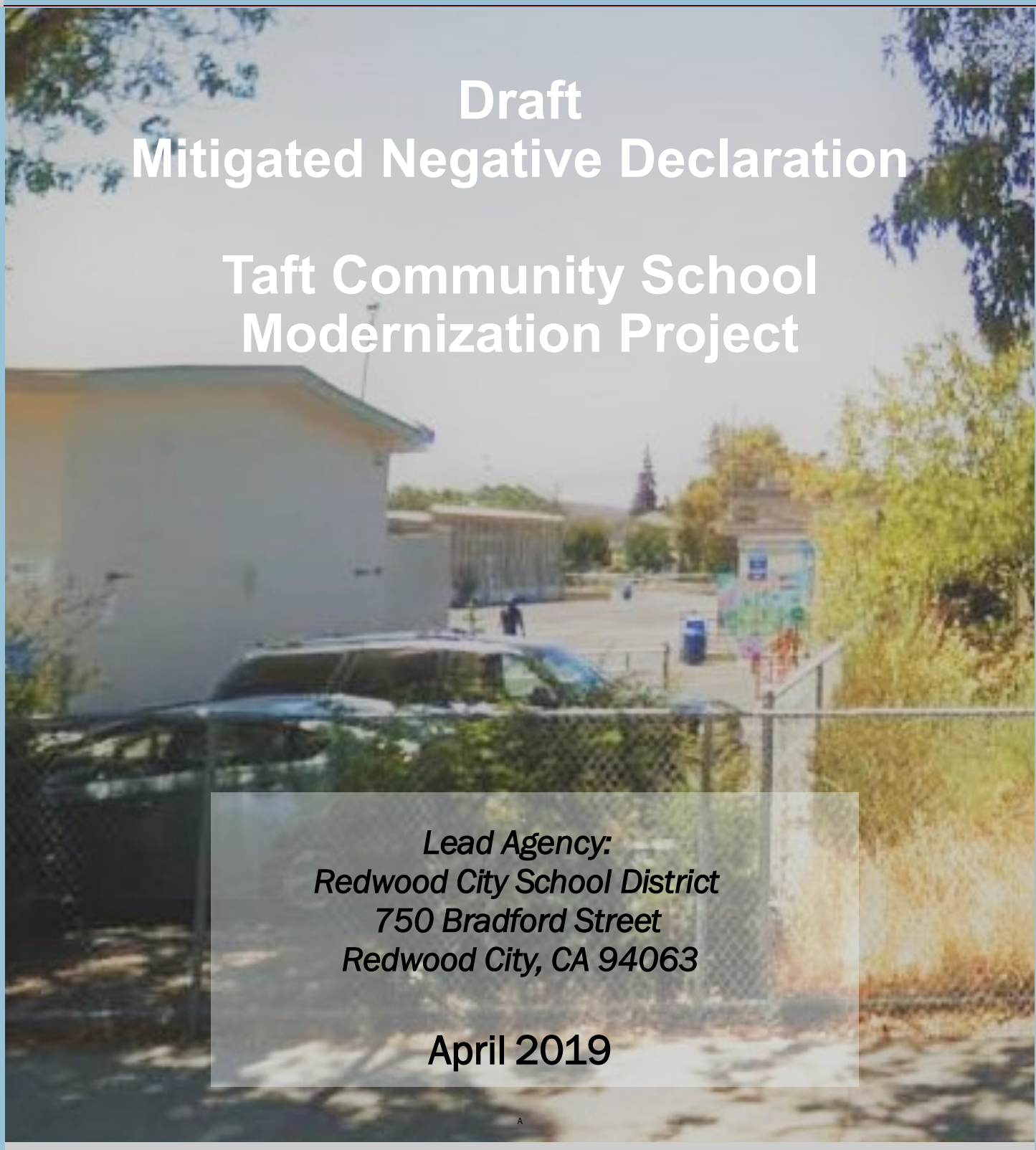

Draft
Mitigated Negative Declaration

Taft Community School Modernization Project

Lead Agency:
Redwood City School District
750 Bradford Street
Redwood City, CA 94063

April 2019

School Site Solutions, Inc.

DRAFT
Initial Study and Mitigated Negative Declaration
Taft Community School Modernization Project

Redwood City School District
750 Bradford Street
Redwood City, CA 94063
Contact: Dr. John Baker (650) 423-2204

Prepared by:

SSS
School Site Solutions, Inc.
Specializing in K-12 School Site and Facility Consulting

2015 H Street, Sacramento, CA

4/4/2019

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SSS
2015 H Street, Sacramento, CA 95811
916.930.0736 P
916.930.0788 F

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INTRODUCTION

The Redwood City School District (RCSD) is proposing to modify the existing Taft Community School and construct a new two-story classroom building and supporting facilities, located at 903 10th Avenue, Del Ora, Redwood City, 94062. Residential developments are located north of the Site, Bay Road is South of the Site, 8th Avenue lies west of the Site, and 10th Avenue is East of the site. The land is owned by the Redwood City School District; APN 055-063-130 with total acreage of 7.56. Pursuant to the California Environmental Quality Act (CEQA; *Public Resources Code* Section 21000, et seq. and CEQA Guidelines), RCSD has prepared this Initial Study (IS) to consider the potential environmental impacts that might result from the implementation of the proposed modernization and new construction school project.

Redwood City School District is the Lead Agency for CEQA compliance on this project. The proposed Project could potentially qualify for a Notice of Exemption (NOE) since the scope includes minor additions to existing schools, and the addition does not increase the original student capacity by more than 25% or 10 classrooms. However, a Mitigated Negative Declaration (MND) was chosen as the appropriate CEQA compliance document for this project in abundance of caution. Based on results of the Phase 1 Environmental Site Assessment, the RCSD has determined that the project scope, including the proposed removal of trees, the proposed addition of a two-story classroom, the proposed relocation of drop-off and pick-up zones, and the proposed relocation of parking area, could potentially result in significant impacts. As a result, a Mitigated Negative Declaration is the appropriate CEQA action for this project.

The existing Project Site includes (3) single-story permanent classroom buildings (with a staff lounge and teacher work room), a library and technology lab, one portable structure and a portion of a second portable structure (housing the Taft Child Development Center and Taft Family Center, respectively), an unpaved garden/outdoor classroom area including several small storage structures, and associated landscaping, play areas, and asphalt-paved play, lunch, parking, and driveway areas. Modernization of the Site will include new electrical transformers and main switch gears, door hardware upgrades, CCTV and fire alarm upgrades to buildings A, B, C, E, G, and H. Buildings D and F will be replaced with a new two-story library/classroom/administrative building, and a new parking lot. Demolition will include five classrooms (Library building D, and family center building F), a staff lounge, the staff workroom, the existing library, and the child development center. The total number of classrooms to be constructed are six; a net increase of one classroom.

INITIAL STUDY FINDINGS

Project Title: Taft Community Modernization Project

2. **Lead Agency Name and Address:**
Redwood City School District
750 Bradford Street
Redwood City, CA 94063

3. **Contact Person and Phone Number:**
Dr. John Baker
(650) 423-2204

4. **Project Location:**
The Project Site is located at 903 10th Avenue, Redwood City, CA 94063, as shown in **Figures 1** through **Figure 3**, **Appendix A**, and **Appendix B**.

5. **Project Sponsor's Name and Address:**
Same as Lead Agency

6. **General Plan Designation:**
Schools

7. **Zoning Designation:**
R-2 (Residential Duplex)

8. Description of Project:
The Project proposes modernization, new construction, and demolition of the existing Taft Community School. Modernization of the Site will include new electrical transformers and main switch gears, door hardware upgrades, closed circuit television upgrades, and fire alarm upgrades to classroom Buildings A, B, C, E, G, and multiuse building H, along with a new walk-in cooler in the kitchen space of Building H. Library Building D, and family center Building F will be demolished and replaced with a new two-story library/classroom/administrative building with a media center, and parking lot. New construction consists of 23,307 SF library/classroom/administration building including covered walkways and patio, a phased parking lot with 60 spaces (an increase of 28 parking spaces), and an amphitheater with courtyard. Future vehicle charging station pathways have been incorporated into design plans, along with clean air vehicle designation parking, operable windows for passive cooling, and storm water retention basins. Two new high/low drinking fountains will be installed at the Project Site per Americans with Disabilities Act (ADA) requirements. Replacement restrooms will be constructed consisting of one girl's restroom, one boy's restroom and five new gender-neutral single occupancy restrooms. The girl's restroom will consist of three new toilets and two new lavatories. The boy's restroom will include two new toilets, and two new

lavatories. Each single occupancy restroom will have one toilet and one lavatory. Demolition will include five classrooms, a staff lounge, staff workroom, library, and the child development center; approximately 19,600 SF of demolition. The total number of classrooms to be constructed are six. Demolition and replacement will result in a net increase of one classroom where the total classroom count will be thirty-one with a masterplan capacity of 775 after project completion.

The project will be completed in two phases to allow for demolition of existing buildings after occupancy of replacement buildings. Phase 1 includes demolition of the existing child development center, library building D, the existing staff rooms in Buildings B and C, and the existing parking lot with site elements. Construction of the first portion of the new parking lot is scheduled during this phase and would result in 27 additional spaces; including 1 standard accessible space and 1 ADA van accessible space. The parking lot will be located east of Building G, adjacent to Tenth Avenue. A new fire lane access outlet will be provided approximately 20 feet north of the existing Tenth Avenue entrance road. The new two-story library/classroom/administrative building with media center (Building D), and the new courtyard with amphitheater will also be constructed in this phase. New Building D will run parallel to Tenth Avenue and associated courtyard and amphitheater will be between Building D and existing Building B. Phase 2 includes demolition of the family center Building F and construction of the remaining parking lot. This will complete the new parking lot for a total of 60 spaces; including 3 standard accessible spaces and 3 ADA van accessible spaces for a net gain of 28 spaces.

Operation hours of the school are not expected to change. Current staffing and enrollment numbers are expected to remain the same. Kindergarteners are divided into two groups; Group A and B. Group A is in class from at 8:15 am-1:00 pm and Group B is in class from 9:15 am-2:00 pm. All Grade 1-5 students begin school at 8:15 am. First-3rd grade students are released at 2:30 while 4th and 5th graders are released at 2:45 pm. Kindergarteners have lunch from 11:50-12:25 pm; 1st - 5th graders have lunch from 12:25-1:10 pm.

Construction is estimated to begin in Fall of 2019, dependent on Division of the State Architect approval, with a construction length of approximately eighteen months. Interim housing will not be necessary during project activities.

9. **Surrounding Land Uses and Setting:**
The Site is in an area of residential and highly developed land. The school is located near Andrew Spinas Park (0.5 miles northwest), Sports House (0.8 miles southwest), and North Fair Oaks Community Park (1.1 miles southwest).

10. **Other public agencies whose approval is required:**
As a condition for receiving State matching funds for acquisition and construction of the new facilities, RCSD will obtain site and plan approvals from the California Department of Education (CDE) for modernization and plan approval from the Division of the State Architect (DSA). RCSD would comply with applicable local, state and federal

regulations as related to permits needed for project construction and implementation. The District adopted Resolution No. 13 pursuant to California Government Code Section 53094 which authorized the District to exempt itself from city or county zoning ordinances; see **Appendix E**. Multiple agencies will be included in the mailing list for review of the CEQA document by the State Clearinghouse. These agencies include the Air Resource Board (Air Quality), California Highway Patrol (Traffic), Caltrans District #4 (Traffic), Caltrans Planning (Traffic), Department of Conservation (Biological Resources), Department of Education (Schools), Fish and Wildlife Region #3 (Biological Resources), Native American Heritage Commission (Tribal Cultural Resources), Office of Historic Preservation (Cultural Resources), Office of Public School Construction (Schools), Department of Parks and Recreation (Recreation), Regional Water Quality Control Board Area #2 (Hydrology), State Water Resources Control Board (Hydrology), Department of Toxic Substances (Hazards and Hazardous Materials), and the Department of Water Resources (Hydrology).

11. **Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, has consultation begun?**

The Redwood City School District sent a Consultation Request Form to the Native American Heritage Commission (NAHC) on July 11, 2017 requesting CEQA Tribal Consultation List (AB 52) and a Sacred Lands File check. The NAHC responded with a consultation list of tribes within the boundaries of the Site. Five different tribes were listed in the consultation letter and the District mailed tribal notification letter to the corresponding tribes on October 17, 2017. The Districted did not receive requests for consultation. (See Section XVIII. Tribal Cultural Resources).

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages:

Environmental Factors Potentially Affected

	1. Aesthetics		2. Agriculture/Forestry Resources		3. Air Quality
	4. Biological Resources		5. Cultural Resources		6. Energy
	7. Geology/Soils		8. Greenhouse Gas Emissions		9. Hazards/Hazardous Materials
	10. Hydrology/Water Quality		11. Land Use/Planning		12. Mineral Resources
	13. Noise		14. Population/Housing		15. Public Services
	16. Recreation		17. Transportation		18. Tribal Cultural Resources
	19. Utilities/ Service Systems		20. Wildfire		21. Mandatory Findings of significance

SSS
2015 H Street, Sacramento, CA 95811
916.930.0736 P
916.930.0788 F

DETERMINATION

On the basis of this initial evaluation:

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

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

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

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

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

On behalf of the Redwood City School District:

Donald Dias — April 9th 2019
Print Name — Date

Donald Dias — April 9th 2019
Signature — Date

INITIAL STUDY CHECKLIST

1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simple does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis.

2) All answers must take into account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less that significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there is one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

4) Negative Declaration: "Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analysis, as described in (5) below, may be cross-referenced).

5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, and effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:

   (a) Earlier Analysis Used. Identify and state where they are available for review.
   (b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
   (c) Mitigation Measures. For effects that are "Less Than Significant with Mitigation Measures Incorporated, "describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site specific conditions for the project.

6) Lead agencies are encouraged to incorporate into the checklist reference to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to previously prepared or outside document should, where appropriate, include a reference to the page or pages where the is substantiated.

7) Supporting Information Sources: A source list should be attached, and other sources used, or individuals contacted should be cited in the discussion.

8) This is only a suggestion form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.

9) The explanation of each issue should identify:
a) the significance criteria or threshold, if any, used to evaluate each question; and, b) the mitigation measure identified, if any, to reduce the impact to less than significant.

I. AESTHETICS

I. AESTHETICS—Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?			X	
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				X
c) Substantially degrade the existing visual character or quality of the Project Site and its surroundings?			X	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			X	

DISCUSSION: AESTHETICS
The proposed Project would not result in significant adverse impacts to aesthetics. Site plans and Site photos are provided in **Appendix A** and **Appendix B**, respectively.

a) Have a substantial adverse effect on a scenic vista?

Less Than Significant Impact. The Site was built in 1947 and would not significantly change the current view to the public. Views may be obstructed with the development of the two-story library/classroom/administrative building; however, the view is not considered a scenic vista.

b) Substantially damage scenic resources including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact. The Site is not located near any designated State Scenic Highway.

c) Substantially degrade the existing visual character or quality of the Project Site and its surroundings?

Less Than Significant Impact. The Site is zoned as R-2 (Residential Duplex) and designated for Schools. The Project is consistent with the General Plan would not degrade the existing visual character or quality of the site and its surroundings.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less Than Significant Impact. No outdoor lighting that would cause substantial light glare such as stadium lights will be implemented for the Project. Flood lights and other low lights will be incorporated into buildings. Interior lighting is planned for the new two-story library/classroom/administrative building; windows will have shading. All outdoor lighting will be shielded by means of roofing and downward orientation of lighting. No new source of substantial lighting will be implemented; therefore, there will not be an impact to day or nighttime views. See Site plans at **Appendix A**.

II. AGRICULTURAL RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland.

II. AGRICULTURE AND FOREST RESOURCES— Would the project:	**Potentially Significant Impact**	**Less Than Significant with Mitigation Incorporated**	**Less Than Significant Impact**	**No Impact**
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				X
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				X
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				X
d) Result in the loss of forest land or conversion of forest land to non-forest use?				X
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion or forest land to non-forest use?				X

DISCUSSION: AGRICULTURAL RESOURCES

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

No Impact. The Site is not located on Prime Farmland, Unique Farmland, or Farmland of Statewide Importance; the Site is located on Urban and Built-Up Land according to the California Department of Conservation map system.

b) Conflict with zoning for agricultural use, or a Williamson Act?

No Impact. The Project site is owned by the Redwood City School District. The property was determined by the city to be located on residential land and is not on prime farmland, unique farmland, nor is it on farmland of statewide importance. The Project would not conflict with existing zoning for agricultural use, or a Williamson Act contract.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

No Impact. The Site is not located on or near forest lands or timberland of any kind. This is consistent with Redwood City's General Plan.

d) Result in the loss of forestland or conversion of forest land to non-forest use?

No Impact. This does not apply to the site since it is not located on or adjacent to forestland.

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

No Impact. The site is not on forestland or farmland; therefore, will have no impact to forest or farmland use.

III. AIR QUALITY

Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.

III. AIR QUALITY— Would the project:	**Potentially Significant Impact**	**Less Than Significant with Mitigation Incorporation**	**Less Than Significant Impact**	**No Impact**
a) Conflict with or obstruct implementation of the applicable air quality plan?			X	
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?			X	
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?			X	
d) Expose sensitive receptors to substantial pollutant concentrations?			X	
e) Create objectionable odors affecting a substantial number of people?				X

DISCUSSION: AIR QUALITY

Environmental Setting:
The Bay Area Air Quality Management District (BAAQMD) is the responsible agency for Air Quality in Redwood City, San Mateo County. If a project exceeds the identified significance thresholds on emissions cumulatively, the results are considered significantly adverse to air quality impacts. Criteria Air Pollutants and Precursors examined under the BAAQMD were identified as reactive organic gas (ROG), oxides of nitrogen (NOx), respirable particulate matter with an aerodynamic resistance diameter of 10 micrometers or less (PM_{10}), and fine particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less ($PM_{2.5}$).

Organic compounds, such as hydrocarbons, are released when fuels or organic waste material are burned. They are also emitted by consumer products, such as aerosol sprays, and by the evaporation of paints, inks, solvents, and gasoline. Some organic compounds are toxic, including benzene, formaldehyde, and acrolein. Exposure to these compounds poses significant health effects, including cancer risk; chronic diseases of the lungs, liver, and kidneys; and acute eye and respiratory irritation. Organic compounds are significant air pollutants because they react with oxides of nitrogen in the presence of sunlight to form ozone (smog).

Nitrogen oxides are a group of gases that form when nitrogen reacts with oxygen during combustion, especially at high temperatures. These compounds (including nitric oxide and nitrogen dioxide), can contribute significantly to air pollution, especially in cities and areas with high motor vehicle traffic. In the Bay Area, nitrogen dioxide appears as a brown haze. At higher concentrations, nitrogen dioxide can damage sensitive crops, such as beans and tomatoes, and aggravate respiratory problems.

Particulate matter is a complex pollutant composed of an assortment of tiny airborne particles that vary in size and mass (ultrafine, fine, and coarse), physical state (solid or liquid), chemical composition, toxicity, and how they behave in the atmosphere. These particles originate from a variety of man-made and natural sources, including fossil fuel combustion, refining crude oil, residential wood burning and cooking, wildfires, volcanoes, sea salt, and dust. Because they are so small, these particles can bypass the body's natural defenses and penetrate deep into the lungs, bloodstream, brain and other vital organs, and individual cells. Health studies have shown that exposure to PM can have a wide range of negative health effects, including asthma, chronic bronchitis, impaired lung development in children, heart attack, stroke, and premature death. Residential wood burning is the largest source of PM in the Bay Area during the winter.

California Emissions Estimator Model (CalEEMod) was performed using information for the project supplied by DLM/HED Architects. CalEEMod is a statewide land use emissions computer model used to quantify potential criteria pollutants and greenhouse gas emissions during construction and operation activities; see **Appendix C**. CalEEMod was calculated using the following information associated with typical construction projects:

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Additional information can be found in **Appendix C** of this document. Results from the CalEEMod examined criteria pollutants of concern for construction and operational impacts caused by the project. Thresholds of significance for construction impacts were measured in tons per year (tpy) through CalEEMod. BAAQMD thresholds for construction impacts were measured in pounds per day; therefore, CalEEMod results were converted to lbs./day to allow for comparison. The BAAQMD thresholds for construction are 54lbs/day of ROG, 54 lbs./day of NOx, 82 lbs./day of PM10, and 54 lbs./day of $PM_{2.5.}$ CalEEMod results for criteria pollutants were well under the thresholds; 0.88lbs/day of ROG, 2.51lbs/day of NOx, 0.14lbs/day of PM10, and 0.13lbs/day of $PM_{2.5}$; see **Table 1** below.

Table 1: CalEEMod Results and BAAQMD Thresholds -Construction

	ROG lbs./day	NOx lbs./day	PM10 lbs./day	PM2.5 lbs./day
Construction Threshold	54.0	54.0	82.0	54.0
Project Construction Impacts	0.88	2.5	0.14	0.13

The proposed Project would result in less than significant air quality impacts during construction activities. Thresholds of significance for operational activities were measured in tpy and conversion was not necessary. The BAAQMD thresholds for operation are 10tpy of ROG, 10tpy of NOx, 15tpy of PM10, and 10tpy of $PM_{2.5}$. Operational activities of the Project would result in less than significant impacts to air quality. Criteria air pollutants were 0.16tpy of ROG, 0.32tpy of NOx, <0.01tpy of PM10, and <0.01tpy of $PM_{2.5}$; see **Table 2** below. Therefore, construction and operational activities of the Project would not substantiate a need for mitigation measures.

Table 2: CalEEMod Results and BAAQMD Thresholds - Operational				
	ROG tpy	NOx tpy	PM10 tpy	PM2.5 tpy
Operational Threshold	10.00	10.00	15.00	10.00
Project Operation Impacts	0.16	0.32	<0.01	<0.01

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less Than Significant Impact. BAAQMD thresholds were maintained. None of the Criteria Air Pollutants or Precursors exceeded the thresholds; ROG, NOx, PM10, and PM2.5 were well under levels for construction and operational thresholds

b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Less Than Significant Impact. Project construction activities would not create a short-term increase in emissions of pollutants that exceed BAAQMD thresholds. Operational use of the Project Site as a school would not create a significant adverse impact on air quality.

c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

Less Than Significant Impact. The limited nature of construction activities expected to impact air quality suggest incremental emissions associated with the Project would not be significant. Results from the CalEEMod analysis were well below the BAAQMD thresholds signifying that criteria pollutants and greenhouse gas emissions during construction and operation activities would be less than significant.

d) Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact. Sensitive receptors, as defined by the Environmental Protection Agency include, but are not limited to, hospitals, schools, daycare facilities, elderly housing and convalescent facilities. These are areas where the occupants are more susceptible to the adverse effects of exposure to toxic chemicals, pesticides, and other pollutants. Project construction activities will be timed to minimize exposure, to the greatest extent feasible. Additionally, results from the CalEEMod analysis were well below the BAAQMD thresholds signifying that criteria pollutants and greenhouse gas emissions during construction and operation activities would be less than significant.

Activities associated with the soil mitigation plan are discussed in Section IX. Hazards and Hazardous Materials of this document and would require mitigation. However, the anticipated duration of construction activities, size of the Site, and the CalEEMod results suggest construction emissions would be less than significant and mitigation measures associated with construction activities are not required.

e) Create objectionable odors affecting a substantial number of people?

No Impact. The BAAQMD CEQA Guidelines classify a project that could create objectionable odors as including any of the following: wastewater treatment plant, sanitary landfill, transfer stations, composting facilities, petroleum refineries, asphalt batch plants, chemical manufacturing, fiberglass manufacturing, rendering plants, coffee roasters, and painting/coating operations including auto body shops. The proposed project does not include any of these uses.

IV. BIOLOGICAL RESOURCES

IV. BIOLOGICAL RESOURCES—Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?		X		
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?				X
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				X
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery Project Sites?				X
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?			X	
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				X

DISCUSSION: BIOLOGICAL RESOURCES

Environmental Setting:
The Project Site is currently developed land and operates as an existing school site; ground cover consists of paved and turfed areas. Given its developed state, it is unlikely that special status species inhabit the Site. A biological survey report was completed on February 13, 2019 by Padre Associates, Inc.; see **Appendix D**. Special-status species were not observed onsite during field surveys, and review of the California Natural Diversity Database (CNDDB) and Biogeographic Information and Observation System did not indicate recorded occurrences of special-status species on or near the Project site. Results from the biological survey report determined that the San Francisco gartersnake (Thamnophis sirtalis tetrataenia) occurs within the Palo Alto USGS 7.5-minute quadrangle and appears within all queries of the quadrangle regardless of project location. However, this species would not occur onsite due to the lack of suitable habitat. Suitable habitat for the San Francisco gartersnake is identified as densely vegetated ponds near an open hillside where they can sun themselves, feed, and find cover in rodent burrows. The U.S. Fish and Wildlife Service (USFWS) species list identified several federally-listed species that could occur within the region of the Project, however, suitable habitat is not present onsite for any of the federally listed species. Analysis of the likelihood of occurrence for each species identified within CNDDB or the USFWS list was conducted for the Project Site on the basis of species ranges, previous observations, contemporary sightings, and presence of suitable habitat elements on the Site. Three sensitive raptors, White-tailed kite (Elanus leucurus), Cooper's hawk (Accipiter cooperii) and sharp-shinned hawk (Accipiter striatus) were identified as having potential to nest within trees onsite. For specific information regarding federally listed species and corresponding habitats, please see Table 1. "Special-Status Species Potentially Occurring in the Vicinity of the Taft Elementary School Modernization Project" in the Biological Survey Report at **Appendix D**.

The District plans to remove approximately three Palm trees (36", 24", and 8" in diameter), approximately five Eucalyptus trees under 12" in diameter, and one larger than 12" in diameter Chinese Elm tree. Therefore, the biological survey report made the following determination regarding tree removal at the Project Site. Trees proposed for removal could provide nesting habitat for birds protected under the MBTA and California Fish and Game Code (FGC). Additionally, trees not proposed for removal but located adjacent to proposed impact areas with high levels of construction disturbance, could affect the breeding success of birds (particularly raptors) protected under the MBTA an California Fish and Game codes (Sections 3503, 3503.5, and 3800). These laws and regulations prohibit the take, possession, or destruction of birds, their nests, or eggs. Disturbance that causes nest abandonment and/or loss of reproductive effort could be considered a "take." The following mitigation measures were recommended:

MM 1) *Migratory Bird Treaty Act*
Tree removal and construction activities shall be scheduled to commence prior to the beginning of nesting activity (March 1) or after fledging (August 15). If this is infeasible, the District shall retain a biologist to conduct pre-construction surveys between March 1 and August 15 in potential nesting habitat to identify nest sites. Surveys should be conducted within one week of tree removal and the start of construction to identify active nests prior to the initiation of

construction activities. If an active raptor nest is observed within 350 feet of the Project Site, the District shall contact California Department of Fish and Wildlife (CDFW) for guidance and/or establish a 350-foot buffer around the nest tree. If a passerine bird nest is observed within 100 feet of the Project Site, the District shall contact CDFW for guidance and/or establish a 100-foot buffer around the nest tree. If construction activities cannot be prohibited within the established buffers until young have fledged, District consultation with CDFW shall be conducted for a reduced buffer zone based on nesting phenology, site conditions, and recommendation(s) of a biological monitor. The District shall prohibit construction activities in the buffer zone until the young have fledged.

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

Less Than Significant with Mitigation Incorporated. If bird species exist within the Project area, tree removal would be the only source of species displacement. Tree removal or ground-clearing activities could potentially impact nesting birds that are protected under the federal Migratory Bird Treaty Act (MBTA) of 1918 (16 USC 703-711) and FGC (Sections 3503, 3503.5, and 3800). The laws and regulations prohibit the take, possession, or destruction of birds, their nests, or eggs. Disturbance that causes nest abandonment and/or loss of reproductive effort could be considered a "take". Therefore, any tree removal and/or construction activities occurring within the nesting season (March – August), shall be subject to mitigation measure **MM 1)** *Migratory Bird Treaty Act*.

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?

No Impact. There are no identified riparian habitats or significant natural communities within the project area; no wetlands or waters of the U.S. were observed within the Site. This is consistent with the Redwood City general plan and the Biological Survey Report, available at **Appendix D.**

c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact. There are no federally protected wetlands identified or observed within the Project Site; the site is designated as Institution Urban within the City's General Plan.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery Project Sites?

No Impact. As observed during the February 13, 2019, biological site visit, the Site contains highly developed land and does not have suitable habitat to support a wildlife corridor or wildlife nursery site.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less Than Significant Impact. Redwood City has permitting requirements for the removal of local trees. The District plans to remove approximately three Palm trees (36", 24", and 8" in diameter) during phase zero of the Project, approximately five Eucalyptus trees under 12" in diameter, and one larger than 12" in diameter Chinese Elm tree during phase one of the Project. The District has plans to plant new trees for a net gain of 39 trees. However, the District adopted Resolution No. 13 on November 9, 2016 pursuant to California Government Code Section 53094 which authorized the District to exempt itself from city or county zoning ordinances; see **Appendix E**. Therefore, the District can render the local tree ordinances inapplicable to the Project since the Site will be used for educational purposes.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact. The Site is not located within a habitat conservation plan.

V. CULTURAL RESOURCES

V. CULTURAL RESOURCES— Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?			X	
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?		X		
c) Directly or indirectly destroy a unique paleontological resource or Project Site or unique geologic feature?		X		
d) Disturb any human remains, including those interred outside of formal cemeteries?		X		

DISCUSSION: CULTURAL RESOURCES

Environmental Setting:
For a cultural resource to be considered a historical resource (i.e., eligible for listing in the California Register of Historical Resources), it generally must be 50 years or older. Under the California Environmental Quality Act (CEQA), historical resources can include pre-contact (i.e., Native American) archaeological deposits, historic-period archaeological deposits, historic buildings, and historic districts.

Based on the significance criterion identified above, the proposed Project could result in significant adverse impacts to cultural resources during ground disturbing activities if such activities would cause a substantial adverse change in the significance of a historical or cultural resource. A substantial adverse change in the significance of a historical resource would occur from its demolition, destruction, relocation, or alteration such that the significance of the resource would be materially impaired (CEQA Guidelines Section 15064.5(b)(1)). Mitigation measures shall be incorporated to avoid significant or adverse impacts to archaeological resources, paleontological resources, and impacts to any human remains. In the event that human skeletal remains are encountered, the applicant is required to immediately notify the County Coroner. Upon determination by the County Coroner that the remains are Native American, the coroner shall contact the California Native American Heritage Commission, pursuant to subdivision (c) of section 7050.5 of the Health and Safety Code and the County Coordinator of Indian affairs. No further disturbance of the site may be made except as authorized by the

County Coordinator of Indian Affairs in accordance with the provisions of state law and this chapter. If artifacts are found on the site, a qualified archaeologist shall be contacted along with the County Planning Office. No further disturbance of the artifacts may be made except as authorized by the County Planning Office.

The Redwood City School District sent a Consultation Request Form to the Native American Heritage Commission (NAHC) on July 17, 2017, requesting CEQA Tribal Consultation List (AB 52) and a Sacred Lands File check. The NAHC responded with a consultation list of tribes within the boundaries of the Site. Five different tribes were listed in the consultation letter and the District mailed tribal notification letter to the corresponding tribes on October 17, 2017. The Districted did not receive requests for consultation. (See Section XVIII. Tribal Cultural Resources).

a) Cause a substantial adverse change in the significance of a historical resource as defined in 15064.5?

Less Than Significant Impact. There are four permanent structures originally built in 1947, 1948, 1950, and 1953; however, they were modernized in 1993 and are not considered historical resources. The Project Site is not of historical significance. This is consistent with the Office of Historic Preservation database and the National Register of Historic Places database.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

Less Than Significant with Mitigation Incorporated. Although no archeological resources are identified within the Site, unidentified archaeological resources could be uncovered during construction. Implementation of the following mitigation measure will ensure that the impact to archaeological resources remains less than significant.

MM 2) *Archaeological Signage*
In accordance with guidelines section §15064.5, the School District will ensure that the following language is included in all construction contracts and permits:

> "If archaeological resources or human remains are accidentally discovered during construction, work will be halted within 50 feet of the find until it can be evaluated by a qualified professional archaeologist. If the find is determined to be significant, appropriate mitigation measures will be formulated and implemented."

MM 3) *Communication of Archaeological Site Deposit Indicators*
All construction personnel involved in site clearing, subsequent grading, and trenching will be informed of the potential for subsurface cultural resource unearthing. Indicators of archaeological site deposits include but are not limited to the following:

> Soil that is darker than the surrounding soils, evidence of fire (ash, fire altered rock and earth, carbon flecks, concentrations of stone, bone and shellfish, artifacts of these materials and animal or human burials.

MM 4) *In the Event of Cultural Resources Discovered*
If cultural resources are encountered during Site grading, or construction activities, all work shall be halted within 50 feet of the discovery and RCSD shall engage a qualified archaeologist to assess and protect the discovery as appropriate. No further soil disturbance shall occur within the 50-foot buffer until the preceding assessment has been completed and the resource has been recovered.

Implementation of mitigation measures **MM 3)** *Communication of Archaeological Site Deposit Indicators* and **MM 4)** *In the Event of Cultural Resources Discovered* would reduce potential impacts to archeological and cultural resources to a less than significant level by providing procedures specifically designed to ensure limited disturbance and proper handling in the event of unanticipated or accidental discovery.

c) Directly or indirectly destroy a unique paleontological resource or Project Site or unique geologic feature?

Less Than Significant with Mitigation Incorporated. There are no paleontological resources or unique geologic features identified or observed within the Site. However, construction work would result in ground-disturbing activities that could potentially reveal buried or otherwise obscured paleontological deposits. If any deposits exist, ground-disturbing activities could result in the significant loss of integrity of the deposits and the loss of information. To ensure that any subsurface paleontological resources are not adversely affected, the following mitigation measure will be implemented:

MM 5) *Paleontological Construction Contracts and Permits Language*
Due to the possibility that significant buried paleontological resources may be found during construction activities, the Redwood City School District will ensure that the following language is included in all construction contracts and permits:

"If paleontological resources are encountered during subsurface construction activities, all work within 50 feet of the discovery will be redirected until a qualified paleontologist can evaluate the finds and make recommendations. If the paleontological resources are found to be significant, they will be avoided by project construction activities and recovered by a qualified paleontologist. Upon completion of the recovery, a paleontological assessment will be conducted by a qualified paleontologist to determine if further monitoring for paleontological resources is required. The assessment will include:

I) The results of any geotechnical investigation prepared for the project site;
2) Specific details of construction plans for the project site;
3) Background research; and
4) Limited subsurface investigation within the project site.

If a high potential to encounter paleontological resources is confirmed, a monitoring plan of further project subsurface construction will be prepared in conjunction with this assessment. After project subsurface construction has ended, a report documenting

monitoring, methods, findings, and further recommendations regarding paleontological resources will be prepared."

d) Disturb any human remains, including those interred outside of formal cemeteries?

Less Than Significant with Mitigation Incorporated. Although there are no known human remains at the project site, it is possible that unknown resources could be encountered during project construction, specifically during ground disturbing activities such as excavating and grading. Development of the project site could uncover human remains, including those that occur outside of formal cemeteries. Therefore, during construction activities, the following mitigation will be implemented:

MM 6) *Policies and Procedures for Inadvertently Discovered Human Remains*
Because site disturbance may adversely impact undocumented human remains or unintentionally discover significant historic or archaeological materials, the following policies and procedures for treatment and disposition of inadvertently discovered human remains or archaeological materials will apply. If human remains are discovered, it is probable they are the remains of Native Americans.

a) If human remains are encountered, these remains would be treated in accordance with Section 7050.5 of the California Health and Safety Code and Section 5097.98 of the Public Resources Code, as appropriate. With these regulations in place, no impact on human remains is anticipated.
b) In the event that known or suspected Native American remains are encountered, or significant historic or archaeological materials are discovered, ground-disturbing activities will be immediately stopped. Examples of significant historic or archaeological materials include, but are not limited to, concentrations of historic artifacts (e.g., bottles, ceramics) or prehistoric artifacts (chipped chert or obsidian, arrow points, ground stone mortars and pestles), culturally altered ash-stained midden soils associated with pre-contact Native American habitation sites, concentrations of fire-altered rock and/or burned or charred organic materials, and historic structure remains such as stone-lined building foundations, wells or privy pits. Ground-disturbing project activities may continue in other areas that are outside the discovery locale.
c) An "exclusion zone" where unauthorized equipment and personnel are not permitted will be established (e.g., taped off) around the discovery area plus a reasonable buffer zone by the Contractor Foreman or authorized representative, or party who made the discovery and initiated these protocols, or if on-site at the time or discovery, by the Monitoring Archaeologist (typically 25-50ft for single burial or archaeological find).
d) The discovery locale will be secured (e.g., 24-hour surveillance) as directed by the School District if considered prudent to avoid further disturbances.
e) The Contractor, Foreman, authorized representative, or party who made the discovery and initiated these protocols will be responsible for immediately contacting by telephone the parties listed below to report the find and initiate the consultation process for treatment and disposition:
   • The Redwood City School District Superintendent, John Baker (650) 482-2200
   • The Contractor's Point(s) of Contact

- The Coroner of the County of San Mateo (if human remains found) (650) 312-5562
- The Native American Heritage Commission (NAHC) in Sacramento (916) 373-3710

f) The Coroner has two working days to examine the remains after being notified of the discovery. If the remains are Native American, the Coroner has 24 hours to notify the NAHC.

g) The NAHC is responsible for identifying and immediately notifying the Most Likely Descendant (MLD). (Note: NAHC policy holds that the Native American Monitor will not be designated the MLD.)

h) After notification by the NAHC, the MLD will be granted permission to inspect the discovery site if they so choose.

i) After notification by the NAHC, the MLD may recommend to the Administrator of District Support Services the recommended means for treating or disposing, with appropriate dignity, the human remains and any associated grave goods. The MLD has 48 hours after accessing the Site to make recommendations to the property owner as specified in Public Resources Code section 5097.98 (a). The recommendation may include the scientific removal and nondestructive or destructive analysis of human remains and items associated with Native American burials.

j) If the MLD recommendation is rejected by the School District the parties will attempt to mediate the disagreement with the NAHC. If mediation fails, then the remains and all associated grave offerings will be reburied with appropriate dignity on the property in a location not subject to further subsurface disturbance.

VI. ENERGY

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

DISCUSSION: ENERGY

Environmental Setting:
The San Mateo County Energy Efficiency Climate Action Plan (EECAP) provides a path for achieving local energy efficiency by 2020. The EECAP provides technical analysis to demonstrate the impact of the County's policies and programs on GHG emissions. Maintaining the EECAP separately from the General Plan provides flexibility to the County to assess and revisit the effectiveness of EECAP measures and actions toward this element's overall goals and policies. As a stand-alone plan, the EECAP also has the flexibility to integrate near-term opportunities, new technologies, and research. Together, the General Plan and EECAP function as part of the County's toolkit to achieve resilience to climate change and long-term GHG reductions. The County's EECAP follows both the State CEQA Guidelines (Section 15183.5(b)) and the BAAQMD's guidelines by incorporating the standard elements of a Qualified GHG Reduction Strategy into the EECAP.

During construction there would be a temporary consumption of energy resources for the movement of equipment and materials, but the duration would be limited, and the area of construction would be minimal. Compliance with local, state, and federal regulations, which limit engine idling times and require recycling construction debris, would reduce short-term energy demand during the project's construction to the extent feasible and project construction would not result in a wasteful or inefficient use of energy. There are no unusual project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities or use of equipment that would not conform to current emissions standards and related fuel efficiencies. Furthermore, individual project elements are required to be consistent with City policies and emissions reductions strategies and would not consume energy resources in a wasteful or inefficient manner.

Based on 2017-2018 Pacific Gas and Electric utility bills for the Taft Community School, the average energy consumption prior to Project impacts is approximately 288,554 kilowatts-hour (kw-hr). Estimated energy consumption will be approximately 331,837 kw-hr after project completion; an increase of approximately 15% compared to existing conditions. However, the Project would comply with all Title 24 requirements. Title 24 is a collection of energy standards that addresses energy efficiency of new (and altered) homes and commercial and school buildings. Since 1978, California residents are required to meet the energy efficiency standards contained in Title 24, Part 6 of the California Code of Regulations. Energy efficiency reduces energy costs, increases reliability and availability of electricity, improves building occupant comfort, and reduces impacts to the environment.

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less Than Significant Impact. The Project is not expected to cause wasteful, inefficient, or unnecessary consumption of energy resources during construction or operation. Standard construction activities shall be utilized. The operational use of the Site for educational purposes is necessary and would not create any more of an impact than currently produced. Additionally, Site plans have been developed to incorporate energy conservation strategies. Future vehicle charging station pathways have been incorporated into design plans, and sunshade panels shall be utilized for the project along with operable windows for passive cooling; see Site Plans at **Appendix A**.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency

Less Than Significant Impact. Redwood City utilizes solar energy as their renewable energy source and offers programs such as Sunshares to make solar panels and/or electric vehicles more affordable. The Project would support the use of electric vehicles through future charging stations. Incorporation of sunshade panels and operable windows for passive cooling would increase the energy efficiency of the new facilities to be constructed; see Site plans, **Appendix A.** These inclusions are consistent with Redwood City's energy goals and would not conflict or obstruct the County's plans for energy efficiency.

VII. GEOLOGY AND SOILS

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

DISCUSSION: GEOLOGY AND SOILS

Environmental Setting:
A Geologic and Safety Hazards Evaluation was performed by McCloskey Consultants on July 17, 2017; see **Appendix F**. The study identified soils within the Site vicinity as Urban Land; partially hydric, clayey soils with a high-water table or located shallow to an impervious layer with a slow infiltration rate. Additionally, a Geotechnical Evaluation and Geologic Hazard Assessment was performed by Ninyo & Moore in February of 2018; see **Appendix G**.

Construction plans for new buildings at California schools must be submitted to the Division of State Architect (DSA) for review. DSA ensures that construction plans are, at a minimum, in compliance with the 2016 California Building Code (Title 24, California Code of Regulations), which provides for stringent construction requirements on projects in areas of high seismic risk. The project design and construction are required to conform with, or exceed, current best standards for earthquake-resistant construction in accordance with the 2016 California Building Code and with the generally accepted standards of geotechnical practice for seismic design in Northern California. The 2016 California Building Code also requires that a site-specific geotechnical investigation report be prepared by a licensed professional to evaluate geologic and seismic hazards for proposed developments of one or more buildings greater than 4,000 square feet, such as the proposed project. The purpose of a site-specific geotechnical investigation is to identify seismic and geologic conditions and potential geohazards, such as surface fault rupture, ground shaking, liquefaction, differential settlement, lateral spreading, expansive soils, and slope stability, that need to be addressed with specific design approaches and elements. Requirements for the geotechnical investigation are presented in Chapter 16 “Structural Design” and Chapter 18 “Soils and Foundation” of the 2016 California Building Code. In addition, the California Building Code and California Education Code, Section 17212.5, requires school districts to submit geohazard reports for new structures on existing school sites and additions and alterations to existing buildings. A geohazard report is required to analyze any geologic condition that is a potential danger to life and property, including, but not limited to, ground shaking, surface rupture, liquefaction, tsunami, and landslides. Geohazard reports for new buildings at California schools must be submitted to the California Geological Survey agency for review and acceptance, and, subsequently, to the DSA for review.

The Field Act, contained in Education Code Sections 17280-17317 and 80030-81149, adds additional seismic safety requirements for California schools. The Field Act includes requirements for seismic design standards, plan review, construction inspections, and testing, which are overseen by the DSA through plan review, permitting, and inspection of schools under construction.

a.) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

i.) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Less Than Significant Impact. The Project Site is not located within a mapped Earthquake Fault Hazard Zone and is not within an Alquist-Priolo Earthquake Fault Zone. Therefore, the potential for risk of loss, injury, or death from a fault surface rupture is low; see Geotechnical Evaluation and Geologic Hazard Assessment at **Appendix G.**

ii.) Strong seismic ground shaking?

Less Than Significant with Mitigation Incorporated. According to the Geological and Safety Hazards Evaluation, the Site is located in a seismically active area and structures on the Site are likely to be subject to moderate ground shaking. Therefore, the following mitigation measure shall be implemented.

MM 7) *Incorporation of the Geotechnical Evaluation and Geologic Hazard Assessment Recommendations*

Due to the significant potential for strong ground motion at the Project Site, the District shall implement section 10.2 of the Geotechnical report performed by Ninyo & Moore Geotechnical & Environmental Sciences Consultants. The RCSD shall incorporate the geotechnical recommendation for design and construction of the proposed project. This includes earthwork recommendations, seismic design criteria, foundation recommendations, retaining wall, exterior flatwork, concrete, moisture vapor retarder, and surface drainage and site maintenance; see Geotechnical Evaluation and Geologic Hazard Assessment at **Appendix G**.

iii.) Seismic-related ground failure, including liquefaction?

Less Than Significant Impact. The Geotechnical evaluation found liquefaction and subsidence to be less than significant due to the relatively flat topography and lack of free-face condition at the site; see Geotechnical Evaluation and Geologic Hazard Assessment at **Appendix G**

iv.) Landslides?

Less Than Significant Impact. According to results from the Geologic and Safety Hazards Evaluation, the potential for landslides or the failure of natural slopes to impact the Site are low; see Geotechnical Evaluation and Geologic Hazard Assessment at **Appendix G.**

b.) Result in substantial soil erosion or the loss of topsoil?

Less Than Significant with Mitigation Incorporated. Slopes shall be vegetated or armored to reduce the potential for erosion as stated in Geotechnical Evaluation, and **MM 7)** *Incorporation of the Geotechnical Evaluation and Geologic Hazard Assessment Recommendations* shall be implemented; see Geotechnical Evaluation and Geologic Hazard Assessment at **Appendix G**.

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

Less Than Significant Impact. Results from the Geotechnical evaluation found landslides, lateral spreading, subsidence, liquefaction and collapse to be less than significant. This is due to the depth and relative thickness of the liquefiable layers, and the relatively flat topography of the Project Site; see Geotechnical Evaluation and Geologic Hazard Assessment at **Appendix G.**

d.) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

Less Than Significant with Mitigation Incorporated. Geotechnical evaluation of the Site found the expansion index of the near-surface soil to be 81; characteristics of medium expansion. Therefore, the following mitigation measure shall be implemented; see Geotechnical Evaluation and Geologic Hazard Assessment at **Appendix G.**

MM 8) *Expansive Soils*
To Reduce the potential for differential movement and distress, the recommendations provided in the Geotechnical Evaluation and Geologic Hazard Assessment performed by Ninyo & Moore shall be implemented to improve shrink/swell behavior for remedial grading, foundation embedment depths, and subgrade preparation during project execution; see section 10 of the Geotechnical report, attached hereto as **Appendix G**.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

Less Than Significant Impact. The Project would not utilize a septic system or alternative waste water disposal system.

VIII. GREENHOUSE GAS EMISSIONS

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

DISCUSSION: GREENHOUSE GAS EMISSIONS

Environmental Setting:
Climate change refers to change in the Earth's weather patterns, including the rise in temperature due to an increase in heat-trapping Greenhouse Gas Emissions GHGs in the atmosphere. According to the Bay Area Air Quality Management District (BAAQMD 2017), some of the potential effects of increased GHG emissions and the associated climate change may include loss in snow pack (affecting water supply), sea level rise, more frequent extreme weather events, more large forest fires, and more drought years. In addition, climate change may increase electricity demand for cooling, decrease the availability of hydroelectric power, and affect regional air quality and public health.

In 2006, the California State Legislature passed the California Global Warming Solutions Act (Assembly Bill [AB] 32), which requires the California Air Resources Board (CARB) to develop and implement regulatory and market mechanisms that will reduce GHG emissions to 1990 levels by 2020. In 2016, the State Legislature adopted Senate Bill (SB) 32, which requires further reduction of GHG emissions to 40 percent below the 1990 level by 2030. In addition, Executive Order S-3-05 set a GHG reduction goal of 80 percent below 1990 levels by 2050.

The primary GHG emissions of concern are carbon dioxide, methane, and nitrous oxide. Other GHGs of concern include hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride, but their contribution to climate change is less than 1 percent of the total GHGs that are well mixed (i.e., that have atmospheric lifetimes long enough to be homogeneously mixed in the troposphere) (Intergovernmental Panel on Climate Change, 2013). Each GHG has a different global warming potential. For instance, methane traps about 21 times more heat per molecule than carbon dioxide. As a result, emissions of GHGs are reported in metric tons of carbon dioxide equivalents (CO2e), where each GHG is weighted by its global warming potential relative to carbon dioxide. Carbon dioxide emissions dominate the GHG inventory in the San

Francisco Bay Area Air Basin, accounting for more than 90 percent of the total CO2e emissions reported.

Given the overwhelming scope of global climate change, it is not anticipated that a single development project would have an individually discernible effect on global climate change. It is more appropriate to conclude that the greenhouse gas emissions generated by the proposed project would combine with emissions across the state, nation, and globe to cumulatively contribute to global climate change. The primary GHG associated with development projects is carbon dioxide, which is directly generated by fuel combustion (vehicle trips, use of natural gas for buildings) and indirectly generated by use of electricity.

The City Council adopted the current Climate Action Plan on Earth Day, April 22, 2013. The Plan is a roadmap to achieving the City's General Plan target of a 15% reduction in greenhouse gas (GHG) emissions below 2005 levels by 2020. The City is now undertaking an update of the plan in order to carry the City through its approaching horizon year of 2020 and to align with State GHG emissions goals for 2030 - a 40% reduction in emissions from 2005 levels. In order to support the City's plans, RCSD has complied with the BAAQMD standards and included energy conservation strategies into project design such as pathways for future vehicle charging stations.

The BAAQMD analyzes carbon dioxide equivalent (CO_2e) levels for determining non-stationary sources operational-related impacts on the environment. The threshold is set at 1,100 MT/year for operational related activities; construction activities are not evaluated under BAAQMD. The school is considered a non-stationary source since it will be a public facility. A brief discussion of each environmental topic is included below.

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less Than Significant Impact. The operational emission levels were under the threshold limit of 1,100 MT/yr.; CO2 levels for the project were calculated to be 294.1MT/yr. according to CalEEMod results. There is no threshold of significance for construction related activities; therefore, no significant impact is expected for operational-related activities or construction-related activities; see CalEEMod Analysis at **Appendix C**.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less Than Significant Impact. Results from the CalEEMod estimator showed that Project to be within the regulations set up for reduction of greenhouse gases. Energy efficiency incorporation of Title 24 are consistent with the City's plans for GHG reduction; see CalEEMod Analysis at **Appendix C**.

IX. HAZARDS AND HAZARDOUS MATERIALS

IX. HAZARDS AND HAZARDOUS MATERIALS— Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?		X		
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?		X		
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?		X		
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				X
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?				X
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?				X
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				X
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?				X
i) Be located within 1,500 feet of a high-pressure pipeline that can pose a safety hazard?			X	

DISCUSSION: HAZARDS AND HAZARDOUS MATERIALS

Environmental Setting:
Results from the Phase 1 Environmental Site Assessment, completed on June 30, 2017, identified the potential for Naturally Occurring Pesticides (NOA) and lead at the Site; see Phase 1 Environmental Site Assessment in **Appendix H**. A Preliminary Environmental Assessment (PEA) was prepared in February of 2018 to identify techniques and methodology for site sampling and analyses regarding contaminated soil; see **Appendix I**. Department of Toxic Substance Control (DTSC) oversight was requested by the District. However, due to the small size and nature of the project, DTSC oversight was determined unnecessary, and a Soil Mitigation Plan (SMP) was implemented in place of a Removal Action Workplan; see **Appendix J**.

Soil Mitigation Plan Impacts:
Results from the SMP identified organochlorine pesticides, arsenic, and cobalt as Contaminants pf Concern (COC) in Site soil. Concentrations of cobalt were associated with naturally-occurring conditions; additional analysis is necessary to determine impacts. Elevated background soil concentrations of cobalt are commonly found in ultramafic rocks along with elevated nickel and chromium. Ultramafic rocks were identified in the baserock material underlying the Site. Therefore, baserock in the areas where elevated cobalt was detected will be tested for naturally-occurring asbestos prior to the remediation activities. Analysis will be conducted through polarized light microscopy (PLM) in accordance with California Air Resources Board (ARB) Method 435 and a 400-point count, with a reporting limit of 0.25% by counted particle. The analysis of the baserock will be performed to determine if asbestos dust monitoring will be needed during remediation activities.

Organochlorine pesticides, including technical chlordane and heptachlor, and arsenic were confirmed as COCs. Technical chlordane belongs to a group of organochlorine pesticides called cyclodiene insecticides (this group also includes aldrin, endrin, heptachlor, and endosulfan). Cyclodiene insecticides historically were used as soil insecticides and for termite control due to their stability in soil and relative stability when exposed to sunlight. Heptachlor is a manufactured chemical that was used for killing insects in homes, in buildings, and on food crops. It has not been used for these purposes since 1988. Heptachlor is both a breakdown product and a component of the pesticide chlordane (approximately 10% by weight). Heptachlor epoxide is a white powder. It was not manufactured and was not used as an insecticide like heptachlor. Bacteria and other organisms break down heptachlor to form heptachlor epoxide. About 20% of heptachlor is changed within hours into heptachlor epoxide in the environment and in organisms. Arsenic is a naturally-occurring element widely distributed in the earth's crust. In the environment, arsenic is combined with oxygen, chlorine, and sulfur to form inorganic arsenic compounds. Arsenic in animals and plants combines with carbon and hydrogen to form organic arsenic compounds. Organic arsenic compounds have been used as pesticides and herbicides.

The identified COCs and associated cleanup goals are summarized in the **Table 3** below:

Table 3: Proposed Site Cleanup Goals		
Compound	**Highest Concentration Detected (mg/kg)**	**Goal (mg/kg)**
Technical Chlordane	2.81	0.44
Heptachlor	0.298	0.070
Arsenic	8.84	5.5

Organochlorine pesticides and arsenic contaminated soil shall be removed from the site using excavation techniques outlined in the SMP; approximately 115 cubic yards of soil shall be removed. The following mitigation measures shall be implemented to prevent and reduce the exposure of contaminated soils.

MM 9) *SMP: Remediation and Site Management*
The District shall follow the protocols outlined in the Soil Mitigation Plan (SMP) completed by McCloskey Consultants, Inc. on December 19, 2018. The proposed removal activities shall be performed by a California-certified contractor appointed by the District to assist with the following activities:

Site-specific health and safety worker requirements, pre-field activities, site control, excavation of impacted soil, dust and erosion control, air monitoring, decontamination, field documentation, and confirmation soil sampling; see SMP at **Appendix J**.

MM 10) *SMP: Site-Specific Health and Safety Worker Requirements*
District appointed contractors shall be responsible for the health and safety of their own employees and are required to have their own Health and Safety Plan (HSP) and Injury and Illness Prevention Plans (IIPPs) to comply with OSHA. The HSP shall be implemented at the Site. Contractors may utilize the HSP provided in the SMP, Appendix D, as a template to create their company-specific HSP. The HSPs shall provide general health and safety guidance such that field activities can be conducted in a safe manner. Per Cal/OSHA requirements (California Code of Regulations, Title 8), each contractor working at the Site shall prepare a health and safety plan that addresses the safety and health hazards during each phase of Site operations that includes the requirements and procedures for employee protection. The HSPs will provide standard operating procedures for personnel involved in activities that may expose them to chemical and physical hazards associated with the removal of impacted soil at the Site. The plan must be kept on-Site during soil removal and loading activities. Prior to conducting work on-Site, project management and field staff must be familiar with the contents of the HSP; see SMP at **Appendix J**.

MM 11) *SMP: Pre-Field Activities*

Several pre-field activities shall be required prior to the initiation of Site removal activities. Pre-field activities include permitting, utility clearance, work zone designation, and set up of support zones/staging areas. These pre-field activities shall be performed as outlined in the SMP; see SMP at **Appendix J**.

MM 12) *SMP: Site Control*
Site control is intended to control the potential spread of contamination from the Site. The affected area shall be separated from the public by a temporary fencing, to be installed by the remediation contractor. Prior to field activities, the Site will be divided into three zones: exclusion zone, decontamination zone, and support zone. Within the exclusion zone are individual work zones where contaminated material is being excavated, stockpiled, or loaded. Ingress to and egress from the Site will be controlled via locking gates. The excavated soil will be stockpiled at the closest available area on plastic sheeting; see SMP at **Appendix J**.

MM 13) *SMP: Excavation of impacted soil*
The District appointed contractor shall be responsible for assisting the District with excavation/relocation procedures, stockpiling of soil, truck loading procedures, and transportation procedures. Soil excavation activities will remove approximately 115 cubic yards of pesticide and metal containing soil and transportation of the material to off-Site disposal facilities. For arsenic and pesticide removal areas, the initial excavations are estimated to be 1 to 1½ feet deep and include portion of one side of existing structures, two areas in the garden/outdoor classroom and one area on the southwestern portion of the Site. The depths of the excavations are estimated, and contamination may be present in deeper soils in limited areas. These areas will be determined after the initially planned excavations and confirmation sampling. The estimated yardage includes a contingency that additional soil (up to 30%) may need to be excavated should some confirmation samples have contaminants that exceed the Site remediation goal concentrations. Site grading and the construction of the new school buildings shall not take place until after the remedial activities; see SMP at **Appendix J**.

MM 14) *SMP: Dust and Erosion Control*
Site control procedures shall be established to control the potential generation of dust and exposure to worker and Site neighbors. These controls include a variety of dust control methods and practices designed to minimize the generation and spread of dust. A water truck or other source of water shall be used to deliver water to the Site for dust control purposes. Experience at similar sites in the area has shown that if good dust control is maintained, dust emissions can be kept below action levels. Air monitoring shall be conducted by a Hazmat Consultant to control dust emissions during Site remedial activities. The dust control measures are outlined in the SMP and shall be followed at all times during remedial activities; see SMP at **Appendix J**.

MM 15) *SMP: Air Monitoring*

Air monitoring will be performed by a Hazmat Consultant along the perimeter of the Site to evaluate the effectiveness of the dust control measures. Details of the air monitoring trigger and action levels are summarized in the SMP. If the Trigger Level of "visible dust" is reached, dust control measures must be increased visible dust is not present. Work shall stop if the action levels of 0.05 mg/m^3 is reached, exceeded, or the Site cannot be reliably controlled. If the Action Levels are exceeded, the District project manager shall be notified immediately; see SMP at **Appendix J**.

MM 16) *SMP: Decontamination*
As stated in the SMP, decontamination procedures shall be followed before equipment or personnel exit the exclusion zone as part of general protocols for preventing or reducing the physical transfer of impacted materials from the affected areas. The District appointed contractor shall be responsible for assisting the District with equipment decontamination, track-out controls, and worker decontamination protection; see SMP at **Appendix J**.

MM 17) *SMP: Field Documentation*
A McCloskey Consultant, Inc. (MCI) field engineer shall be present on-Site on an as-needed basis during the chemically-affected soil excavation, perimeter dust monitoring, and dust handling activities. This individual shall monitor the soil excavation work, collect confirmation soil samples, perimeter air monitoring and collect stockpile soil samples. As part of this process, a field log shall be utilized to document Site activities. A scaled Site map shall be implemented to document removal areas and confirm sampling locations. Site activities shall be photographed periodically by MCI to document implementation of the removal activities. The photographs shall be made available for inspection by District authorized personnel for the duration of the project and shall be included in the Removal Action Completion Report; see SMP at **Appendix J**.

MM 18) *Confirmation Soil Sampling*
In accordance with the SMP, confirmation soil samples shall be collected from the bottom and sidewalls of the excavation areas to document adequate removal of COC contaminated soils; see SMP at **Appendix J**.

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less Than Significant with Mitigation Incorporated. According to the SMP, elevated pesticides and metal concentrations identified in shallow soils would be mitigated by excavation. The soil would be off-hauled and disposed of at appropriately-licensed landfill prior to Site development. Soils containing arsenic and elevated pesticide concentrations should be resampled and tested after excavation and stockpiling to determine appropriate transportation and landfill disposal options. Based on the PEA and SSI sampling results, it is not anticipated that the material is hazardous waste. Mitigation measures **MM 9)** *SMP: Remediation and Site Management*, **MM 13)** *SMP: Excavation of impacted soil*, and **MM 18)** *SMP: Confirmation Soil Sampling* shall be implemented achieve a less than significant impact.
Additionally, the SMP specifies that selected contractors will obtain all applicable permits and notifications required for performing soil excavation and off-haul from all appropriate agencies.

A USEPA identification number would need to be obtained for the Site if stockpile sampling identifies hazardous waste concentrations in the soil. This would require off-hauling and disposal at a Class I Hazardous Waste landfill. Based on the concentration detected in the PEA and SSI sampling, this is not anticipated; no significant hazard to the public or environment is expected.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less Than Significant with Mitigation Incorporated. Based on the concentrations detected in the PEA and information from the SMP, it is not anticipated that the Project would require off-hauling or disposal of Class I hazardous waste. Implementation of mitigation measures **MM 9)** *SMP: Remediation and Site Management*, **MM 10)** *SMP: Site-Specific Health and Safety Worker Requirements*, **MM 11)** *SMP: Pre-Field Activities*, **MM 12)** *SMP: Site Control*, **MM 13)** *SMP: Excavation of impacted soil*, **MM 14)** *SMP: Dust and Erosion Control*, **MM 15)** *SMP: Air Monitoring*, **MM 16)** *Decontamination*, **MM 17)** *SMP: Field Documentation*, and **MM 18)** *SMP: Confirmation Soil Sampling* will ensure that accidents involving the release of hazardous materials into the environment do not occur. The District shall follow procedures outlined in the SMP.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less Than Significant with Mitigation Incorporated. Modernization of the Project Site includes implementation of a SMP and associated mitigation measures **MM 9)** *SMP: Remediation and Site Management*, **MM 10)** *SMP: Site-Specific Health and Safety Worker Requirements*, **MM 11)** *SMP: Pre-Field Activities*, **MM 12)** *SMP: Site Control*, **MM 13)** *SMP: Excavation of impacted soil*, **MM 14)** *SMP: Dust and Erosion Control*, **MM 15)** *SMP: Air Monitoring*, **MM 16)** *Decontamination*, **MM 17)** *SMP: Field Documentation*, and **MM 18)** *SMP: Confirmation Soil Sampling* will ensure that the project does not create a significant hazard to the public or the environment.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No Impact. According to the Geological and Safety Hazards Evaluation, the Site is not listed on the State Water Resources Control Board or on the California Department of Toxic Substances Control.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

No Impact. There are no airports located within two nautical miles of the Site; the closest airport is Palo Alto Airport approximately 6.0 miles southeast of the Site. This is consistent with the *California Code of Regulations, Title 21*, Division 25, Chapter 2.1; *Education Code* Section 17215 and School Facilities Planning Division (SFPD) 4.01.

f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

No Impact. No expansion of property or land acquisition is associated with this project; non-applicable to this Project. The closest airport is Palo Alto Airport approximately 6.0 miles southeast of the Site.

g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

No Impact. The project does not interfere with any adopted emergency response plans or emergency evacuation plans. Results from the TIS determined that Project circulation and design would allow for adequate passage of emergency vehicles; see TSI at **Appendix L**. The Site has been utilized as a school since 1947 and will continue to operate in this capacity.

h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

No Impact. No impact; the Site is not located on or adjacent to a wildland.

i) Be located within 1,500 feet of a high-pressure pipeline that can pose a safety hazard?

Less Than Significant Impact. Due to the location of a pipeline, identified as "PG & E pipeline 101", within 1,500 feet of the site, operating at 365 psi, a Pipeline Safety Hazard Assessment was performed by Placeworks; see **Appendix K**. Results from the study indicate that the hazard footprints do not reach the school and that released water would not result in water depths at the Site. Therefore, there would be no risk to students or staff.

X. HYDROLOGY AND WATER QUALITY

X. HYDROLOGY AND WATER QUALITY— Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements?		X		
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?			X	
c) Substantially alter the existing drainage pattern of the Project Site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-Project Site?			X	
d) Substantially alter the existing drainage pattern of the Project Site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-Project Site?			X	

X. HYDROLOGY AND WATER QUALITY— Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?			X	
f) Otherwise substantially degrade water quality?		X		
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				X
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?			X	
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?				X
j) Inundation by seiche, tsunami, or mudflow?				X

DISCUSSION: HYDROLOGY AND WATER QUALITY

a) Violate any water quality standards or waste discharge requirements?

Less Than Significant with Mitigation Incorporated. The project would be subject to the requirements of the Clean Water Act, including the National Pollutant Discharge Elimination System (NPDES) permit. The purpose of the SWPPP is to (1) identify the sources of sediment and other pollutants that could affect the quality of stormwater discharges, and (2) describe and ensure the implementation of Best Management Practices (BMPs) to reduce or eliminate discharges of sediment and other pollutants in stormwater as well as non-stormwater discharges resulting from construction activity. The following mitigation measure would ensure the project does not violate any water quality standards or waste discharge requirement.

MM 19) *Stormwater Pollution Prevention Plan*
The District shall obtain discharge authorization under an appropriate National Pollutant Discharge Elimination System (NPDES) and shall ensure implementation of a Stormwater Pollution Prevention Plan (SWPPP) to abide by water quality standards and waste discharge requirements.

b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?

Less Than Significant Impact. Water is currently conveyed to the Site by the City of Redwood City and will continue to be conveyed to the Site by Redwood City at completion of the Project. The Project Site does not use groundwater.

c) Substantially alter the existing drainage pattern of the Project Site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-Project Site?

Less Than Significant Impact. Currently the site is operational as an existing school site and does not alter the course of streams or rivers. There are existing underground storm drainage facilities within the project site area with a piped connection to the off-site City's existing storm drainage system along 8th Avenue; see site plans at **Appendix A**.

d) Substantially alter the existing drainage pattern of the Project Site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-Project Site?

Less Than Significant Impact. Currently the site is operational as an existing school site and does not alter the course of streams or rivers. There are existing underground storm drainage facilities within the project site area with a piped connection to the off-site City's existing storm drainage system along 8th Avenue; see site plans at **Appendix A**.

e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Less Than Significant Impact. Stormwater runoff from the project site will be collected and treated within stormwater management areas (bioretention and flow-through planters) and will be connected and discharged to the existing on-site underground storm drain system which discharges directly to the existing City system on 8th Avenue; see site plans at **Appendix A**. The project is consistent with the City's water ordinance and would not exceed the capacity of existing stormwater drainage systems.

f) Otherwise substantially degrade water quality?

Less Than Significant with Mitigation Incorporated. The Project is not expected to substantially degrade water quality. Implementation of mitigation measure **MM 19)** *Stormwater*

Pollution Prevention Plan would ensure water quality standards and waste discharge requirements are met.

g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

No Impact. The Project does not include any housing; therefore, there will be no impact to housing placed within a 100-year flood hazard; see Site Plans at **Appendix A**.

h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?

Less Than Significant Impact. According to the Geologic and Safety Hazards Evaluation, the Project Site is not within a 100-year flood hazard area; see CDE/CCR Title 5 Geologic and Safety Hazards Evaluation at **Appendix F.**

i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

No Impact. The Project Site is not within a levee or dam inundation area, as stated by the CDE/CCR Title 5 Geologic and Safety Hazards Evaluation; see **Appendix F**.

j) Inundation by seiche, tsunami, or mudflow?

No Impact. According to the Geologic and Safety Hazards Evaluation, the Project Site is not susceptible to seiche, tsunami, or mudflow; these hazards are considered nil due to the inland location of the site; see CDE/CCR Title 5 Geologic and Safety Hazards Evaluation at **Appendix F.**

XI. LAND USE AND PLANNING

XI. LAND USE AND PLANNING— Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Physically divide an established community?			X	
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?			X	
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?			X	

DISCUSSION: LAND USE AND PLANNING

Environmental Setting:
As discussed in the Initial Study Findings of this document, subsection 6 and 7, the project is located within the Residential Duplex Zone R-2 with a land use designation of Schools. According to the City's General Plan: Urban Form and Land Use, public schools are a permitted use within the residential land use categories. The project would be consistent with all applicable plans, policies or regulations that have been adopted by local, county, regional, state or federal agencies with jurisdiction over this project for the purpose of avoiding or mitigating environmental effects. On November 9, 2016, the District adopted Resolution No. 13 pursuant to California Government Code Section 53094 which authorized the District to exempt itself from city or county zoning ordinances; see **Appendix E**

a) Physically divide an established community?

Less Than Significant Impact. The Project Site has been an established part of the community operating as a school site since the 1950's and would not divide the existing community.

b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

Less Than Significant Impact. The Site is designated for schools as per the City's General Plan and continued use of the Site for educational purposes would not conflict with any land use plans. The Project is consistent with the Redwood City General Plan and would continue to

support policies such as BE –8.2 by promoting connections to schools, trails, and parks. The RCSD implements Safe Routes to School which is a program that aims to make commutes safer for students to get to school and encourages walking and biking where safety is not a barrier.

c) Conflict with any applicable habitat conservation plan or natural community conservation plan?

Less Than Significant Impact. The Site is intended for continued educational use and does not conflict with any conservation plan, natural community conservation plan, General Plan, Downtown Precise Plan, or other plans associated with development or conservation.

XII. MINERAL RESOURCES

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

DISCUSSION: MINERAL RESOURCES

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

Less Than Significant Impact. San Mateo County classifies Significant Mineral Resources as MRZ-2 (Mineral Resource Zone 2). The general plan designation for the Project Site is Schools which is not preserved for mineral use. This is also consistent with the Redwood City General Plan, Natural Resources Section that describes water resources, energy conservation, natural habitat, and urban forests as the main resources. There are no known mineral resources on the existing campus.

b) Result in the loss of availability of a locally-important mineral resource recovery Project Site delineated on a local general plan, specific plan or other land use plan?

Less Than Significant Impact. The Project will not result in the loss of availability of locally-important mineral resources. This is also consistent with the Redwood City General Plan, Natural Resources Section that describes water resources, energy conservation, natural habitat, and urban forests as the main resources. There are no known mineral resources on the existing campus.

XIII. NOISE

XIII. NOISE— Would the project result in:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?		X		
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?			X	
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?			X	
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?		X		
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				X
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?				X

DISCUSSION: NOISE

Environmental Setting:
The Redwood City General Plan defines noise as any "unwanted sound" and measures noise levels in units of decibels (dB); which is a logarithmic unit of measurement indicating the relative amplitude of a sound. According to the Redwood City Noise Ordinance No. 2013, §1, 4-2-90, noise levels generated by construction activities, including demolition, alteration, repair or remodeling of or to existing structures and construction of new structures on property within the City, at more than 110 dB measured at any point within a residential district of the City are considered unlawful. It is also unlawful for any person to engage in construction activities in a residential district between the hours of eight o'clock (8:00) p.m. and seven o'clock (7:00) a.m. the following day, Monday through Friday of any week or at any time on Saturdays, Sundays or holidays if the noise level generated by any such activity exceeds the local ambient measured at any point within the residential district and outside of the plane of said property.

Construction of the new two-story building and new parking area may result in a temporary increase of noise levels within the project vicinity, but construction would be limited to the hours of 7:00am and 5:00pm during the week. It is estimated that construction of the project will occur over approximately 18 months during the school year starting Fall of 2019. Project activities are not expected to operate at more than 110 dB. For a detailed list of anticipated demolition and construction equipment to be used during Project activities, see page 15 of this report, section *III. Air Quality*. Using information provided by the U.S. Department of Transportation Federal Highway Administration, noise levels associated with Project demolition and construction equipment are estimated to range between 70 – 90 dBA; see Table 4 below.

Table 4: Anticipated Demolition and Construction Noise levels

Equipment Type	**L_{max} @ 50 feet (dBA)**		**Equipment Type**	**L_{max} @ 50 feet (dBA)**
Concrete/Industrial Saw	90		Fork lift	80-85
Dozer	82		Generator Sets	70-82
Tractors	84		Welders	74
Loaders	79		Cement and Mortar Mixers	79
Backhoes	78		Pavers	77
Graders	85		Rollers	80
Cranes	81		Air Compressor	78
where **L_{max} is the maximum noise level*				

Daily operational activities associated with continues use of the school will not result in significant noise impacts. Additionally, the District adopted Resolution No. 13 pursuant to California Government Code Section 53094 which authorized the District to exempt itself from city or county zoning ordinances; see **Appendix E**. This allows for exemption from city and county noise ordinances during demolition, construction, and any other associated Project activities.

a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less Than Significant with Mitigation Incorporated. Construction of the new facilities at the existing school may result in a temporary increase of noise levels within the project vicinity. Therefore, to reduce impacts of construction to neighboring communities, the following mitigation measure shall be implemented.

MM 20) *Noise Suppression Attachments and Minimal Idling*
The contractor shall employ appropriate noise suppression attachments (e.g., mufflers, etc.) on all equipment. Equipment idling shall be kept to a minimum and equipment turned off when not in use. Project activities shall not operate at more than 110 dB and are limited to the hours of 7:00 a.m. to 5:00 p.m. Monday through Friday of any week.

Additionally, the District adopted Resolution No. 13 pertaining to California Government Code Section 53094 which authorized the District to become exempt from city or county zoning ordinances; see **Appendix E**.

b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?

Less Than Significant Impact. Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. Several different methods are used to quantify vibration. Typically, groundborne vibration generated by man-made activities attenuates rapidly with distance from the source of the vibration. Sensitive receptors to vibration include structures (especially older masonry structures), people (especially residents, the elderly, and sick), and vibration-sensitive equipment. Vibration amplitudes are usually expressed as either peak particle velocity (PPV) or the root mean square (RMS) velocity. The PPV is defined as the maximum instantaneous peak of the vibration signal. PPV is appropriate for evaluating potential damage to buildings, but it is not suitable for evaluating human response to vibration because it takes the human body time to respond to vibration signals. The response of the human body to vibration is dependent on the average amplitude of a vibration. The RMS of a signal is the average of the squared amplitude of the signal and is more appropriate for evaluating human response to vibration. PPV and RMS are normally described in units of inches per second (in/sec), and RMS is also often described in vibration decibels (VdB). During the construction of the new facility and parking area, the Site and immediate vicinity could be subject to ground borne vibration (e.g., from the movement of large pieces of equipment and loaded trucks); however, these impacts would be temporary and therefore less than significant. Additionally, the District adopted Resolution No. 13 on November 9, 2016 pertaining to California Government Code Section 53094 which authorized

the District to become exempt from non-applicable city or county zoning ordinances; see **Appendix E**.

c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

Less Than Significant Impact. Average ambient noise levels associated with the existing school are not expected to increase significantly as a result of the Project. Enrollment is not expected to increase, and noise levels associated with daily operational activities would not create any more noise than currently produced.

d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?

Less Than Significant with Mitigation Incorporated. As discussed in section a), the construction phase of the project would result in temporary increases in ambient noise levels. However, the implementation of **MM 20)** *Noise Suppression attachments and Minimal Idling* would ensure that construction-related noise impacts remain less than significant.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No Impact. Results from the Hazard Study show the nearest airport runway is over 2 nautical miles to the east of the Project Site. Therefore, there would not be a significant or adverse impact on noise due to location of an airport. The closest airport is Palo Alto Airport approximately 6.0 miles southeast of the Site. This is consistent with the *California Code of Regulations, Title 21*, Division 25, Chapter 2.1; *Education Code* Section 17215 and School Facilities Planning Division (SFPD) 4.01.

f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

No Impact. No private airstrips were identified in the Site vicinity; therefore, there would be no significant or adverse impact. The closest airport is Palo Alto Airport approximately 6.0 miles southeast of the Site.

XIV. POPULATION AND HOUSING

XIV. POPULATION AND HOUSING— Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?			X	
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				X
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				X

DISCUSSION: POPULATION AND HOUSING

Environmental Setting:
The proposed Project is in response to growth in the District and planned development within the community. Modernization activities are required to keep the school current.

a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

Less Than Significant Impact. The project is in response to growth within the District and is not growth-inducing. The Project would not have a significant or adverse impact on population growth.

b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?

No Impact. The Project is located on an existing operational school site and will not displace any housing.

c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

No Impact. The Project will not displace any people. The Project is located on an existing operational school site.

XV. PUBLIC SERVICES

XV. PUBLIC SERVICES— Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
Fire protection?			X	
Police protection?			X	
Schools?			X	
Parks?			X	
Other public facilities?			X	

DISCUSSION: PUBLIC SERVICES

Environmental Setting:
The Project would be served by the Redwood City Fire Department, Station #11 (1091 Second Avenue) approximately 0.7 miles northwest of the Site. The Project would also be served by the Redwood City Police Department (1301 Maple Street) approximately 2.5 miles northwest of the site. Several recreational areas are in the vicinity of the Project site including Andrew Spinas Park (0.5 miles northwest), Sports House (0.8 miles southwest), and North Fair Oaks Community Park (1.1 miles southwest).

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

Fire protection?
Less Than Significant Impact. The Redwood City Fire Department includes seven fire stations with over 90 staff members. The call volume for the Project will not necessitate a new fire facility. The project would also be required to

comply with standard fire life safety and access requirements of DSA. The Redwood City Fire Department and the State of California Fire Marshall's Office have the authority to review and approve the project site plans for emergency vehicle access and location and number of fire hydrants.

Police protection?
Less Than Significant Impact. The Taft Community School is an existing school that would continue to be used for educational purposes. The proposed Project would not cause an increase to population and does not include the development of new housing. Therefore, the proposed Project would not require addition police department staffing to maintain its officer-to-population service ratio.

Schools?
Less Than Significant Impact. Modernization and additions to the existing school could have adverse environmental impacts; however, mitigations included in this document shall ensure less than significant impact is achieved. The Project is not creating a need for new schools since the project itself is intended to replace outdated school facilities on existing public-school land.

Parks?
Less Than Significant Impact. The Project itself will not create additional demand for parks. Potential use of the existing campus ballfields by the community would continue to provide additional recreational facilities for local residents outside of local parks.

Other public facilities?
Less Than Significant Impact. The Project is not expected to increase demand for other public facilities.

XVI. RECREATION

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

DISCUSSION: RECREATION

Environmental Setting:
The Project would continue to provide recreational facilities on site. Any impacts to nearby parks and recreational facilities as a result of student use is considered to be less than significant. Several recreational areas are in the vicinity of the Project site including Andrew Spinas Park (0.5 miles northwest), Sports House (0.8 miles southwest), and North Fair Oaks Community Park (1.1 miles southwest).

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

Less Than Significant Impact. The Project Site has an existing play area and asphalt-paved play for students and the community. The Project will not substantially increase the use of neighborhood parks; the school will have recreation areas on site.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Less Than Significant Impact. The Project would not include recreational facilities or require expansion of existing recreational facilities.

XVII. TRANSPORTATION

XVII. TRANSPORTATION— Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?			X	
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?			X	
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?				X
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			X	
e) Result in inadequate emergency access?			X	
f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?			X	
g) Be located within 500 feet of the edge of the closest traffic lane of a freeway or other busy traffic corridor (as defined in Senate Bill 352, Chapter 668, Statutes of 2003)?				X
h) Be located within 1,500 feet of a railroad easement?			X	

DISCUSSION: TRANSPORTATION/TRAFFIC

Environmental Setting:
Due to the addition of classrooms, and the addition of a parking lot, a Traffic Impact Study Report (TIS) was performed by TJKM and completed on January 29, 2018 to further assess the potential impacts of the Project, see **Appendix L**. The study examined Bay Road and Tenth Avenue (One-Way Stop), Tenth Avenue and Page Street (All-Way Stop), Page Street and Eighth Avenue (Two-Way Stop), and Bay Road and Eighth Avenue (Two-Way Stop). Results from the study determined that all intersections would operate within the applicable jurisdiction standards of Redwood City during a.m., midday, and p.m. peak hours. Project driveways were found to operate at acceptable LOS and the outbound approach of the project driveways are expected to be minimal. Therefore, traffic operation issues are predicted to be less than significant.

a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

Less Than Significant Impact. Results from the traffic study found that circulation is not expected to create a significant impact. All intersections were found to operate within the acceptable LOS range for Redwood City. Impacts to pedestrian, bicycle, and transit facilities are also excepted to be less than significant. The local transit service, operates well below capacity, and any additional trips generated by the project could be accommodated by existing bus services; see TSI at **Appendix L**.

b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?

Less Than Significant Impact. Results from the TIS determined that circulation is not expected to create a significant impact. All intersections were found to operate within the acceptable LOS range for Redwood City; see TSI at **Appendix L**.

c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

No Impact. No airport runways were identified within 2.0 nautical miles of the Site as identified in the Geologic and Safety Hazards Evaluation. The closest airport is Palo Alto Airport approximately 6.0 miles southeast of the Site. This is consistent with the *California Code of Regulations, Title 21*, Division 25, Chapter 2.1; *Education Code* Section 17215 and School Facilities Planning Division (SFPD) 4.01.

d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less Than Significant Impact. Site plans are being developed by qualified architects with the knowledge of standards and requirements set forth by the Division of the State Architects. The design will not create an impact or incompatible use. TJKM examined the project site plan in

order to evaluate the adequacy of on-site vehicles, vans and emergency vehicles circulation. Internal circulation was reviewed for issues related to queueing, turning radii, and safety and circulation aisles. The circulation aisle accommodates one-way travel and the turning radii appears to be adequate for the passenger vehicles, vans and emergency vehicles. Emergency vehicles can access the project via the driveway that was situated on Tenth Avenue. TJKM concluded that the proposed on-site vehicle circulation was regarded as "excellent" and should not result in any significant impacts either on-site or on City streets; see TSI at **Appendix L**.

e) Result in inadequate emergency access?

Less Than Significant Impact. Adequate emergency access will be included in the project design; see Site Plans at **Appendix A**. Additionally, results from the TIS determined that Project circulation and design would allow for adequate passage of emergency vehicles; see TSI at **Appendix L**.

f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

Less Than Significant Impact. The Project will not interfere with any adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities. The traffic study showed the Project is consistent with Redwood City jurisdictional standards. The proposed project will generate very few trips via transit services, which can be accommodated by the existing transit capacity and hence the project is anticipated to have a less than significant impact on transit facilities. The RCSD implements Safe Routes to School which is a program that aims to make commutes safer for students to get to school and encourages walking and biking where safety is not a barrier. Pedestrian access to the project site is facilitated by existing sidewalks on Page Street, Bay Road, Tenth Avenue and Eighth Avenue. Crosswalks are provided on all the legs of the study intersections except at the intersection of Bay Road and Eighth Avenue. All existing sidewalks are approximately 5 feet wide varying along the project area. There is adequate street lighting in the vicinity. In terms of bicycle access to the project site, there are existing Class II bike lanes on Bay Road from Rose Avenue towards Florence Street. There are adequate signage/markings for the bicyclists to maneuver without confusion. Existing bicycle facilities provide adequate connectivity between the proposed project site and the adjacent neighborhoods. An impact to bicyclists occurs if the proposed project disrupts existing bicycle facilities; or creates inconsistencies with adopted bicycle system plans, guidelines, and policies. A significant impact occurs if the proposed project conflicts with applicable or adopted policies, plans or programs related to bicycle facilities or otherwise decrease the performance or safety of bicycle facilities. The traffic study determined that the proposed project does not conflict with existing and planned bicycle facilities; therefore, the impact to bicycle facilities is less than significant; see TSI at **Appendix L**.

g) Be located within 500 feet of the edge of the closest traffic lane of a freeway or other busy traffic corridor (as defined in Senate Bill 352, Chapter 668, Statutes of 2003)?

No Impact. No major roads are identified within 500 feet of the Site as identified in the Geologic and Safety Hazards Evaluation.

h) Be located within 1,500 feet of a railroad easement?

Less Than Significant Impact. Based on the Geologic and Safety Hazards Evaluation, the Site is located within 1,500 feet of a railroad easement. Therefore, a Rail Safety Study was completed by Placeworks in January of 2018; see **Appendix M**. Results from the study identified two railroad tracks approximately 900 feet south from the school's property boundary that are operated by Union Pacific. The probability of a rail accident or derailment within 1,500 feet of the school was calculated to be 2.5×10^{-4} and 1.9×10^{-4}; the equivalent of an accident or derailment occurring once every 4,000 to 5,260 years. No unusual circumstances were observed that would present special risks to students or staff at the Site due to operations of the Union Pacific railroad. Therefore, no mitigation measures or special provisions shall be required at the school site.

XVIII. TRIBAL CULTURAL RESOURCES

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

DISCUSSION: TRIBAL CULTURAL RESOURCES

Environmental Setting:
Assembly Bill 52, which became effective on July 1, 2015, revised several portions of California's Public Resources Code to broaden the requirements for tribal consultation and to provide a more formal structure for California's tribes to provide meaningful input to protect their cultural heritage during the CEQA process. California Public Resources Code section 21084.2 now establishes that "[a] project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment." Lead agencies are required to avoid, when feasible, damaging effects to any tribal cultural resource. This requires lead agencies to begin consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of the proposed project, "[p]rior to the release of a negative declaration, mitigated negative declaration, or environmental impact report for a project." Pub. Res. Code § 21080.1.1(b).

Consultation with Native American tribes is necessary, not only for the purpose of determining appropriate mitigation measures, but also to help the lead agency identify locations where the proposed project might impact culturally significant areas. Assembly Bill 52's requirement that lead agencies consult with tribes early in a project's development facilitates identification of cultural resources known to tribes and provides a better opportunity to undertake appropriate mitigation measures, if needed.

The Redwood City School District sent a Consultation Request Form to the Native American Heritage Commission (NAHC) on July 17, 2017 requesting CEQA Tribal Consultation List (per AB 52) and a Sacred Lands File check. The NAHC responded with a consultation list of tribes within the boundaries of the Site. Five different tribes were listed in the consultation letter and the District mailed tribal notification letter to the corresponding tribes on October 17, 2017. The Districted did not receive any response. It is possible that an unknown Tribal Cultural Resource (TCR) could be found during ground disturbing activities. Compliance with existing federal, State, and local laws and regulations would protect unrecorded TCR's within the project site through excavation or preservation activities, thereby preventing or minimizing the material impairment of archaeological deposits.

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resources, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that Is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe that is: Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k),

Less Than Significant Impact. A Sacred Lands File check was requested on July 11th, 2017 and results were negative for tribal resources. There are no known listed or eligible for listing resources on the Site.

b) Would the project cause a substantial adverse change in the significance of a tribal cultural resources, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that Is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe that is: A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1.in applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1 the lead agency shall consider the significance of the resource to a California Native American tribe.

Less Than Significant Impact. A Sacred Lands File check was requested on July 11th, 2017 and results were negative for tribal resources. There are no known listed or eligible for listing resources on the Site.

XIX. UTILITIES AND SERVICE SYSTEMS

XIX. UTILITIES AND SERVICE SYSTEMS—Would the project:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporation	Less Than Significant Impact	No Impact
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?			X	
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?			X	
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?		X		
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?			X	
e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?			X	
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?		X		
g) Comply with federal, state, and local statutes and regulations related to solid waste?		X		

DISCUSSION: UTILITIES AND SERVICE SYSTEMS

Environmental Setting:
Redwood City utilities are provided by Pacific Gas & Electric for gas and electric, Redwood City Public Works Department for water supply, San Mateo County for wastewater services and Recology for garbage services. Two new High Low drinking fountains will be installed at the Project Site per Americans with Disabilities Act (ADA) requirements. New restrooms will be constructed on Site consisting of one girl's restroom, one boy's restroom and five single occupancy restrooms. The girl's restroom will consist of 5 toilets and 4 lavatories. The boy's restroom will include three toilets, two urinals, and four lavatories. Each single occupancy restroom will have one toilet and one lavatory.

The Project would meet the requirements of Title 24 including Part 11 of the California Green Building Standards Code (CALGreen). CALGreen was developed to (1) reduce GHG from buildings; (2) promote environmentally responsible, cost-effective, healthier places to live and work; (3) reduce energy and water consumption; and (4) respond to the environmental directives of the administration. The establishment of the CALGreen Code has been an important step toward more efficient and responsible building design. The California Air Resources Board estimates that the mandatory provisions in CALGreen will reduce GHG by three million metric tons by the year 2020, and this number should increase due to the continued efforts to minimize the impact buildings have on the environment.

a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

Less Than Significant Impact. The Site is currently supported by the Public Works Department. Additions to school site are considered minor and meet the qualifications of a class 14 Categorical Exemption. It is not likely that the project would exceed wastewater treatment requirements of the Redwood City Public Works Department. The Project Site is with the Boundaries of the Regional Board 2 for the San Francisco Bay area and does not involve or require any water or wastewater treatment facilities that would exceed any requirements of the Regional Water Quality Control Board.

b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

Less Than Significant Impact. The project will not require or result in the construction of new water or wastewater treatment facilities or the expansion of existing facilities. All accompaniments to the existing school site are considered minor additions. The Project Site is with the Boundaries of the Regional Board 2 for the San Francisco Bay area and does not involve or require any water or wastewater treatment facilities that would exceed any requirements of the Regional Water Quality Control Board.

c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

Less Than Significant Impact. Storm water management will be directed to existing City infrastructure. Implementation of mitigation measure **MM 19)** *Stormwater Pollution Prevention Plan* would ensure water quality standards and waste discharge requirements are met.

d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

Less Than Significant Impact. The Project would continue to be served by water conveyed from Redwood City and is not expected to significantly impact to the water supply any more than it currently does. The Project is estimated to utilize an additional 56 gallons per minute (GPM) to accommodate the new classroom wing in Building D, and approximately 51 GPM for the new administration wing in Building D. Sufficient water supply would be accommodated by the project and was approved by the Redwood City Fire Department on December 21, 2018.

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

Less Than Significant Impact. The project is not expected to increase the need of the wastewater treatment capacity for Redwood City. During circulation of this CEQA document, Redwood City will be able to review and comment on the Project. The expected amount of wastewater from the site is an amount the existing infrastructure already accommodates, and significant impact is not expected.

f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?

Less Than Significant with Mitigation Incorporated. Nonhazardous solid waste disposal at the Site would be limited to some construction debris and typical school-related materials (e.g., papers, school supplies, and food waste), which are not expected to have a significant impact on local landfills. Solid waste disposal will occur at permitted landfills in accordance with federal, state, and local regulations. The closest local landfill facility is the Corinda Los Trancos (Ox Mountain) Sanitary Landfill, located at 12310 San Mateo Road, approximately 19.4 miles west of the Project Site. This landfill facility has permitted capacity/service life until 2034.

Soil Mitigation Plans (SMP) at the Site could impact certain landfills for potentially hazardous soil waste. However, implementation of mitigation measures **MM 9)** *SMP: Remediation and Site Management*, **MM 10)** *SMP: Site-Specific Health and Safety Worker Requirements*, **MM 11)** *SMP: Pre-Field Activities*, **MM 12)** *SMP: Site Control*, **MM 13)** *SMP: Excavation of impacted soil*, **MM 14)** *SMP: Dust and Erosion Control*, **MM 15)** *SMP: Air Monitoring*, **MM 16)** *Decontamination*, **MM 17)** *SMP: Field Documentation*, and **MM 18)** *SMP: Confirmation Soil Sampling* will ensure appropriate landfill services are utilized at the time of off haul; see SMP at **Appendix J**.

g) Comply with federal, state, and local statutes and regulations related to solid waste?

Less Than Significant with Mitigation Incorporated. The Ox Mountains Sanitary landfill would be utilized for nonhazardous solid waste related to construction activities. The Ox Mountain Sanitary landfill is licensed and operates pursuant to all federal, state and local statutes and regulations as overseen by the San Mateo County Health System's Environmental Health Division.

Solid waste with potential for hazardous content would be disposed of in accordance with procedures outlined in the SMP. Implementation of mitigation measures **MM 9)** *SMP: Remediation and Site Management*, **MM 10)** *SMP: Site-Specific Health and Safety Worker Requirements*, **MM 11)** *SMP: Pre-Field Activities*, **MM 12)** *SMP: Site Control*, **MM 13)** *SMP: Excavation of impacted soil*, **MM 14)** *SMP: Dust and Erosion Control*, **MM 15)** *SMP: Air Monitoring*, **MM 16)** *Decontamination*, **MM 17)** *SMP: Field Documentation*, and **MM 18)** *SMP: Confirmation Soil Sampling* will ensure compliance with federal, state, and local statutes and regulations related to solid waste; see SMP at **Appendix J**.

XX. WILDFIRE

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

DISCUSSION: WILDFIRE

Environmental Setting:
According to the Cal Fire, Fire and Resource Assessment Program (FRAP), the Project Site is not located in or near state responsibility areas or lands classified as very high fire hazard severity zones. The Fire Hazard Severity Zone Viewer (FHSZ) indicates that Taft Community School is within a local responsibility area and is neither very high, high, or moderate for fire hazard severity. Therefore, the project will have no impact to wildfires.

XXI. MANDATORY FINDINGS OF SIGNIFICANCE

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

DISCUSSION: MANDATORY FINDINGS OF SIGNIFICANCE

Environmental Setting:
The Project would result in potentially significant impacts to the following areas if unmitigated: Biological Resources, Cultural Resources, Geology and Soils, Hazards and Hazardous Materials, Hydrology and Water Quality, and Noise. The recommended mitigation measures would reduce these potentially significant impacts to a less than significant level.

a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Less Than Significant Impact. The project is not expected to degrade the quality of the environment, substantially reduce or threaten natural habitats or eliminate important examples of the major periods of California history or prehistory. Mitigation measures **MM 1)** through **MM 20)** would ensure that the project would not result in any significant or adverse impacts.

b) Does the project have the potential to achieve short-term environmental goals to the disadvantage of long-term environmental goals?

Less Than Significant Impact. The proposed Project has no potential to achieve short-term environmental goals to the disadvantage of long-term environmental goals. The Project will enhance and contribute to long-term environmental goals with some short-term environmental impacts which, with the mitigation measures proposed in this document, will be reduced to a less than significant level.

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

Less Than Significant Impact. All potential impacts described in previous sections are considered less than significant or would be mitigated to a level that is less than significant. Implementation of **MM 1)** through **MM 20)** would ensure that the project would not result in any significant impacts. The project could be characterized as having some cumulative impacts; however, the mitigation measures for this project reduce the project impact to a level that is less than significant.

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

Less Than Significant Impact. The project, with mitigation measures **MM 1)** through **MM 20)**, will not cause substantial or adverse effects on human beings.

REFERENCES

I. AESTHETICS

Harley Ellis Devereaux. December 2018. *Taft Community School Measure T Phase 1 New Buildings, Modernization, and Site Work.* Redwood City School District.

Google Earth Pro. US Department of Stat Geographer. 37˚28'51.57" N and 122 ˚11'37.38 W. 2018 Google.

Redwood City GIS. (27 November 2017). Available electronically at: http://webgis.redwoodcity.org/community/.

II. AGRICULTURAL RESOURCES

Department of Conservation. (7 December 2017). *DLRP Important Farmland Finder.* Available electronically at: https://maps.conservation.ca.gov/DLRP/CIFF/.

Department of Conservation. *San Mateo County Important Farmland 2016.* Available electronically at: ftp://ftp.consrv.ca.gov/pub/dlrp/FMMP/pdf/2016/smt16.pdf.

III. AIR QUALITY

Bay Area Air Quality Management District. California Environmental Quality Act. *Air Quality Guidelines*. Part I: Thresholds of Significance. (May 2017).

Bay Area Air Quality Management District. *Pollutant Glossary*. Available Electronically at: http://www.baaqmd.gov/about-air-quality/glossary.

CalEEMod. California Air Pollution Control Officers Association. Version 2016.3.2. Available electronically at: http://www.aqmd.gov/caleemod/download-model201632.

IV. BIOLOGICAL RESOURCES

Padre Associates, Inc. *Biological Study Report for the Taft Community School Modernization Project.* February 2019. Project No. 1902-0021.

Redwood City GIS. (27 November 2017). Available electronically at: http://webgis.redwoodcity.org/community/

Redwood City, California – Code of Ordinances. Chapter 35 Tree Preservation. Ordinance No. 1536.

The Redwood City General Plan. "Natural Resources". (viewed 7/12/17). Available electronically at: http://www.redwoodcity.org/home/showdocument?id=5111.

Redwood City School District. *Resolution No. 13 Exemption from Local Zoning Ordinances*. 9 November 2016.

U.S. Fish & Wildlife Service. Congressional and Legislative Affairs. Digest of Federal Resource Laws of Interest to the U.S. Fish and Wildlife Service. *Migratory Bird Treaty Act of 1918.* Available electronically at: www.fws.gov/laws/lawsdigest/migtrea.html

V. CULTURAL RESOURCES

California State Parks. Office of Historic Preservation. *California Historical Landmarks*. (October 2018). Available electronically at: http://ohp.parks.ca.gov/?page_id=21387.

National Park Service. *National Register of Historic Places.* (November 2018). Available electronically at: https://npgallery.nps.gov/NRHP/SearchResults/4e8e534718764b35a8b86ddb81c32d68?view=list

Native American Heritage Commission. (12 February 2018). *Tribal Consultation Under AB 52: Requirements and Best Practices* [webinar].

Redwood City GIS. (21 November 2017). Available electronically at: http://webgis.redwoodcity.org/community/.

VI. ENERGY

Harley Ellis Devereaux. December 2018. *Taft Community School Measure T Phase 1 New Buildings, Modernization, and Site Work.* Redwood City School District.

Redwood City [website]. Available electronically at: https://www.redwoodcity.org/about-the-city.

VII. GEOLOGY AND SOILS

McCloskey Consultants, Inc. (17 July 2017). CDE/CCR Title 5 Geologic and Safety Hazards Evaluation, Taft Community School.

McCloskey Consultants, Inc. (30 June 2017). Phase I Environmental Site Assessment, Taft Community School.

McCloskey Consultants, Inc. (19 December 2018). Soil Mitigation Plan, Taft Community School.

Ninyo and Moore Geotechnical and Environmental Sciences Consultants. (23 February 2018). *Geotechnical Evaluation and Geologic Hazard Assessment.* Project No. 402965003.

VIII. GREENHOUSE GAS EMISSIONS

Bay Area Air Quality Management District. California Environmental Quality Act. *Air Quality Guidelines*. Part I: Thresholds of Significance. (May 2017).

CalEEMod. California Air Pollution Control Officers Association. Version 2016.3.2. Available electronically at: http://www.aqmd.gov/caleemod/download-model201632.

IX. HAZARDS AND HAZARDOUS MATERIALS

McCloskey Consultants, Inc. (17 July 2017). CDE/CCR Title 5 Geologic and Safety Hazards Evaluation, Taft Community School.

McCloskey Consultants, Inc. (30 June 2017). Phase I Environmental Site Assessment, Taft Community School.

McCloskey Consultants, Inc. (28 February 2018). Preliminary Environmental Assessment Workplan, Taft Community School.

McCloskey Consultants, Inc. (19 December 2018). Soil Mitigation Plan, Taft Community School.

Placeworks. Bush, Steve, P.E., Senior Engineer. (January 2018). Taft Community School. Pipeline Safety Hazard Assessment SSI-03.

X. HYDROLOGY AND WATER QUALITY

Environmental Protection Agency. (May 2007). *Developing Your Stormwater Pollution Prevention Plan*. EPA-833-R-06-004.

Redwood City [website]. Available electronically at: https://www.redwoodcity.org/about-the-city.

XI. LAND USE AND PLANNING

Harley Ellis Devereaux. December 2018. *Taft Community School Measure T Phase 1 New Buildings, Modernization, and Site Work.* Redwood City School District.

National Center for Safe Routes to School. *Safe Routes to School*. Available electronically at: http://www.saferoutesinfo.org/.

Redwood City General Plan. (11 October 2010). *Redwood City's Blueprint to the Future*. Available electronically at: https://www.redwoodcity.org/departments/community-development-department/planning-housing/planning-services/general-plan-precise-plans/general-plan.

Redwood City GIS. (27 November 2017). Available electronically at: http://webgis.redwoodcity.org/community/.

Redwood City School District. *Resolution No. 13 Exemption from Local Zoning Ordinances*. 9 November 2016.

XII. MINERAL RESOURCES

Department of Conservation. (20 November 2017). "CGS Information Warehouse: Mineral Land Classification". Available electronically at: http://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=mlc.

Redwood City General Plan. (11 October 2010). *Redwood City's Blueprint to the Future*. Natural Resources.

Redwood City GIS. (27 November 2017). Available electronically at: http://webgis.redwoodcity.org/community/.

The Redwood City General Plan. "Natural Resources". (viewed 7/12/17). Available electronically at: http://www.redwoodcity.org/home/showdocument?id=5111.

XIII. NOISE

Redwood City General Plan. (11 October 2010). *Redwood City's Blueprint to the Future*. Public Safety. Noise.

Redwood City Code of Ordinances. Chapter 24 – Noise Regulation. Available electronically at: https://library.municode.com/ca/redwood_city/codes/code_of_ordinances?nodeId=CH24NORE

U.S. Department of Transportation. (Accessed 3/12/19). Federal Highway Administration. *Construction Noise Handbook: 9.0 Construction Equipment Noise Levels and Ranges*. Available electronically at: https://www.fhwa.dot.gov/Environment/noise/construction_noise/handbook/handbook09.cfm

XIV. POPULATION AND HOUSING

Harley Ellis Devereaux. December 2018. *Taft Community School Measure T Phase 1 New Buildings, Modernization, and Site Work.* Redwood City School District.

Redwood City GIS. (27 November 2017). Available electronically at: http://webgis.redwoodcity.org/community/.

XV. PUBLIC SERVICES

City of Redwood City. Fire Department. Available electronically at: https://www.redwoodcity.org/departments/fire-department/about-the-department.

Fire Department Information.net. *Map & Distance to the Nearest Fire Station*. (March 2017). Available Electronically at: https://beta.firedepartment.net/nearest-fire-station?address=555+Avenue+Del+Ora%2C+Redwood+City&latitude=&longitude=.

Harley Ellis Devereaux. December 2018. *Taft Community School Measure T Phase 1 New Buildings, Modernization, and Site Work.* Redwood City School District.

Redwood City GIS. (27 November 2017). Available electronically at: http://webgis.redwoodcity.org/community/.

XVI. RECREATION

Harley Ellis Devereaux. December 2018. *Taft Community School Measure T Phase 1 New Buildings, Modernization, and Site Work.* Redwood City School District.

Redwood City GIS. (27 November 2017). Available electronically at: http://webgis.redwoodcity.org/community/.

Redwood City School District. December 2018. *Taft Community School Measure T Phase 1 New Buildings, Modernization, and Site Work.* Harley Ellis Devereaux.

XVII. TRANSPORTATION/TRAFFIC

Harley Ellis Devereaux. December 2018. *Taft Community School Measure T Phase 1 New Buildings, Modernization, and Site Work.* Redwood City School District.

National Center for Safe Routes to School. *Safe Routes to School*. Available electronically at: http://www.saferoutesinfo.org/.

Ninyo and Moore Geotechnical and Environmental Sciences Consultants. (23 February 2018). *Addendum No. 1 Geotechnical Evaluation and Geologic Hazard Assessment.* Project No. 402965003.

Placeworks. Bush, Steve, P.E., Senior Engineer. (January 2018). Taft Community School. Rail Safety Study SSI-03.

Redwood City School District. December 2018. *Taft Community School Measure T Phase 1 New Buildings, Modernization, and Site Work.* Harley Ellis Devereaux.

TJKM Transportation Consultants. (29 January 2018). Final Transportation Impact Study Report. Taft Community School.

XVIII. TRIBAL CULTURAL RESOURCES

Native American Heritage Commission. (12 February 2018). *Tribal Consultation Under AB 52: Requirements and Best Practices* [webinar].

Native American Heritage Commission. (26 July 2017). Taft Community School Modernization Project, San Mateo County. Tribal Consultation List [Letter].

XIX. UTILITIES AND SERVICE SYSTEMS

A.Gov. (20 February 2019). *CALGreen*. Available electronically at: https://www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen.

BFK Engineers. Jonathan Tang. *Wastewater services*. (29 March 2019). [phone call].

Harley Ellis Devereaux. December 2018. *Taft Community School Measure T Phase 1 New Buildings, Modernization, and Site Work.* Redwood City School District.

Redwood City General Plan. (11 October 2010). *Redwood City's Blueprint to the Future.*

Redwood City [website]. Available electronically at: https://www.redwoodcity.org/about-the-city.

XX. WILDFIRE

Cal Fire. *Fire Hazard Severity* Zone. (15 January 2019) Available electronically at: http://egis.fire.ca.gov/FHSZ/.

Cal Fire. Northern Region Operations. (16 January 2019). [phone call].

Figure 1
Project Site Location Map – Vicinity

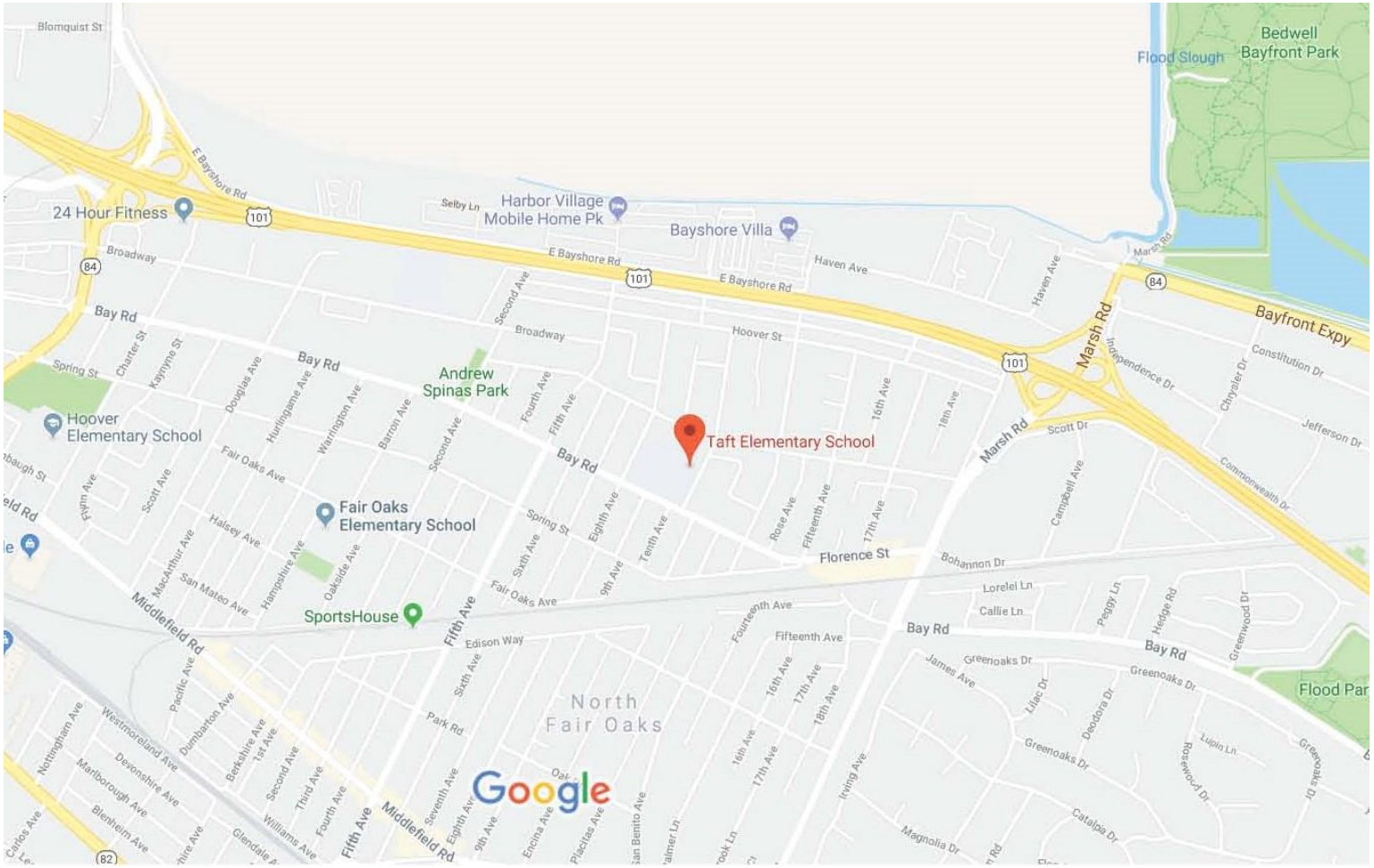
Source:
Google Earth
Not to scale.

Site Location Map – Vicinity Map
Redwood City School District
Taft Community School

Figure
1

N

Figure 2
Project Site Location Map – Geographic



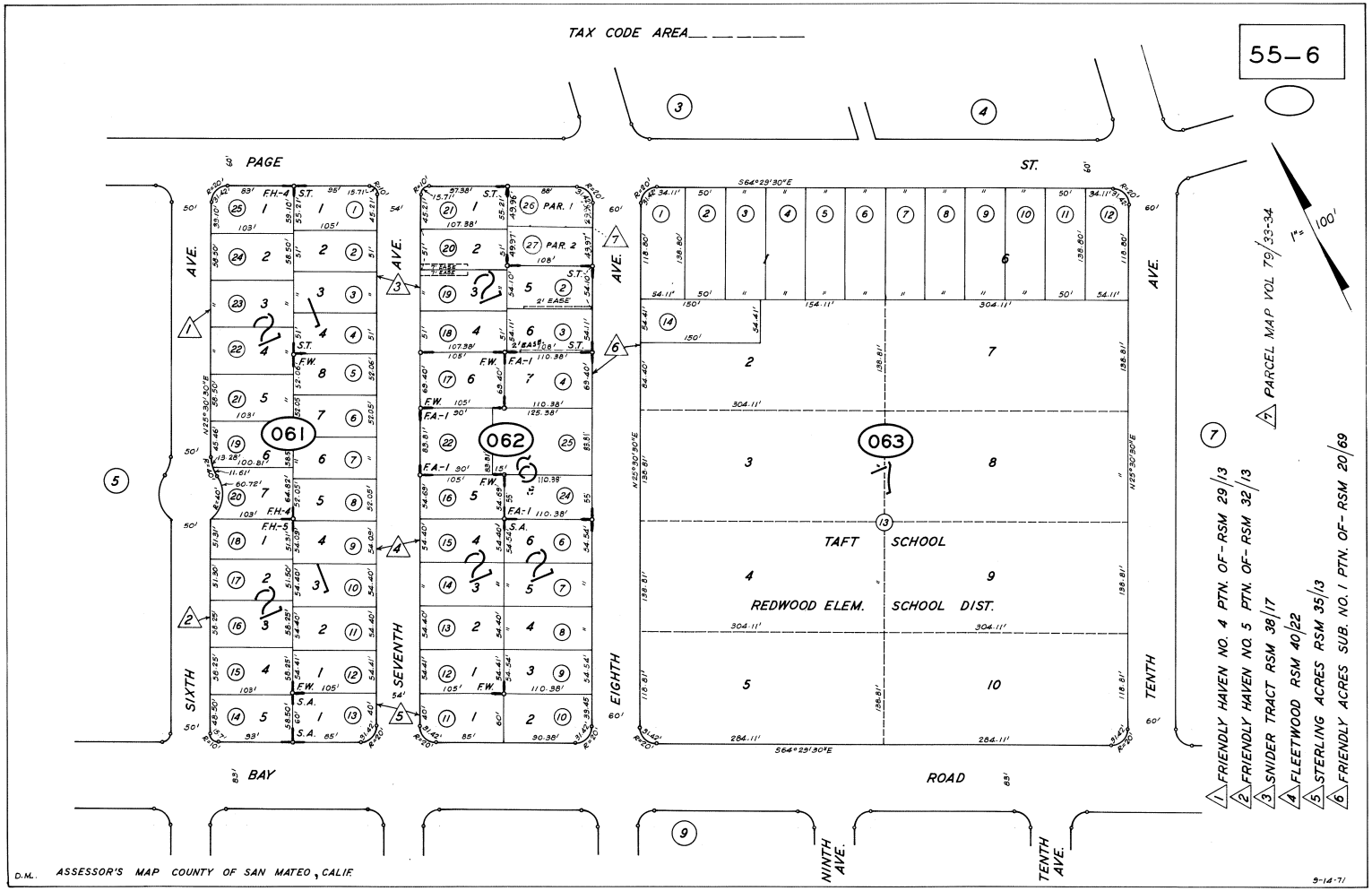
Source:
Google Maps
Not to scale.

Site Location Map – Geographic
Redwood City School District
Taft Community School

Figure
2

N

Figure 3
Project Site Location Map – Parcel



Source:
County of San Mateo
Not to scale.

SSS

Site Location Map – Parcel Map

Redwood City School District
Taft Community School

Figure
3

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Appendix A
Proposed Site Plan

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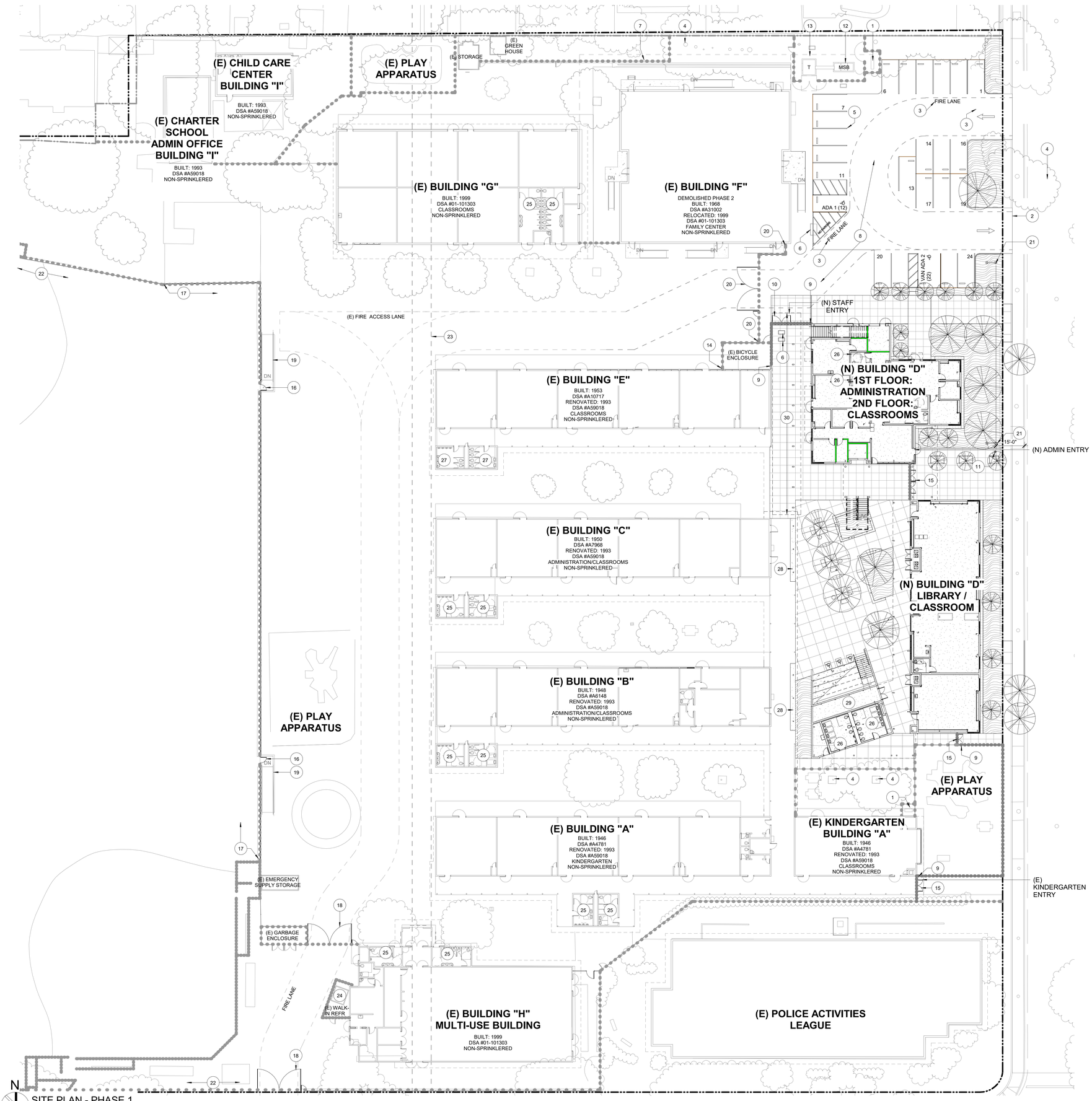


SITE PLAN - PHASE 1

1" = 20'-0"

RSN://sfc-har-rvs01/K12/RCSD/2017-03267_TaftCommSchMainProj/2017-03267_Arch_HED.rvt

SITE PLAN GENERAL NOTES

1. FOR NEW CAMPUS AND SPORTS FIELD PERIMETER FENCING & GATE MODIFICATIONS, REFER TO AS-103 FOR PLAN DIAGRAM AND A-421 FOR ENLARGED ELEVATIONS, A-512 & A-513 FOR DETAILS & SCHEDULE. FENCING AND GATES SHOWN ON THE ARCHITECTURAL PLANS SHALL SUPERSEDE THOSE SHOWN ON OTHER DISCIPLINES' SITE PLANS.
2. AS-101 & AS-102 DESCRIBE PHASING OF THE WORK. COORDINATE PHASING, INCLUDING UTILITY SHUT DOWN, DEMOLITION OF ALL BUILDINGS & ASSOCIATED STRUCTURES, WITH THE DISTRICT PRIOR TO COMMENCING THE WORK.
3. FUTURE ELECTRIC VEHICLE CHARGING STATIONS (EVCS) ARE SHOWN ON AS-102, WHEN THE PARKING LOT EXTENSION IS CONSTRUCTED IN PHASE 2.
4. REFER TO CIVIL DRAWINGS FOR PARKING LOT LAYOUT, CURBS AND CURB CUTS, DRIVEWAYS, STORM WATER TREATMENT AREAS, STORM DRAINS.
5. REFER TO LANDSCAPE DRAWINGS FOR PARKING LOT AND COURTYARD HARDSCAPE, PLANTING & IRRIGATION PLANS.

MODERNIZATION GENERAL NOTES

1. MODERNIZATION SCOPE IS SHOWN ON AS-104.
2. FOR LOW VOLTAGE SCOPE IN EXISTING CLASSROOMS, REFER TO A-401M AND ELECTRICAL DRAWINGS.
3. FOR CAMPUS FIRE ALARM UPGRADES, REFER TO FIRE ALARM DRAWINGS.
4. FOR CAMPUS CCTV SCOPE OF WORK, REFER TO ELECTRICAL DRAWINGS.
5. FOR DOOR HARDWARE UPGRADES IN EXISTING BUILDINGS, REFER TO ADD ALTERNATES THIS SHEET & A-561M.
6. KINDERGARTEN ROOM 107 TO RECEIVE EXTERIOR ROLLER SHADES AND NEW MANUAL WINDOW SHADES AT EXISTING WINDOWS. REFER TO A-401M.
7. FOR EXTERIOR SOFFIT WORK AT BUILDING A, REFER TO ASD-121 & AS-121.
8. FOR EXTERIOR FENCING & GATES, REFER TO AS-103 & A-421.
9. SELECT CLASSROOMS, OFFICES & ROOMS WITH OCCUPANCY OVER 15 PERSONS TO REMOVE WINDOW BLINDS AND INSTALL MANUAL ROLLER SHADES PER DISTRICT STANDARD, AT WINDOWS WITH SILL BELOW 7'-0", AS SHOWN IN PLAN ON AS-104.TYPICAL WINDOW DIMENSIONS SHOWN ON A-401M. FIELD VERIFY LOCATIONS & WINDOW DIMENSIONS.
10. WINDOW SHADES, BLINDS OR CURTAINS TO REMAIN AT EXISTING WINDOWS WITH SILLS AT OR ABOVE 7'-0" AFF.
11. ALL CLASSROOMS HAVE BEEN SURVEYED TO HAVE EXISTING WALL-MOUNTED FIRE EXTINGUISHERS NEXT TO EXTERIOR DOOR, U.O.N.
12. REFER TO ALTERNATE 2 SCOPE BELOW. AS-BUILT DRAWINGS INCLUDED FOR REFERENCE, FOR MATERIAL TAKE-OFFS. VERIFY WITH DISTRICT LOCATIONS WHERE MURALS HAVE BEEN PAINTED BEFORE PROCEEDING WITH PAINTING OVER. FOR BUILDING AREAS AND HEIGHTS, REFER TO PROJECT DATA ON SHEET G-001.

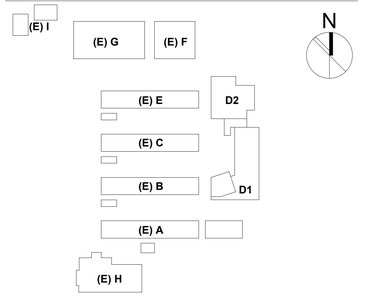
LEGEND

- PROPERTY LINE
- EXISTING < 6'-0" HT. CHAIN LINK FENCE TO REMAIN
- EXISTING 6'-0" HT. CHAIN LINK FENCE TO REMAIN
- EXISTING > 6'-0" HT. CHAIN LINK FENCE TO REMAIN
- EXISTING +/- 8'-0" HT. FENCE AT PROPERTY LINE TO REMAIN
- 6'-0" HT. CHAIN LINK FENCE - SEE DETAILS A-512
- ORNAMENTAL FENCE, 8'-0" HT. AT DOUBLE GATES - SEE DETAILS A-513
- ORNAMENTAL FENCE, 6'-0" HT. - SEE DETAILS A-513
- EXISTING < 6'-0" HT. CHAIN LINK FENCE TO BE REPLACED BY 6'-0" HT. CHAIN LINK FENCE - SEE DETAILS A-512

SITE PLAN SHEET NOTES

1. (E) GAS METER ENCLOSURE TO REMAIN - INSTALL CHAIN LINK COVER TO ENCLOSE TOP W/ GALVANIZED STEEL MESH, DIMENSIONS VIF
2. ENTRY/EXIT DRIVEWAY
3. PAVEMENT MARKINGS PER CIVIL DRAWINGS
4. (E) TREE/TREE CANOPY TO REMAIN, TYP. PROTECT (E) TREES DURING CONSTRUCTION
5. 4" WIDE WHITE PAINTED PARKING STALL MARKINGS, EQUALLY SPACED, TYP.
6. (E) BELOW GRADE ELECTRICAL PULL BOX TO REMAIN
7. (E) 6" WIDE TRENCH DRAIN TO BE DEMOLISHED IN PHASE 2
8. TEMPORARY FIRE ACCESS LANE
9. 6'-0" HT. ORNAMENTAL FENCE, UON. 8'-0" HT ORNAMENTAL FENCE AT GATES - SEE DETAILS A-513
10. ORNAMENTAL GATE - SEE DETAILS A-513
11. FLAG POLE, SEE DET 5/A-613.
12. EXISTING ELECTRICAL EQUIPMENT
13. (E) PG&E ELECTRICAL EQUIPMENT
14. CHAIN LINK FENCE - BLACK PVC COATING - SEE DETAILS A-512
15. 8'-0" HIGH ORNAMENTAL ACCESSIBLE PEDESTRIAN GATE W/ PANIC HARDWARE - SEE DETAILS A-513
16. CHAIN LINK GATE - SEE DETAILS A-512
17. CHAIN LINK FENCE - GALVANIZED STEEL - SEE DETAILS A-512
18. 6'-0"H CHAIN LINK VEHICLE GATE WITH MAN GATE ADJACENT - SEE DETAILS 5/A-421M
19. (E) RAMP TO REMAIN
20. TEMPORARY CHAIN LINK FENCE AND/OR GATE - SEE DETAILS A-512
21. LED MARQUEE SIGN, MIN. 15'-0" TO EXISTING SIDEWALK, OPTION 1: AT BUILDING D ADMIN ENTRY; OPTION 2: AT PARKING LOT ENTRY. FINAL LOCATION TO BE DETERMINED BY THE DISTRICT. FOR POWER REFER TO ELECTRICAL DRAWINGS
22. FOR EXTENT OF FENCING MODIFICATIONS AT SPORTS FIELD, REFER TO AS-103
23. (E) 10' WIDE PUBLIC UTILITY EASEMENT
24. (E) ENCLOSURE, WALK-IN REFR, AND ROOF TO REMAIN
25. EXISTING ACCESSIBLE TOILET
26. ACCESSIBLE TOILET (PHASE 1) - REFER TO ENLARGED ELEVATIONS
27. EXISTING TOILET (NO ACCESSIBLE STALLS)
28. WALKWAY CONCRETE REPAIR REFER TO CIVIL DRAWINGS
29. STAFF BICYCLE STORAGE ROOM
30. PREFABRICATED COVERED WALKWAY - REFER TO DSA PREAPPROVED VERSA CANOPY DRAWINGS (BASIS OF DESIGN)

KEY PLAN



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BRADLEY BURNS & DUBLAVET | BOW and ARROCHER ARMSTRONG BOND PROGRAM TEAM
Building Our Future for Our Students

Redwood City School District

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LICENSED ARCHITECT michael j. myers C-30975 STATE OF CALIFORNIA

Taft Community School - Measure T Phase 1 - New Buildings, Modernization & Site Work

903 Tenth Ave | Redwood City, CA | 94063 |

Date	Issued For
12/15/17	SCHEMATIC DESIGN
04/13/18	100% DESIGN DEVELOPMENT
08/10/18	50% CONSTRUCTION DOCUMENTS
11/21/18	100% CONSTRUCTION DOCUMENTS
12/24/18	DSA SUBMISSION

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San Francisco, California
94108 USA
(415) 981-2345
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PROJECT NUMBER:
2017-03267-000

SHEET TITLE:
SITE PLAN - PHASE 1

SHEET NO:
AS-101

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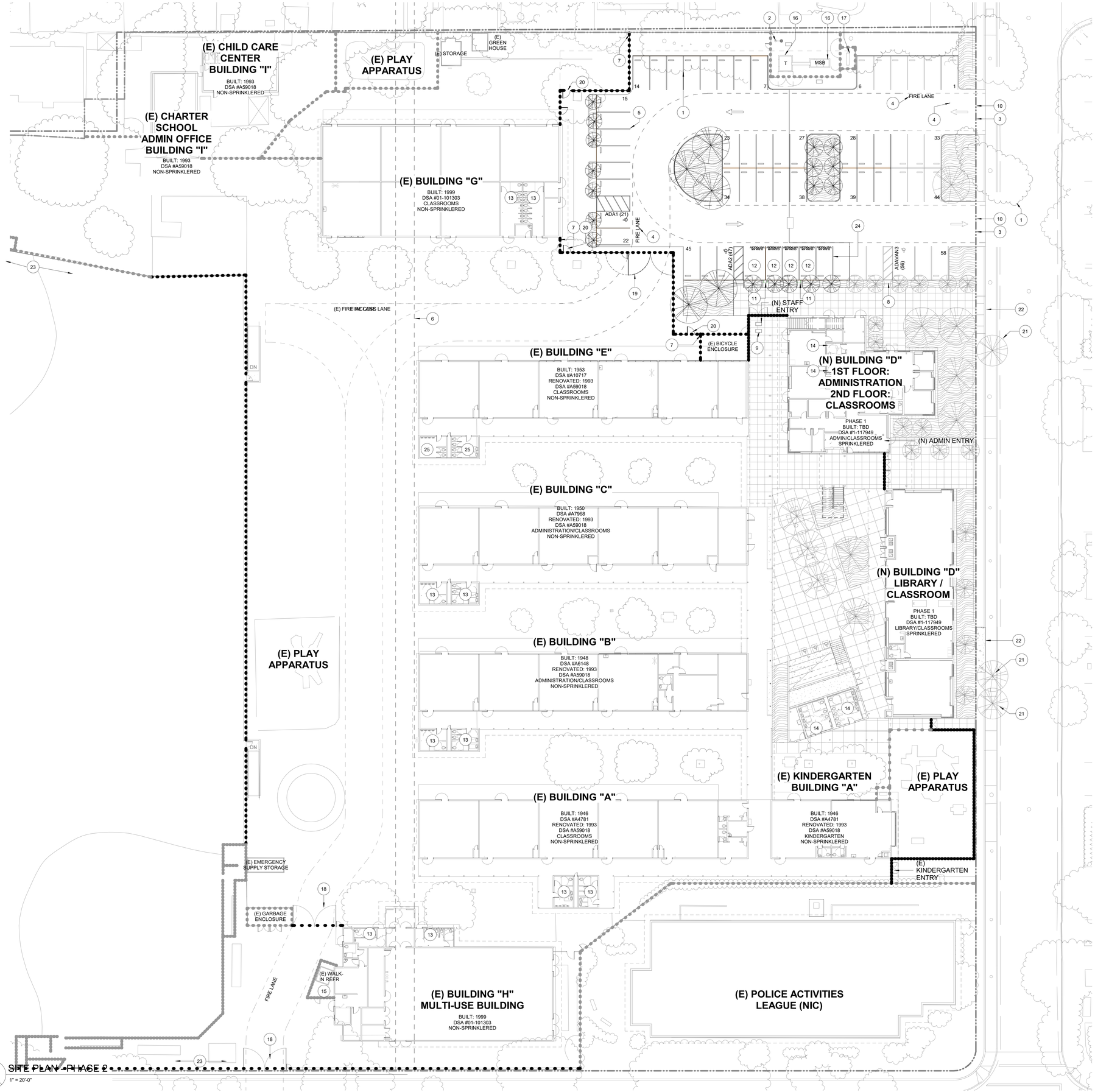

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SITE PLAN - PHASE 2

1" = 20'-0"

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3. FUTURE ELECTRIC VEHICLE CHARGING STATIONS (EVCS) ARE SHOWN ON AS-102, WHEN THE PARKING LOT EXTENSION IS CONSTRUCTED IN PHASE 2.
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7. FOR EXTERIOR SOFFIT WORK AT BUILDING A, REFER TO ASD-121 & AS-121.
8. FOR EXTERIOR FENCING & GATES, REFER TO AS-103 & A-421.
9. SELECT CLASSROOMS, OFFICES & ROOMS WITH OCCUPANCY OVER 15 PERSONS TO REMOVE WINDOW BLINDS AND INSTALL MANUAL ROLLER SHADES PER DISTRICT STANDARD, AT WINDOWS WITH SILL BELOW 7'-0", AS SHOWN IN PLAN ON AS-104.TYPICAL WINDOW DIMENSIONS SHOWN ON A-401M. FIELD VERIFY LOCATIONS & WINDOW DIMENSIONS.
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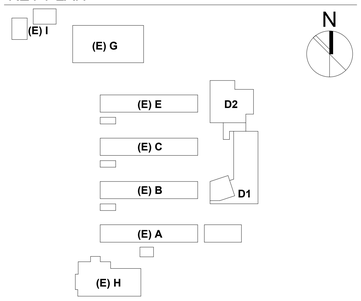
- EXISTING 6'-0" HT. CHAIN LINK FENCE TO REMAIN
- EXISTING > 6'-0" HT. CHAIN LINK FENCE TO REMAIN
- EXISTING +/- 8'-0" HT. FENCE AT PROPERTY LINE TO REMAIN
- 6'-0" HT. CHAIN LINK FENCE - SEE DETAILS A-512
- ORNAMENTAL FENCE, 8'-0" HT. AT DOUBLE GATES - SEE DETAILS A-513
- ORNAMENTAL FENCE, 6'-0" HT. - SEE DETAILS A-513
- EXISTING < 6'-0" HT. CHAIN LINK FENCE TO BE REPLACED BY 6'-0" HT. CHAIN LINK FENCE - SEE DETAILS A-512

SITE PLAN SHEET NOTES

1 (E) TREE/TREE CANOPY TO REMAIN, TYP. PROTECT (E) TREES DURING CONSTRUCTION
2 (E) UTILITY POLE & POLE MOUNTED LIGHT FIXTURE TO REMAIN
3 ENTRY/EXIT DRIVEWAY
4 PAVEMENT MARKINGS PER CIVIL DRAWINGS
5 4" WIDE WHITE PAINTED PARKING STALL MARKINGS, EQUALLY SPACED, TYP.
6 (E) 10' WIDE PUBLIC UTILITY EASEMENT
7 CHAIN LINK FENCE - BLACK PVC COATING - SEE DETAILS A-512
8 TACTILE WARNING SURFACE, TYP. - REFER TO CIVIL DRAWINGS FOR DETAIL
9 (E) BELOW GRADE ELECTRICAL PULL BOX TO REMAIN
10 (E) FIRE LANE
11 PROVIDE POWER FOR FUTURE EV CHARGING STATION
12 FUTURE EVCS PARKING SPACE
13 EXISTING ACCESSIBLE TOILET
14 ACCESSIBLE TOILET (PHASE 1) - REFER TO ENLARGED ELEVATIONS
15 (E) ENCLOSURE, WALK-IN REFR, AND ROOF TO REMAIN
16 EXISTING ELECTRICAL EQUIPMENT
17 (E) GAS METER ENCLOSURE TO REMAIN - INSTALL CHAIN LINK COVER TO ENCLOSE TOP W/ GALVANIZED STEEL MESH, DIMENSIONS VIF
18 PHASE 1 VEHICLE BARRIER/GATE
19 6'-0"H CHAIN LINK VEHICLE GATE WITH MAN GATE ADJACENT - SEE DETAILS 5/A-421M
20 CHAIN LINK GATE - SEE DETAILS A-512
21 STREET TREE AT CURB - COORDINATE PLANTING WITH SCHOOL DISTRICT & CITY AND SEE LANDSCAPE DRAWINGS
22 INFILL SIDEWALK - REFER TO CIVIL DRAWINGS
23 FOR EXTENT OF FENCING MODIFICATIONS AT SPORTS FIELD, REFER TO AS-103
24 PROTECT AND/OR RESTRIPE PHASE 1 STRIPING ADJACENT TO PHASE 2 WORK
25 EXISTING TOILET (NO ACCESSIBLE STALLS)

KEY PLAN



Meet O Choose O Love O RCSD
BUILDING A CLEAN SWEEP FOR ALL SCHOOLS
Building the Future for Our Students

Redwood City School District

750 Bradford St | Redwood City, CA | 94063 | 650.423.2200

LICENSED ARCHITECT michael j. myers STATE OF CALIFORNIA

Taft Community School - Measure T Phase 1 - New Buildings, Modernization & Site Work

903 Tenth Ave | Redwood City, CA | 94063 |

Date	Issued For
12/15/17	SCHEMATIC DESIGN
04/13/18	100% DESIGN DEVELOPMENT
08/10/18	50% CONSTRUCTION DOCUMENTS
11/21/18	100% CONSTRUCTION DOCUMENTS
12/24/18	DSA SUBMISSION

HED
417 Montgomery Street
Suite 400
San Francisco, California
94108 USA
(415) 981-2345
WWW.HED.DESIGN

© 2018

PROJECT NUMBER:
2017-03267-000

SHEET TITLE:
SITE PLAN - PHASE 2 & CAMPUS MODERNIZATION

SHEET NO:
AS-102

Appendix B
Site Photos

Redwood City School District
Site Photos – Taft Community School Modernization Project

Facing northwest, perpendicular to Page Street

Facing west, near the northern boundary of campus

Center of campus, facing southwest

Center of campus, facing northwest

Facing eastward across main parking lot

Facing northwest, parallel Bay Road

Source: School Site Solutions, Inc.	**Site Photos** Redwood City School District Taft Community School Modernization Project	SSS

Appendix C
CalEEMod Analysis

Taft Community School

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	21.50	1000sqft	0.49	21,500.00	0
Enclosed Parking Structure	33.00	Space	0.30	13,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	5			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Off-road Equipment -

Demolition -

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	OperationalYear	2018	2021

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	5.6000e-004	0.0000	5.6000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.6000e-004**	**0.0000**	**5.6000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**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	5.6000e-004	0.0000	5.6000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.6000e-004**	**0.0000**	**5.6000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**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	0.0964	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.7000e-004	9.7000e-004	0.0000	0.0000	1.0400e-003
Energy	1.9200e-003	0.0174	0.0147	1.0000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	72.5363	72.5363	2.7900e-003	8.5000e-004	72.8589
Mobile	0.0623	0.2983	0.6908	2.3200e-003	0.1945	2.1700e-003	0.1966	0.0522	2.0300e-003	0.0542	0.0000	213.0501	213.0501	8.2000e-003	0.0000	213.2551
Waste						0.0000	0.0000		0.0000	0.0000	5.6736	0.0000	5.6736	0.3353	0.0000	14.0561
Water						0.0000	0.0000		0.0000	0.0000	0.1978	2.6136	2.8114	0.0204	5.0000e-004	3.4725
Total	**0.1606**	**0.3157**	**0.7059**	**2.4200e-003**	**0.1945**	**3.5000e-003**	**0.1980**	**0.0522**	**3.3600e-003**	**0.0556**	**5.8714**	**288.2010**	**294.0724**	**0.3667**	**1.3500e-003**	**303.6437**

2.2 Overall Operational

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	0.0964	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.7000e-004	9.7000e-004	0.0000	0.0000	1.0400e-003
Energy	1.9200e-003	0.0174	0.0147	1.0000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	72.5363	72.5363	2.7900e-003	8.5000e-004	72.8589
Mobile	0.0623	0.2983	0.6908	2.3200e-003	0.1945	2.1700e-003	0.1966	0.0522	2.0300e-003	0.0542	0.0000	213.0501	213.0501	8.2000e-003	0.0000	213.2551
Waste						0.0000	0.0000		0.0000	0.0000	5.6736	0.0000	5.6736	0.3353	0.0000	14.0561
Water						0.0000	0.0000		0.0000	0.0000	0.1978	2.6136	2.8114	0.0204	5.0000e-004	3.4725
Total	**0.1606**	**0.3157**	**0.7059**	**2.4200e-003**	**0.1945**	**3.5000e-003**	**0.1980**	**0.0522**	**3.3600e-003**	**0.0556**	**5.8714**	**288.2010**	**294.0724**	**0.3667**	**1.3500e-003**	**303.6437**

	ROG	NOx	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	Architectural Coating	Architectural Coating	6/3/2019	6/2/2019	5	5	
2	Building Construction	Building Construction	6/3/2019	6/2/2019	5	100	
3	Demolition	Demolition	6/3/2019	6/2/2019	5	10	
4	Grading	Grading	6/3/2019	6/2/2019	5	2	
5	Paving	Paving	6/3/2019	6/2/2019	5	5	
6	Site Preparation	Site Preparation	6/3/2019	6/2/2019	5	1	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.3

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 32,250; Non-Residential Outdoor: 10,750; Striped Parking Area: 792 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	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
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	15.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	89.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	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 Architectural Coating - 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					
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**

3.2 Architectural Coating - 2019

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**

3.3 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**

3.3 Building Construction - 2019

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**

3.4 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					
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**

3.4 Demolition - 2019

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 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**

3.5 Grading - 2019

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**

3.6 Paving - 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
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**

3.6 Paving - 2019

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 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**

3.7 Site Preparation - 2019

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**

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	0.0623	0.2983	0.6908	2.3200e-003	0.1945	2.1700e-003	0.1966	0.0522	2.0300e-003	0.0542	0.0000	213.0501	213.0501	8.2000e-003	0.0000	213.2551
Unmitigated	0.0623	0.2983	0.6908	2.3200e-003	0.1945	2.1700e-003	0.1966	0.0522	2.0300e-003	0.0542	0.0000	213.0501	213.0501	8.2000e-003	0.0000	213.2551

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Elementary School	331.75	0.00	0.00	522,484	522,484
Enclosed Parking Structure	0.00	0.00	0.00		
Total	331.75	0.00	0.00	522,484	522,484

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
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Enclosed Parking Structure	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
Elementary School	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Enclosed Parking Structure	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789

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	53.5481	53.5481	2.4200e-003	5.0000e-004	53.7579
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	53.5481	53.5481	2.4200e-003	5.0000e-004	53.7579
NaturalGas Mitigated	1.9200e-003	0.0174	0.0147	1.0000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	18.9882	18.9882	3.6000e-004	3.5000e-004	19.1010
NaturalGas Unmitigated	1.9200e-003	0.0174	0.0147	1.0000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	18.9882	18.9882	3.6000e-004	3.5000e-004	19.1010

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					
Elementary School	355825	1.9200e-003	0.0174	0.0147	1.0000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	18.9882	18.9882	3.6000e-004	3.5000e-004	19.1010
Enclosed Parking Structure	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		**1.9200e-003**	**0.0174**	**0.0147**	**1.0000e-004**		**1.3300e-003**	**1.3300e-003**		**1.3300e-003**	**1.3300e-003**	**0.0000**	**18.9882**	**18.9882**	**3.6000e-004**	**3.5000e-004**	**19.1010**

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					
Elementary School	355825	1.9200e-003	0.0174	0.0147	1.0000e-004		1.3300e-003	1.3300e-003		1.3300e-003	1.3300e-003	0.0000	18.9882	18.9882	3.6000e-004	3.5000e-004	19.1010
Enclosed Parking Structure	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		**1.9200e-003**	**0.0174**	**0.0147**	**1.0000e-004**		**1.3300e-003**	**1.3300e-003**		**1.3300e-003**	**1.3300e-003**	**0.0000**	**18.9882**	**18.9882**	**3.6000e-004**	**3.5000e-004**	**19.1010**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	97610	28.3959	1.2800e-003	2.7000e-004	28.5071
Enclosed Parking Structure	86460	25.1522	1.1400e-003	2.4000e-004	25.2508
Total		**53.5481**	**2.4200e-003**	**5.1000e-004**	**53.7579**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	97610	28.3959	1.2800e-003	2.7000e-004	28.5071
Enclosed Parking Structure	86460	25.1522	1.1400e-003	2.4000e-004	25.2508
Total		**53.5481**	**2.4200e-003**	**5.1000e-004**	**53.7579**

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	0.0964	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.7000e-004	9.7000e-004	0.0000	0.0000	1.0400e-003
Unmitigated	0.0964	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.7000e-004	9.7000e-004	0.0000	0.0000	1.0400e-003

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	0.0115					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0848					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.7000e-004	9.7000e-004	0.0000	0.0000	1.0400e-003
Total	**0.0964**	**0.0000**	**5.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**9.7000e-004**	**9.7000e-004**	**0.0000**	**0.0000**	**1.0400e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0115					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0848					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.7000e-004	9.7000e-004	0.0000	0.0000	1.0400e-003
Total	**0.0964**	**0.0000**	**5.0000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**9.7000e-004**	**9.7000e-004**	**0.0000**	**0.0000**	**1.0400e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.8114	0.0204	5.0000e-004	3.4725
Unmitigated	2.8114	0.0204	5.0000e-004	3.4725

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	0.623434 / 1.60312	2.8114	0.0204	5.0000e-004	3.4725
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**2.8114**	**0.0204**	**5.0000e-004**	**3.4725**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	0.623434 / 1.60312	2.8114	0.0204	5.0000e-004	3.4725
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**2.8114**	**0.0204**	**5.0000e-004**	**3.4725**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.6736	0.3353	0.0000	14.0561
Unmitigated	5.6736	0.3353	0.0000	14.0561

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Elementary School	27.95	5.6736	0.3353	0.0000	14.0561
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**5.6736**	**0.3353**	**0.0000**	**14.0561**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Elementary School	27.95	5.6736	0.3353	0.0000	14.0561
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**5.6736**	**0.3353**	**0.0000**	**14.0561**

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
Biological Survey Report

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

February 13, 2019
Project No. 1902-0021

School Site Solutions
2015 H Street
Sacramento, CA 95811

Attention: John Dominguez

Subject: Biological Study Report for the Taft Elementary School Modernization Project

Dear Mr. Dominguez:

Padre Associates, Inc., under contract to the School Site Solutions has completed a desktop study and preliminary windshield survey of the proposed modernization project (Project) at the Taft Elementary School,

1.0 PROJECT DESCRIPTION

The Project involves the modernization of an existing school campus. The Project does not include any development on previously undeveloped land. Project plans were not available at the time of the study, so the details of the modernization project are not discussed.

2.0 METHODS

A query of the California Natural Diversity Database (CNDDB) and the Biogeographical Information and Observation System (BIOS) to determine if sensitive species and habitats occur in close proximity to the Project (CDFW, 2019) (Attachments 1 and 2). An unofficial species list from the U. S. Fish and Wildlife was acquired and National Wetland Inventory maps and aerial imagery were reviewed to determine if areas of concern could be identified prior to surveys. The Project is in a highly urban area and is approximately one mile from the shoreline of the San Francisco Bay and tidally influenced saltmarsh habitat.

A windshield survey of the Project Site was conducted on January 23, 2019. During the surveys, adjacent roads were driven slowly and stopped at available pullouts where trees on campus and near the campus were observed, searching for previous seasons' raptor nests. Additionally, the perimeter of the Taft Elementary School was surveyed for sensitive habitats such as Waters of the U.S. and wetlands.

3.0 RESULTS

3.1 VEGETATION

The proposed Project Site is entirely within developed lands consisting of the existing school campus. Tree species located at or near the Project Site include: coastal redwood (*Sequoia sempervirens*), American elm (*Ulmus americana*), and other ornamental trees.

3.2 WILDLIFE

During the windshield survey, all wildlife observed within the Project site were typical species associated with developed or urban areas**.** Species observed on the Project Site include American crow *(Corvus brachyrhynchos)* and California scrub-jay *(Aphelocoma californica)*. No previous seasons' nests were observed within trees onsite.

3.3 WETLANDS

No wetlands were mapped onsite by National Wetland Inventory (USFWS, 2019) or observed during surveys.

3.4 SPECIAL-STATUS SPECIES

A review of CNDDB and BIOS did not indicate recorded occurrences of special-status species on or near the Project (Attachment 2). The San Francisco gartersnake (*Thamnophis sirtalis tetrataenia)*, occurs within the Palo Alto USGS 7.5-minute quadrangle and appears within all queries of the quadrangle regardless of project location; however, this species would not occur onsite due to the lack of suitable habitat. The USFWS species list identified several federally-listed species that could occur within the region of the Project, however, suitable habitat is not present onsite for any of the species. An analysis of the likelihood of occurrence for each species identified within CNDDB or the USFWS List was conducted for this Project Site on the basis of species ranges, previous observations, contemporary sightings, and presence of suitable habitat elements on the Site. See Table 1 for the likelihood of occurrence analysis.

Three sensitive raptors, White-tailed kite (*Elanus leucurus*), Cooper's hawk (*Accipiter cooperii*) and sharp-shinned hawk (*Accipiter striatus*) have the potential to nest within trees onsite.

Table 1. Special-Status Species Potentially Occurring in the Vicinity of the Taft Elementary School Modernization Project

Scientific Name	Common Name	Status[1]	Habitat	Likelihood of Occurrence	Rationale
PLANTS					
Acanthomintha obovata ssp. duttonii	San Mateo thornmint	FE, SE, 1B.1	Chaparral and valley and foothill grassland in serpentine soils at elevations between 150 and 900 feet elevation. Blooms from April to June	None	No suitable habitat is present at the Project Site.
Amsinckia lunaris	Bent-flowered fiddleneck	CNPS 1B.2	Cismontane woodland and valley and foothill grassland that blooms from March-June at 0 to 1600 feet elevation.	None	No suitable habitat is present at the Project Site.
Cirsium fontinale var. fontinale	Crystal Springs fountain thistle	FE, SE, 1B.1	Cismontane woodland, valley and foothill grasslands, Chaparral (openings), and Serpentinite seeps, at elevations between 125 and 525 feet. Blooms from May to October.	None	No suitable habitat is present at the Project Site.
Hesperolinon congestum	Marin dwarf-flax	FT, ST, CNPS 1B.1	Serpentinite soil in chaparral and valley and foothill grassland. Blooms from April–July between 15 to 1100 feet elevation	None	No suitable habitat is present at the Project Site.
Trifolium amoenum	two-fork clover	FT, CNPS 1B.1	Coastal bluff scrub and valley and foothill grassland. Blooms from April–June from 15 to 1250 feet elevation	None	No suitable habitat is present at the Project Site.
INVERTEBRATES					
Callophrys mossii bayensis	San Bruno elfin butterfly	FE	Coastal bluffs and rocky slopes. Feeds on plants in the Crassulaceae family.	None	No suitable habitat is present at the Project Site.

Table 1. Special-Status Species Potentially Occurring in the Vicinity of the Taft Elementary School Modernization Project

Scientific Name	Common Name	Status[1]	Habitat	Likelihood of Occurrence	Rationale
Euphydryas editha bayensis	Bay checkerspot butterfly	FT	Shallow soils derived from serpentine. Primary host plants are *Plantago erecta*, *Castilleja densiflora*, and *Castilleja exserta*.	None	No suitable habitat is present at the Project Site.
FISHES					
Hypomesus transpacificus	Delta smelt	FT, SE	Sacramento and San Joaquin River Delta	None	No suitable habitat is present at the Project Site.
AMPHIBIANS					
Ambystoma californiense	California tiger salamander	FT, ST	Seasonal pools and stockponds for breeding habitat. Needs underground refuges, especially ground squirrel burrows as upland habitat.	None	No suitable habitat is present at the Project Site.
Rana draytonii	California red-legged frog	FT, CSC	Found in marshes, lakes, reservoirs, ponds, slow moving segments of streams, and other usually permanent water in lowlands, foothill woodlands, and grasslands. Requires aquatic habitat with extensive emergent vegetation.	None	No suitable habitat is present at the Project Site.
REPTILES					
Chelonia mydas	Green sea turtle	FT	Green turtles are generally found in fairly shallow waters (except when migrating) inside reefs, bays, and inlets	None	No suitable habitat is present at the Project Site.

Table 1. Special-Status Species Potentially Occurring in the Vicinity of the Taft Elementary School Modernization Project

Scientific Name	Common Name	Status[1]	Habitat	Likelihood of Occurrence	Rationale
Thamnophis sirtalis tetrataenia	San Francisco gartersnake	FE, SE	Densely vegetated ponds near an open hillside where they can sun themselves, feed, and find cover in rodent burrows	None	No suitable habitat is present at the Project Site.
BIRDS					
Accipiter cooperii	Cooper's hawk	M, WL	Dense tree stands or patchy woodland habitat and a frequent visitor of urban areas with suitable trees.	Low-Moderate	Suitable nesting habitat is present onsite. No previous year's nests were observed at the Project Site; however, suitable nest trees occur onsite and are proposed for removal.
Accipiter striatus	Sharp-shinned hawk	M, WL	Typically builds nests within woodland habitat where they forage on small birds. Species is a frequent visitor of urban areas with suitable trees.	Low-Moderate	Suitable nesting habitat is present onsite. No previous year's nests were observed at the Project Site; however, suitable nest trees occur onsite and are proposed for removal.
Aquila chrysaetos	Golden eagle	M, FP, BCC	Forages over open grasslands, savannahs, and deserts. Nests in large trees or cliffs.	None	No suitable nesting or foraging habitat is present at the Project Site.
Brachyramphus marmoratus	Marbled murrelet	M, FT, SE	Nests in dense shady forests are generally characterized by large trees with large branches for use as nest platforms	None	No suitable habitat is present at the Project Site.
Charadrius alexandrines nivosus	western snowy plover	M, FT, CSC	Nests on sandy beaches and dunes by creating a shallow depression as a nest, using driftwood, rocks, or bushes as cover	None	No suitable habitat is present at the Project Site.
Elanus leucurus	White-tailed kite	M, FP	Scattered oaks and river bottomlands or marshes next to deciduous woodland. Forages over grasslands, marshes, and oak	Low-Moderate	Suitable nesting habitat is present onsite. No previous year's nests were observed at the Project Site; however, suitable nest

Table 1. Special-Status Species Potentially Occurring in the Vicinity of the Taft Elementary School Modernization Project

Scientific Name	Common Name	Status[1]	Habitat	Likelihood of Occurrence	Rationale
			savannas close to isolated, dense-topped trees for nesting and perching.		trees occur onsite and are proposed for removal.
Rallus obsoletus obsoletus	California Ridgway's rail	M, FE, SE, FP	Requires marshland or sloughs with direct tidal influence.	None	Suitable marsh habitat does not occur within one mile of the Project Site.
Sternula antillarum browni	California least tern	M, FE, SE, FP	Breeds in the San Francisco Bay Area but overwinters in southern Mexico and Central America. Breeds on sandy coastal beaches, estuaries, lagoons, bays, and along freshwater lakes near the coast.	None	No suitable habitat is present at the Project Site.
MAMMALS					
Reinthrodontomys raviventris	Salt-marsh harvest mouse	FE, SE, FP	Salt marshes with dense pickleweed cover.	None	No suitable habitat is present at the Project Site.

[1] Status:
FE = Federal Endangered
FT = Federal Threatened
FC = Federal Candidate
SE = California State Endangered
ST = California State Threatened

CNPS 1B.1 = Threatened in California and elsewhere, seriously threatened in California
CNPS 1B.2 = Threatened in California and elsewhere, moderately threatened in California
CSC = California Species of Special Concern
FP = CDFW Fully Protected
FSS = USFS Sensitive Species
BCC = USFWS Bird of Conservation Concern
WL-CDFW Watchlist
M= Federal Migratory Bird Treaty Act

4.0 CONCLUSIONS AND RECOMMENDATIONS

In accordance with the Board of Education Resolution No. 13, the Taft School Modernization Project is exempt from City and County zoning ordinances, including the City of Redwood City Tree Ordinance. Therefore, tree surveys and tree removal permits consistent with the requirements of the Redwood City Tree Ordinance are not required for tree removal associated with modernization of the school site.

A reconnaissance-level survey for biological resources was conducted within the proposed Project Site and no wetlands, Waters of the U.S. or special-status species habitat was observed; therefore, the modernization project will have no significant impact on special-status species or sensitive and regulated habitat.

Trees onsite, both those planned for removal and those that are retained, could provide nesting habitat for raptors or other birds protected under the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code. Following are recommendations to minimize potential impacts of the Project to nesting raptors and species protected by the MBTA.

Nesting Birds

Trees proposed for removal could provide nesting habitat for birds protected under the MBTA and California Fish and Game Code. Additionally, trees not proposed for removal but located adjacent to proposed impact areas with high levels of construction disturbance, could affect could the breeding success of the birds (particularly raptors) protected under the MBTA and California Fish and Game Code (Sections 3503, 3503.5, and 3800). These laws and regulations prohibit the take, possession, or destruction of birds, their nests, or eggs. Disturbance that causes nest abandonment and/or loss of reproductive effort could be considered a “take”.

The following measures are recommended to avoid or mitigate Project impacts to protected nesting bird species:

- Schedule tree removal and construction activities to begin prior to the beginning of nesting activity (March 1) or after fledging (September 1).
- If this is infeasible, conduct pre-construction surveys between March 1 and August 15 in potential nesting habitat to identify nest sites. Surveys should be conducted within one week of tree removal and the start of construction to identify active nests prior to the initiation of construction activities. If an active raptor nest is observed within 350 feet of the Project Site, contact California Department of Fish and Wildlife (CDFW) for guidance and/or establish a 350-foot buffer around the nest tree. If a passerine bird nest is observed within 100 feet of the Project Site, contact CDFW for guidance and/or establish a 100-foot buffer around the nest tree. If construction activities cannot be prohibited within the established buffers until young have fledged consultation with CDFW should be conducted for a reduced buffer zone based on nesting phenology, site conditions, and recommendation(s) of a biological monitor. Prohibit construction activities in the buffer zone until the young have fledged.

Thank you for the opportunity to work on this Project, and please call me if you have any questions regarding these findings

Sincerely,

Padre Associates, Inc.

Kevin Crouch
Project Biologist

Attachments: 1. CNDDB Query Summary Table

2. BIOS Map of Special-Status Species Occurrences

5.0 LITERATURE CITED

California Department of Fish and Game. 2019. California Natural Diversity Data Base (CNDDB) RAREFIND-4 Query and BIOS map queries for species occurrences within one mile of the Taft School Modernization Project Site. California Department of Fish and Game. Sacramento, CA.

City of Redwood City, 2018. City of Redwood City Municipal Code Chapter 35 Tree Preservation Ordinance.

U.S. Fish and Wildlife Service. 2019. National Wetland Inventory-Wetland Mapper. Website: http://www.fws.gov/wetlands/Data/Mapper.html

U.S. Fish and Wildlife Service, 2019. Unofficial Species List for John Gill Elementary School Modernization Project. Sacramento, CA

ATTACHMENT 1

CNDDB QUERY SUMMARY TABLE

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: BIOS selection

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Amsinckia lunaris bent-flowered fiddleneck	G3 S3	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive		86 S:1	0	0	0	0	0	1	1	0	1	0	0
Bombus occidentalis western bumble bee	G2G3 S1	None None	USFS_S-Sensitive XERCES_IM-Imperiled	20 20	282 S:1	0	0	0	0	0	1	1	0	1	0	0
Charadrius alexandrinus nivosus western snowy plover	G3T3 S2S3	Threatened None	CDFW_SSC-Species of Special Concern NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern	0 0	138 S:1	0	0	0	0	0	1	0	1	1	0	0
Coturnicops noveboracensis yellow rail	G4 S1S2	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern NABCI_RWL-Red Watch List USFS_S-Sensitive USFWS_BCC-Birds of Conservation Concern	10 10	45 S:1	0	0	0	0	0	1	1	0	1	0	0
Dipodomys venustus venustus Santa Cruz kangaroo rat	G4T1 S1	None None		5 5	14 S:1	0	0	0	0	1	0	1	0	0	1	0
Lasiurus cinereus hoary bat	G5 S4	None None	IUCN_LC-Least Concern WBWG_M-Medium Priority		238 S:1	0	0	0	0	0	1	1	0	1	0	0
Northern Coastal Salt Marsh Northern Coastal Salt Marsh	G3 S3.2	None None			53 S:1	0	0	0	0	0	1	1	0	1	0	0
Rallus obsoletus obsoletus California Ridgway's rail	G5T1 S1	Endangered Endangered	CDFW_FP-Fully Protected NABCI_RWL-Red Watch List	1 1	99 S:1	1	0	0	0	0	0	0	1	1	0	0
Reithrodontomys raviventris salt-marsh harvest mouse	G1G2 S1S2	Endangered Endangered	CDFW_FP-Fully Protected IUCN_EN-Endangered	0 0	144 S:1	0	0	1	0	0	0	1	0	1	0	0

Summary Table Report

California Department of Fish and Wildlife

California Natural Diversity Database

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Sternula antillarum browni	G4T2T3Q	Endangered	CDFW_FP-Fully Protected NABCI_RWL-Red Watch List	1	75	0	0	0	0	1	0	1	0	0	0	1
California least tern	S2	Endangered		1	S:1											
Thamnophis sirtalis tetrataenia	G5T2Q	Endangered	CDFW_FP-Fully Protected	350	67	0	0	0	0	0	1	1	0	1	0	0
San Francisco gartersnake	S2	Endangered		350	S:1											

ATTACHMENT 2

BIOS MAP OF SPECIAL-STATUS SPECIES OCCURRENCES

CNDDB GEOSPATIAL DATA IS CONFIDENTIAL – FIGURE AVAILABLE UPON REQUEST

Appendix E
Resolution No. 13 Exemption from Local Zoning Ordinances

RESOLUTION NO. 13

RESOLUTION OF THE BOARD OF EDUCATION
REDWOOD CITY SCHOOL DISTRICT
EXEMPTION FROM LOCAL ZONING ORDINANCES

WHEREAS, Redwood City School District ("District") is a school district duly organized and validly existing under the laws of the State of California, and whose boundaries include Redwood City and portions of the City of San Carlos, the City of Menlo Park, the Town of Atherton, and unincorporated portions of the San Mateo County;

WHEREAS, District currently maintains the following campuses for educational purposes (referred to collectively herein as "School Sites"):

SCHOOL	ADDRESS
Adelante Spanish Immersion School	3150 Granger Way Redwood City, CA 94061
Clifford Elementary School	225 Clifford Avenue Redwood City, CA 94062
Fair Oaks Community School	2950 Fair Oaks Avenue Redwood City, CA 94063
Garfield Elementary School	3600 Middlefield Road Menlo Park, CA 94025
Hawes Elementary School	909 Roosevelt Avenue Redwood City, CA 94061
Henry Ford Elementary School	2498 Massachusetts Avenue Redwood City, CA 94061
Hoover Elementary School	701 Charter Street Redwood City, CA 94063
John F. Kennedy Middle School	2521 Goodwin Avenue Redwood City, CA 94061
John Gill Elementary School	555 Avenue del Ora Redwood City, CA 94062
McKinley Institute of Technology	400 Duane Street Redwood City, CA 94062
North Star Academy	400 Duane Street Redwood City, CA 94062
Orion Alternative School	815 Allerton Street Redwood City, CA 94063
Roosevelt Elementary School	2223 Vera Avenue Redwood City, CA 94061
Roy Cloud Elementary School	3790 Red Oak Way Redwood City, CA 94062
Selby Lane Elementary School	170 Selby Lane Atherton, CA 94027
Taft Community School	903 10th Avenue Redwood City, CA 94063

WHEREAS, the District may from time to time construct, modernize, and/or renovate certain facilities on the School Sites to provide educational services in order to serve the surrounding community (the "Project");

ATTACHMENT A

WHEREAS, California Government Code Section 53094 authorizes District, by a vote of two-thirds of the members of its Governing Board, to render city or county zoning ordinances inapplicable to the Project and School Sites when used for educational purposes;

WHEREAS, the current and proposed uses of the Project and School Sites is for educational purposes and the Project and School Sites are subject to design review by the Division of the State Architect ("DSA") under California Education Code Section 17280, *et seq.*; and

WHEREAS, District has balanced the interests of the public, including those of the District and those of Redwood City, the City of San Carlos, the City of Menlo Park, the Town of Atherton, and San Mateo County, and determined that the interests of the public are best served by operating the School Sites and commencing and completing the Project according to applicable state laws along with all other educational uses on the School Sites.

NOW THEREFORE, THE GOVERNING BOARD OF THE REDWOOD CITY SCHOOL DISTRICT DOES HEREBY RESOLVE, DETERMINE AND ORDER AS FOLLOWS:

Section 1. That all of the above recitals are correct.

Section 2. That, to the extent applicable for each school included in the School Sites, the District hereby exempts the School Sites from any zoning ordinances of:

(a) Redwood City including, without limitation, Redwood City's Code of Ordinances, Redwood City's General Plan, and related ordinances and regulations which otherwise would be applicable;

(b) The City of San Carlos including, without limitation, the San Carlos Municipal Code, San Carlos' General Plan, and related ordinances and regulations which otherwise would be applicable;

(c) The City of Menlo Park including, without limitation, the Menlo Park Municipal Code, Menlo Park's General Plan, and related ordinances and regulations which otherwise would be applicable;

(d) The Town of Atherton including, without limitation, the Atherton Municipal Code, Atherton's General Plan, and related ordinances and regulations which otherwise would be applicable; and

(e) San Mateo County including, without limitation, San Mateo County's Code of Ordinances, San Mateo County's General Plan, and related ordinances and regulations which would otherwise be applicable.

Section 3. That the Superintendent of the Redwood City School District, or his designee, is directed to give written notice to Redwood City, the City of San Carlos, the City of Menlo Park, the Town of Atherton, and San Mateo County as required by Government Code Section 53094 within ten (10) days of this action.

APPROVED, PASSED, AND ADOPTED by the Board of Education of the Redwood City School District at a public meeting duly called and held on this November 9th, 2016, by the following vote:

AYES: 5

NOES: 0

ABSTENTIONS: 0

President

ATTEST:

Clerk

Resolution No. 13

STATE OF CALIFORNIA)
)
SAN MATEO COUNTY)

I, María Díaz-Slocum, do hereby certify that the foregoing is a true and correct copy of Resolution No. 13, which was duly adopted by the Board of Education of the Redwood City School District at the meeting thereof held on the 9 of November, 2016, and that it was so adopted by the following vote:

AYES: 5
NOES: 0
ABSENT: 0
ABSTENTIONS: 0

María Díaz-Slocum
Clerk of the Board of Education

Appendix F
CDE/CCR Title 5 Geologic and Safety Hazards Evaluation

CDE/CCR Title 5
Geologic and Safety Hazards Evaluation

Taft Community School

903 10th Avenue
Redwood City, San Mateo County, CA

Prepared for:

Redwood City School District
Redwood City, California

July 17, 2017

Prepared by:

McCloskey Consultants, Inc.

CDE/CCR TITLE 5 GEOLOGIC AND SAFETY HAZARDS EVALUATION

Taft Community School

903 10th Avenue
Redwood City, San Mateo County, CA

July 17, 2017

Prepared for:

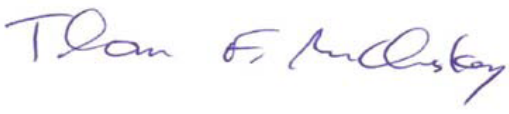
Redwood City School District

Prepared by:

McCloskey Consultants, Inc.

420 Sycamore Valley Road West

Danville, CA 94526



Belinda Blackie, P.E
Environmental Engineer

Thomas F. McCloskey, P.G., C.E.G., C.Hg.
Principal Geologist

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Appendix A EDR Regulatory Agency Database Report

1.0 INTRODUCTION

Redwood City School District retained McCloskey Consultants, Inc. (MCI) to perform a CDE/CCR Title 5 Safety Hazards Evaluation (geohazards evaluation) for the proposed demolition/relocation and replacement of existing school facilities at Taft Community School, located at 903 10th Avenue in Redwood City, California. The purpose of this assessment was to identify geologic and other safety hazards associated with the property, in general accordance with California Education Code 17212.5 for geologic studies and California Department of Education (CDE)/California Code of Regulations (CCR), Title 5, Sections 14010, et. seq. for environmental studies. McCloskey Consultants, Inc. also recently prepared and submitted a Phase I Environmental Site Assessment for this property (MCI, 2017).

The scope of investigative activities and initial findings are summarized in the following sections. This geohazards evaluation has been prepared by MCI for the sole use of the Redwood City School District (User).

2.0 SITE DESCRIPTION

2.1 Location

The Site is located in Section 21, Township 5 South, Range 3 West, Mt. Diablo baseline and meridian, within the City of Redwood City, San Mateo County, California (Figures 1 and 2). The Site is within the Palo Alto Quadrangle, California USGS 7½-minute series and San Francisco, California 15-minute series topographic maps; the longitude and latitude of the Site are identified as 37.4810080 north and 122.1944250 west.

The Site consists of one parcel with no APN identified by the San Mateo County Assessor's office or the User of this study. The school property, which includes the study area within the school (Site), has a street address of 903 10th Avenue, Redwood City, and is bordered by residences to the north, Bay Road to the south, 8th Avenue to the west, and 10th Avenue to the east.

2.2 General Characteristics

The irregularly-shaped property consists of land totaling 7.56 acres. The property is located in a primarily residential area of Redwood City, is developed with three single-story, permanent classroom buildings (also including a staff lounge and teacher work room), the library and technology lab, one portable structure and a portion of a second portable structure (housing the Taft Child Development Center and Taft Family Center, respectively), an unpaved garden/outdoor classroom area including several small storage structures, and associated

landscaping, play area, and asphalt-paved play, lunch, parking, and driveway areas. Topography of the site was generally level and flat, with no unusual depressions. Hazardous materials or wastes were not observed.

2.3 Topography

Based on review of the regulatory agency database report and the USGS 7.5-minute Palo Alto, California topographic map, the Site elevation is approximately 14 feet above mean sea level. Topography on the Site is generally flat, with the vicinity having a gentle slope towards the north.

2.4 Historical Usage

Based on a review of historical aerial photographs and topographic maps, as well as information provided by the property owner, the initial Taft School building, the southern-most classroom building, was constructed on the Site in 1947. Construction of the other classroom building and library followed between 1948 and 1953. The northern area of the Site was undeveloped prior to construction of a small building on the northeastern portion in the mid-1960s and the existing Taft Family Center structure in 1968. The buildings were modified throughout the 1990s, and the Taft Child Development Center structure was completed in 1999.

3.0 GEOLOGIC EVALUATION

3.1 Regional Geology

Redwood City is located along the western margin of the San Francisco Bay, within the Coast Ranges geomorphic province. The Coast Ranges province is characterized by northwest-trending mountain ranges and valleys subparallel to the San Andreas Fault.

3.2 Site Geology and Soils

Soils in the vicinity of the Site are categorized by the USDA Soil Conservation Service as Urban Land. Urban Land soils are partially hydric, clayey soils with a high water table or located shallow to an impervious layer, and having very slow infiltration rates.

3.3 Groundwater

The Site is located within the Santa Clara Valley Groundwater Basin, San Mateo Plain Subbasin. The aquifer system in the subbasin consists of the Santa Clara Formation and Quaternary-age alluvial deposits. The Santa Clara Formation is comprised of Plio-Pleistocene-age materials. The Quaternary alluvium is the most significant water-bearing formation in the Subbasin.

Based on vicinity hydrogeological information available on the Geotracker database, shallow groundwater likely is encountered at a depth of approximately 3 to 12 feet beneath ground surface. The groundwater flow direction has been documented generally towards the north (Geotracker, 2017).

4.0 GEOLOGIC HAZARDS ANALYSIS

4.1 Fault Rupture Hazard Evaluation

The Alquist-Priolo Earthquake Fault Zoning Act was passed by the State of California in 1972, to mitigate earthquake hazards to human-occupied structures. Specifically, the Alquist-Priolo Act was designed to prevent construction of structures designed for human occupation on active surface faults. The California Geological Survey (CGS) has prepared a series of maps delineating established Earthquake Fault Zones under the Alquist-Priolo Act. Structures proposed for construction within an identified Earthquake Fault Zone require geologic investigation to confirm the structures will not be constructed across active faults. If an active fault is identified within a proposed project site, a setback is required. As not all faults have been identified, additional Earthquake Fault Zones may be added in the future.

Comparison of the Site location to the CGS maps indicates it is not located within an identified Earthquake Fault Zone. No known active faults traverse or trend towards the Site. The potential for damage to structures on the Site resulting from fault surface rupture appears low.

4.2 Ground Shaking

The Site is located in a seismically-active area, and the proposed structures on the Site likely will be subject to strong ground shaking. Redwood City is located in eastern portion of San Mateo County. The City of Redwood City General Plan (General Plan) documents the most prominent active fault as the San Andreas Fault System, approximately 6 miles southwest of the Site. The General Plan depicts an inferred potentially active fault trace traversing ½ mile north of the Site; this fault is not an active, Alquist-Priolo Special Study Zone (City of Redwood City, 2010). The probability of a magnitude 6.7 or greater earthquake in San Mateo County prior to the year 2032 has been estimated by the United States Geological Survey as 62 percent (City of Menlo Park, 2013). Geotechnical and structural engineering measures related to seismic shaking should be evaluated through appropriate design level studies.

4.3 Liquefaction

The sudden loss of shear strength in soil due to a rapid increase in pore water pressure, such as that caused by a seismic event, is known as liquefaction. When liquefaction occurs, soil

behaves more as a liquid than a solid, threatening the stability of structures constructed on the surface. Soil conditions resulting in a high likelihood of liquefaction are low-density granular soils (sands, silts, gravels and combinations of the three) with a high groundwater table.

Based on review of CGS maps, the Site is located within a seismic hazard zone for liquefaction. Review of the General Plan indicates areas of Redwood City with the highest risk of liquefaction are those in the lowland and tidal flat areas, and the Site is located within a lowland area. The General Plan depicts the Site within an area designated as having a Medium susceptibility to liquefaction. Additionally, areas where the water table is shallower than 30 feet are considered most prone to liquefaction. The anticipated groundwater depth in the Site vicinity is approximately 3 to 12 feet beneath the ground surface. Geotechnical and structural engineering measures related to liquefaction should be evaluated through appropriate design level studies.

4.4 Seismically-Induced Settlement

Settlement of unsaturated granular soils through densification and particle rearrangement during a seismic event is known as seismically-induced settlement. Differing from liquefaction in that no buildup of excess pore water pressure occurs, similar impacts to structures may result from seismically-induced settlement.

Based on geologic and hydrogeologic characteristics in the area, there is a potential for settlement to occur within the Site area. Seismically-induced settlement should be evaluated through geotechnical investigation and analysis.

4.5 Expansive Soils

Surficial soils at the Site reportedly consist of Urban Land (EDR, 2017), which are clayey soils. These soils can be expected to have a moderate shrink-swell potential. Based on soil type, the potential for expansive soils to be present appears moderate. The presence or absence of expansive soils should be evaluated through geotechnical investigation and analysis.

4.6 Subsidence

Areas underlain by aquifer systems at least partially comprised of fine-grained sediments that have been subject to extensive groundwater pumping may be subject to land subsidence. As the support of an aquifer system is comprised of the granular structure and fluid pressure of the groundwater filling the intragranular pore spaces, significant ground water withdrawal leads to lower fluid pressure and a resulting increase in weight of the overlying soil on the granular structure. Excessive pumping and associated pressure on the soil structure may result in compaction of the aquifer, known as land subsidence.

Groundwater is not a primary source of potable water for the City of Redwood City. The potential for subsidence to occur at the Site attributable to excessive pumping is therefore low.

4.7 Landslides and Slope Stability

Topography at the Site is relatively flat and the Site is not situated in immediate proximity to any slopes. Based on the topography, the potential for landslides or the failure of natural slopes to impact Site development is low.

4.8 Flood Hazard

Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, Community Panel Number 06081C0302E, dated October 16, 2012, depicted the Site within Flood Zone X (shaded). FEMA defines Flood Zone X (shaded) as areas of 0.2% annual chance flood, areas of 1% annual chance flood with average depths of less than 1 foot, or with drainage areas less than 1 square mile, and areas protected by levees from the 1% annual chance flood. The General Plan depicts the Site within a 500-year flood zone.

4.9 Dam Inundation

Catastrophic failure of dams resulting in inundation of down-stream areas is a rare occurrence, and most likely to occur following a significant seismic event. The State Office of Emergency Services (OES), utilizing information from the US Army Corps of Engineers, US Bureau of Reclamation, and Department of Water Resources, is the agency responsible for providing local governments with critical hazard response planning information, including that related to flooding from dam inundation. An additional dam failure inundation map was available in the General Plan.

Based on the General Plan and OES dam failure inundation maps, Bear Gulch, Lagunita, Lower Crystal Springs, Felt Lake, Laurel Creek Poly, Emerald Lake, and Searsville reservoirs were determined to be located within a moderate proximity to the Site. Based on the OES dam inundation maps for the reservoirs, as well as the Dam Inundation Flood Hazards map included in the General Plan, the Site is depicted outside the potential inundation areas.

4.10 Tsunami/Seiche

A long-period sea wave generated by an earthquake or submarine landslide is known as a tsunami. A similar wave occurring in a large body or water such as a lake or reservoir is known as a seiche. Based on tsunami mapping included in the City of Menlo Park General Plan, the Site is not located within a tsunami Inundation area. Based on the distance of the Site from the nearest lake or reservoir, a seiche also would not impact the Site.

4.11 Volcanic Activity

Volcanic activity historically has occurred in California, as recently as the 1910s in northeastern California. Falling ash typically is the most significant hazard from a volcanic eruption. There are no major volcanic areas nearby with recognized potential to impact the Site.

4.12 Naturally-Occurring Asbestos

Asbestos, a naturally-occurring, fibrous silicate mineral, is a known carcinogen. Naturally-occurring asbestos (NOA) most frequently occurs in and immediately adjacent to areas of ultramafic (igneous and metamorphic rocks with high iron and magnesium concentrations) rock outcrops. The nearest outcrop of Ultramafic rock that could contain NOA is documented approximately 4 miles to the west-southwest (Department of Conservation, 2000). This is within the 10-mile distance established by the DTSC Schools Program guidelines which triggers sampling for NOA fibers.

4.13 Radon

Radon, a colorless, odorless and tasteless gas, is a naturally-occurring byproduct of the decay of uranium. As a radioactive gas, studies have demonstrated a correlation between elevated radon concentrations and lung cancer. The correlation is most pronounced for humans inhabiting residential buildings with elevated radon concentrations over a period of years. The US Environmental Protection Agency (EPA) has designated each county in the United States one of three zones based on the potential for radon accumulation. The EPA action limit for radon is 4.0 pCi/L.

Based on information provided in the regulatory agency database report, one Federal and 19 State radon screening tests have been performed within the Site zip code. The Federal radon screening tests of the 1st floor living area reported average radon activity at 0.300 pCi/l. No Federal radon screening tests of the basement level were reported. Two of the 19 State tests (10%) reported radon exceeding the 4 pCi/l action level. San Mateo County is reported in Federal EPA Radon Zone 2, which corresponds to an indoor average radon concentration greater than 2 pCi/L but less than 4 pCi/L. Based on the available radon test data, radon does not appear to be a significant concern.

5.0 ENVIRONMENTAL SAFETY HAZARDS EVALUATION

5.1 Potential Presence of Toxic and Hazardous Substances

5.1.1 Agricultural Use

Historical agricultural cultivation of the Site was not documented in the available historical sources.

5.1.2 Aged Structures

Several of the structures on the Site have been present since the 1940s to 1960s. Additionally, one small structure was documented in the vicinity of the existing Taft Child Development Center during the 1960s. Based on the dates of construction, the paint may contain lead. Flaking lead-based paint (LBP) may have impacted exposed soil in the vicinity of the structures with lead. Additionally, application of pesticides and/or herbicides may have occurred around the building perimeters. Evaluation of near-surface soil around the structure perimeters for the presence of pesticides and related metals, as well as lead, exceeding DTSC school standards is recommended.

5.1.3 Oil and Gas Wells

Visual observation of the Site and vicinity was conducted, as was review of Department of Oil, Gas and Geothermal Resources (DOGGR) maps available on the DOGGR website. No gas wells or dry holes were reported on or within 1,500 feet of the Site.

5.1.4 Other Toxic and Hazardous Substances

5.1.4.1 On-Site

Significant quantities of hazardous materials are not stored or used at the Site. Potential hazardous materials concerns were identified in the Phase I Environmental Site Assessment (ESA) related to lead-based paint residues, pesticide and herbicide spraying, naturally-occurring asbestos, and an electrical transformer (MCI, 2017).

The Environmental Data Resources Inc. (EDR) Radius Map Report (Appendix A) includes a search of regulatory agency databases as specified in American Society of Testing and Materials (ASTM) E 1527-13. The Site is listed on the Haznet, RCRA Small Quantity Generator (SQG), FINDS, and ECHO databases reviewed by EDR in preparation of the Radius Map Report. Listing on the Haznet and SQG databases (based on information provided by RCSD) was for disposal of asbestos-containing waste and organic solids related to building renovation activities. Listings

on the FINDS and ECHO databases were related to the SQG and Haznet listings. The ECHO and SQG database listings indicated no violations. The listings are not indicative of an environmental concern on the Site. Generation/disposal of non-renovation hazardous wastes was not documented at the Site.

Hazardous materials and/or underground storage tank (UST) files related to the Site's address were requested from the San Mateo County Environmental Health Department (SMCEHD). According to the SMCEHD, they have no hazardous materials or UST files for the Site. The Site is not listed on the State Water Resources Control Board (SWRCB) Geotracker database or on the California Department of Toxic Substances Control (DTSC) Envirostor database, both reviewed on-line.

5.1.4.2 Off-Site

Two gas stations were identified within ¼ mile of the Site through a drive-by reconnaissance: Exxon (844 5th Avenue; 0.22 mile west-northwest) and Mobil (795 5th Avenue; 0.31 mile west-southwest). The reconnaissance also revealed the presence of an AT&T data center within ¼ mile (3175 Spring Street; 0.29 mile west). The above facilities, as well as other regulatory agency-listed facilities within ¼ mile of the Site, were researched through the EDR radius map report, SWRCB Geotracker and DTSC Envirostor databases. Based on the available information, the observed facilities are not of environmental concern to the Site.

The only hazardous materials release documented up-gradient from the Site in the EDR report, Edison Technology Park at 3477 through 3522 Edison Way, was reported approximately 0.26 mile up- to cross-gradient. Edison Technology Park was included on several databases for impact to soil, groundwater, and soil vapor with a suite or contaminants. Analysis of groundwater samples collected from the perimeter of the Edison Technology Park site nearest the subject property did not document the presence of contaminants at concentrations anticipated to impact the subject property. Based on the available information, this facility also is unlikely to be of significant concern.

Based on the information available on the EDR radius map report, SWRCB Geotracker and DTSC Envirostor databases, no vicinity properties within ¼ mile radius appear likely to be of significant impact to the Site through storage of significant quantities of hazardous materials or documented releases to soil and/or groundwater.

5.2 Solid Waste or Hazardous Waste Transportation, Storage, or Disposal Facilities

A review of the Solid Waste Facilities/Landfill Facilities (SWF/LF) and Federal Resource Conservation and Recovery Act (RCRA) Transportation, Storage, and Disposal Facilities (TSDF)

databases included in the EDR report (Appendix A) did not reveal the presence of solid waste or hazardous waste transportation, storage, or disposal facilities within ½ mile of the Site.

5.3 High-Pressure Natural Gas or Fuel Transmission Pipelines

Mr. Eric Alvarado of Pacific Gas and Electric Company (PG&E), contacted via email on June 19, 2017, stated there is one natural gas local transmission pipeline with an operating pressure exceeding 80 psig within 1,500 feet of the Site. PG&E pipeline 101, a 24-inch diameter steel pipeline installed in 1985, reportedly has a maximum allowable and normal operating pressure of 365 psig. Pipeline 101 was documented in the right-of-way along the southern side of Interstate 101, approximately 1,500 feet north of the Site. Based on location of this pipeline within a 1,500-foot radius of the Site, a pipeline risk analysis is required by the CDE.

The National Pipeline Mapping Service (NPMS) Public Map Viewer application of the Department of Transportation (DOT) did not depict any natural gas transmission or hazardous liquid pipelines within ¼ mile of the Site.

5.4 High-Volume Water and Wastewater Pipelines

The City of Redwood City Department of Public Works, Water Department (RCDPW) is the water purveyor for the Site, with potable water sourced through San Francisco Public Utilities Commission (SFPUC) Hetch-Hetchy surface water sources. Mr. Jeff Chou with the RCDPW emailed a link to the RCDPW map depicting the location of water lines within 1,500 feet of the Site. Based on review of the pipeline map on June 26, 2017, RCDPW operates several 12-inch diameter water mains within 1,500 feet of the Site. These locations include within the northern side of the right-of-way for Bay Road (16-inch diameter), adjoining south of the Site (Figure 2), within the western side of the right-of-way of 12th Avenue south of Bay Road (16-inch diameter), approximately 430 feet southeast of the Site, within the northern side of the right-of-way for Spring Street east of Bay Road (12-inch diameter), approximately 825 feet southeast, and within a right-of-way extending south from between the 11th and 12th Avenue terminations across the railroad tracks to the Hetch-Hetchy easement (16-inch diameter; see below), approximately 800 feet south-southeast. The Bay Road pipeline was documented to be of cast iron and ductile iron construction and installed in 1967, 12th Avenue pipeline was of ductile iron construction and installed in 1967, the Spring Street pipeline was of PVC construction and installed in 1992, and the 11th/12th Avenues pipeline was of ductile iron construction and installed in 1967. Based on location of these 12-inch or greater diameter pipelines within a 1,500-foot radius of the Site, a pipeline risk analysis is required by the CDE.

Based on information available on the Redwood City Geographic Information System (GIS) on-line database and Google Earth aerial photographs, the SFPUC Hetch-Hetchy water pipeline

easement is located approximately 1,400 feet south of the Site. Based on information provided by Mr. Donald Dias of RCSD and Underground Service Alert markings along the easement, the Hetch-Hetchy easement is 60 feet wide and includes three 5-foot diameter water pipelines. Based on location of these pipelines within a 1,500-foot radius of the Site, a pipeline risk analysis is required by the CDE.

The RCDPW also provides sewer service for Menlo Park. According to Mr. Jeff Chou with the RCDPW, none of the RCDPW sewer pipelines are pressurized.

5.5 Electromagnetic Fields/Electrical Power Lines

The CDE, in consultation with the California Department of Health Services (DHS), has established required separation distances for proposed school facilities in proximity to easements for high-voltage power transmission lines. The required distances between the edge of the transmission line easements and any portion of a school property line are: 100 feet for a 50 to 133 kV line, 150 feet for a 220 to 230 kV line, and 350 feet for a 500 to 550 kV line.

Overhead power lines were observed adjoining the northern side of Bay Road, the western side of 8th Avenue, the northern side of Page Street, the eastern side of 10th Avenue, and the northern side of Michael Drive, extending west along the northern Site boundary at the time of the Site reconnaissance. Based on information provided by Mr. Mike Allen with Pacific Gas and Electric Company (PG&E), contacted on June 26, 2017, all power lines within 350 feet of the Site, including those observed, are 4 kV distribution lines. There are no transmission lines within 1 mile of the Site. No setback is required for the 4 kV power lines.

5.6 Proximity to Facilities Generating Hazardous Air Emissions

The Site is not included on the Emissions Inventory Database of the Bay Area Air Quality Management District (BAAQMD), as identified through review of the regulatory agency database report. No documentation of air emissions from the Site was found through other available sources.

The California Air Resources Board (ARB) on-line Facility Search Engine database was utilized to identify facilities within an approximately ¼-mile radius of the Site having reported criteria pollutant emissions. Based on the reported information, no facilities are listed within a ¼-mile radius of the Site.

The BAAQMD was contacted on June 19, 2017, to determine if any air emission permits were on file for properties within an approximate ¼-mile radius of the Site. The BAAQMD stated that 30 days was required to process the request, a period time in excess of the available time for this study.

5.7 Proximity to Railroads

Railroad tracks, two main line tracks within a single-easement, were observed/documented approximately 995 feet south-southeast of the southern boundary of the Site. Based on the location of the railroad tracks within 1,500 feet of the Site, a railroad safety study is required by the CDE.

5.8 Proximity to Airports

Review of the Google Earth 2017 aerial photograph of the Site vicinity and other sources did not identify any airports within 2 nautical miles of the Site.

5.9 Water/Fuel Storage Tanks

Large fuel or water aboveground storage tanks (ASTs) were not observed on the Site at the time of the reconnaissance.

No ASTs, water or fuel, were observed within a 1,500-foot radius of the Site, but may be present although not readily observed from public right-of-ways or on the Google Earth 2017 photograph or 1997 Palo Alto, California 7.5-minute topographic map.

5.10 Traffic Corridor

Review of the Google Earth 2017 aerial photograph map of the Site vicinity and the 1997 Palo Alto, California 7.5-minute topographic map, along with a reconnaissance of the Site vicinity, identified no busy traffic corridors within 500 feet of the Site.

6.0 FINDINGS AND RECOMMENDATIONS

Based on the results of the geologic and environmental safety hazards evaluation conducted in general accordance with California Education Code 17212.5 for geologic studies and California Department of Education (CDE)/California Code of Regulations (CCR), Title 5, Sections 14010, et. seq. for environmental studies, the following summary of findings and recommendations is presented.

6.1 Geologic Hazards

- The Site is not located within a mapped Earthquake Fault Hazard Zone, and therefore the potential for damage to structures on the Site from fault surface rupture is low. The Site is not currently located within an Alquist-Priolo Earthquake Fault Zone and no known active faults traverse the Site.

- The Site is located in a seismically active area, and structures on the Site are likely to be subject to moderate ground shaking. Geotechnical and structural engineering measures related to seismic shaking should be evaluated through appropriate design level studies, if any structures are planned.

- The Site is located within a mapped Seismic Hazard Zone for Liquefaction. Geotechnical and structural engineering measures related to liquefaction should be evaluated through appropriate design level studies.

- Based on geologic and hydrogeologic characteristics in the area, the Site area may be susceptible to seismically-induced settlement. The potential for such Site-specific settlement should be evaluated through geotechnical investigation and analysis. The potential for subsidence to occur at the Site is low.

- Based on soil type designated for the Site, there is a moderate potential for expansive soils to be present. The presence or absence of expansive soils should be evaluated through geotechnical investigation and analysis.

- Topography at the Site is relatively flat and the Site is not situated close to any slopes. Based on the topography, the potential for landslides or the failure of natural slopes to impact Site development is low.

- Based on dam inundation maps available in the General Plan and through the OES, the Site is not depicted within the delineated flooded areas for the vicinity reservoirs/dams.

- Based on tsunami mapping in the General Plan and the distance of the Site from any large lakes or reservoirs, the potential for a tsunami or seiche to impact the Site appears low.

- The Site is located within Flood Zone X (shaded), areas of 0.2% annual chance flood, areas of 1% annual chance flood with average depths of less than 1 foot, or with drainage areas less than 1 square mile, and areas protected by levees from the 1% annual chance flood.

- There are no major volcanic areas nearby with recognized potential to impact the Site.

- According to the California Department of Conservation General Location Guide for Ultramafic Rocks in California (CDC, 2000), ultramafic outcrops are located 4 miles west-southwest of the Site, within the DTSC guidelines which trigger NOA sampling. Based on this information, soil sampling for NOA fibers should be conducted.

- Ten percent of the State radon testing results indicated radon concentrations exceeding 4 pCi/L. San Mateo County is reported in Federal EPA Radon Zone 2, with average indoor radon levels between 2 and 4 pCi/l. Based on the available test data, the likelihood of significant radon accumulation appears low.

6.2 Environmental and Facilities Safety Hazards

- There was no evidence of historical agricultural cultivation of the Site, but there are aged structures currently and previously located on the Site. Residual agricultural chemicals and lead related to potential use of LBP on the existing and historical structures, may be present in Site soil at elevated concentrations. *Soil quality investigation should be performed to evaluate the presence of residual agricultural chemicals and related metals, as well as lead, in Site soils and to compare concentrations, if present, to current DTSC school standards.*

- No gas production wells or plugged dry hole are located on or within 1,500 feet of the Site.

- No significant hazardous materials/waste facilities and/or solid waste-related facilities appear located within ¼ mile of the Site.

- PG&E reported one natural gas pipeline with an operating pressure exceeding 60 psig approximately 1,500 feet from the Site. No hazardous materials or natural gas pipelines operated by other companies are reported within 1,500 feet of the Site. Based on location of the pipeline within a 1,500-foot radius of the Site, *a pipeline risk analysis is required by the CDE.*

- Several 12-inch and 16-inch diameter RCDPW water lines and three 5-foot diameter Hetch-Hetchy water pipelines are located within 1,500 feet of the Site. Based on location of these water pipelines within a 1,500-foot radius of the Site, a pipeline risk analysis is required by the CDE. No RCDPW pressurized sewer lines are located within 1,500 feet of the Site.

- Power lines in the immediate vicinity of the Site are reported to be 4 kV distribution lines by PG&E. Based on the voltage, no setback is required.

- There are no permitted air emissions facilities located within ¼ mile of the Site.

- Railroad tracks are located approximately 995 feet from the Site. Based on location of the railroad tracks within 1,500 feet of the Site, *a railroad safety study is required by the CDE.*

- No airports are located within the CDE guideline of 2 nautical miles.
- Fuel or water ASTs are not present on or within 1,500 feet of the Site.
- No major traffic corridors are located within 500 feet of the Site.

6.3 Required Additional Studies

Based on the current Site and vicinity conditions, and the applicable standards followed in conducting this study, the following geological studies, soil quality studies, safety studies, and/or risk assessments appear required.

- To address the Site-specific potential for geologic hazards attributable to ground shaking, liquefaction, seismically- induced settlement, and expansive soils, subsurface geologic conditions should be evaluated through performance of a Site-specific geotechnical investigation.
- To address the potential for elevated concentrations of pesticides and/or herbicides and related metals and lead to remain present in Site soils attributable to aged structures, and for NOA to be present, *soil sampling and laboratory testing is recommended.*
- To address the location of the 365 psig natural gas transmission pipeline, the Hetch-Hetchy pipelines and several 12-inch diameter water pipelines within 1,500 feet of the Site, *pipeline risk analyses in accordance with the School Site Selection and Approval Guide requirements are required.*
- To address the location of railroad tracks within 1,500 feet of the Site, *a railroad safety study in accordance with the School Site Selection and Approval Guide is be required.*

7.0 REFERENCES

California Air Resources Board. *Facility Search Engine*. https://www.arb.ca.gov/app/emsinv/facinfo/facinfo.php?dd=

California Department of Conservation, August 2000. *A General Location Guide for Ultramafic Rocks in California – Areas More Likely to Contain Naturally Occurring Asbestos*.

California Department of Conservation, Department of Geological Survey, 2010. *2010 Fault Activity Map of California*. http://www.quake.ca.gov/gmaps/FAM/faultactivitymap.html.

California Department of Education website. http://www.cde.ca.gov/ls/fa/sf/schoolsiteguide.asp?print=yes

California Department of Public Health, Department of Health Services, May 4, 2010. *California Indoor Radon Levels Sorted by Zip Code*. http://www.cdph.ca.gov/HealthInfo/environhealth/Documents/Radon/CaliforniaRadonDatabase.pdf

California Department of Water Resources website. http://www.water.ca.gov/groundwater/bulletin118/history.cfm

California Environmental Protection Agency, Air Resources Board Emissions Inventory website: http://www.arb.ca.gov/app/emsinv/facinfo/facinfo.php.

California Geological Survey, Department of Conservation website. http://www.consrv.ca.gov/CGS/information/publications/cgs_notes/note_36/note_36.pdf.

City of Menlo Park, May 21, 2013. *City of Menlo Park General Plan, Open Space/Conservation, Noise and Safety Elements*.

City of Redwood City, October 11, 2010. *Redwood City General Plan*. http://www.redwoodcity.org/home/showdocument?id=5109.

DTSC Envirostor website. http://www.envirostor.dtsc.ca.gov/public.

Environmental Data Resources Inc. *The EDR Aerial Photo Decade Package, Taft Community School, 903 Tenth Avenue, Redwood City, CA 94063, Inquiry Number 4955887.6*. June 5, 2017.

Environmental Data Resources Inc. *The EDR Radius Map Report with GeoCheck, Taft Community School, 903 Tenth Avenue, Redwood City, CA 94063, Inquiry Number 4955887.2s*. June 5, 2017.

Federal Emergency Management Agency, Flood Insurance Rate Map – Community Panel Number: 06081C0302E, effective date October 16, 2012.

Google Earth, 2016. Street View and Aerial Photographs.

Jenkins, Charles W., 1994. *Fault Activity Map of California and Adjacent Areas.* California Division of Mines and Geology.

McCloskey Consultants, Inc. *Phase I Environmental Site Assessment, Taft Community School, 903 10th Avenue, Redwood City, San Mateo County, CA 94063*. June 30, 2017.

National Pipeline Mapping System, Public Map Viewer website: https://www.npms.phmsa.dot.gov/PublicViewer/.

Pacific Gas and Electric Company, Mr. Eric Alvarado, exas@pge.com.

Pacific Gas and Electric Company, Mr. Michael Allen, mjam@pge.com.

Redwood City Community GIS. http://webgis.redwoodcity.org/community/.

Redwood City Department of Public Works, Mr. Jeff Chou, 650) 780-7362, jchou@redwoodcity.org.

San Mateo County Environmental Health Department, https://ehesubmit.smchealth.org/servlet/guest?service=0&formId=88&saveAction=2&enterprise=9.

State of California Division of Oil, Gas, and Geothermal Resources website. http://www.conservation.ca.gov/dog/Pages/WellFinder.aspx.

SWRCB Geotracker website. http://www.geotracker.swrcb.ca.gov.

United States Department of Geological Survey, 1989. *Areas Subject to Potential Hazards from Future Eruptions in California; modified from: Miller, 1989, USGS Bulletin 1847.* http://vulcan.wr.usgs.gov/Volcanoes/California/Coso/framework.html.

8.0 LIMITATIONS

The conclusions and recommendations presented in this CDE/CCR Title 5 Geologic and Environmental Safety Hazards Evaluation were based on reasonably observable Site conditions and publicly accessible information, including documents provided and/or prepared by others.

MCI is not responsible for the accuracy of the data provided by others. Publicly accessible information cannot be relied upon to definitively confirm or deny the existence of recognized environmental conditions at the Site. No warranty, expressed or implied, has been made, except that the services have been performed in general accordance with California Education Code 17212.5 for geologic studies and California Department of Education (CDE)/California Code of Regulations (CCR), Title 5, Sections 14010, et. seq. for environmental studies.

FIGURES

Vicinity Map

Taft Community School
903 10th Avenue
Redwood City, California

FIGURE 1

McCloskey Consultants

Site Plan

Taft Community School
903 10th Avenue
Redwood City, California

FIGURE 2

McCloskey Consultants

APPENDIX A

EDR REGULATORY AGENCY DATABASE REPORT

Taft Community School
903 Tenth Avenue
Redwood City, CA 94063

Inquiry Number: 4955887.2s
June 05, 2017

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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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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

903 TENTH AVENUE
REDWOOD CITY, CA 94063

COORDINATES

Latitude (North):	37.4810080 - 37° 28' 51.62''
Longitude (West):	122.1944250 - 122° 11' 39.93''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	571225.2
UTM Y (Meters):	4148334.5
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640620 PALO ALTO, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140608
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
903 TENTH AVENUE
REDWOOD CITY, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	REDWOOD CITY USD / T	903 10TH AVE	CA HAZNET		TP
A2	TAFT SCHOOL	903 10TH AVE	CA HAZNET		TP
A3	REDWOOD CITY USD TAF	TENTH AVE AT BAY RD	FINDS, ECHO		TP
A4	RCSD - TAFT ELEMENTA	903 10TH AVE	CA HAZNET		TP
A5	REDWOOD CITY USD TAF	TENTH AVE AT BAY RD	RCRA-SQG		TP
6	FARM	27401 HWY 9	CA SWEEPS UST, CA San Mateo Co. BI	Higher	50, 0.009, SW
7	EAST WEST AUTO WORKS	14 YARNALL PL	EDR Hist Auto	Lower	610, 0.116, NE
B8	5TH AVE 76	844 5TH	CA San Mateo Co. BI	Higher	773, 0.146, West
B9	UNION OIL SS# 3810	844 5TH AVE	CA HIST UST	Higher	773, 0.146, West
B10	BAY ROAD UNOCAL 76 #	844 5TH	CA San Mateo Co. BI	Higher	773, 0.146, West
B11	CONOCO PHILLIPS #253	844 FIFTH AVE	CA HIST UST, CA HAZNET	Higher	773, 0.146, West
B12	UNOCAL #3810	844 5TH AVE	CA UST	Higher	835, 0.158, West
B13	UNOCAL #3810	844 5TH	CA LUST, CA HIST UST	Higher	835, 0.158, West
B14	UNOCAL STATION #3810	844 5TH AVENUE	CA LUST, CA HIST CORTESE	Higher	835, 0.158, West
B15	7-ELEVEN INC. STORE	895 5TH	CA San Mateo Co. BI	Higher	878, 0.166, West
C16	PAW PRINTS	3166 BAY	CA San Mateo Co. BI	Higher	1058, 0.200, West
D17	JOES FIAT SERVICE	819 5TH	CA San Mateo Co. BI	Higher	1129, 0.214, West
D18	FIFTH AVENUE SERVICE	795 005TH AVE	CA FID UST	Higher	1149, 0.218, WSW
D19	AT&T REDWOOD CITY	3175 SPRING ST	CA SWEEPS UST, CA FID UST	Higher	1201, 0.227, WSW
D20	AT&T CORP. - P3066	3175 SPRING	CA LUST, CA San Mateo Co. BI	Higher	1201, 0.227, WSW
D21	AT&T COMUNICATIONS	3175 SPRING	CA AST	Higher	1201, 0.227, WSW
D22	AT&T CORP - P3066	3175 SPRING ST	CA AST	Higher	1201, 0.227, WSW
D23	AT&T CORP. - P3066	3175 SPRING ST	CA UST	Higher	1201, 0.227, WSW
D24	REDWOOD CITY 4A	3175 SPRING ST	CA HIST UST	Higher	1201, 0.227, WSW
D25	AT&T	3175 SPRING STREET	CA LUST, CA HIST CORTESE	Higher	1201, 0.227, WSW
D26	PACIFIC BELL	3175 SPRING STREET	RCRA-SQG, FINDS, ECHO	Higher	1201, 0.227, WSW
D27	5TH AVE SERVICE	795 5TH	CA LUST, CA SWEEPS UST, CA HIST CORTESE	Higher	1233, 0.234, WSW
D28	VALERO	795 5TH	CA San Mateo Co. BI	Higher	1233, 0.234, WSW
D29	K & A PETROLEUM INC/	795 5TH AVE	CA UST	Higher	1233, 0.234, WSW
D30	FIFTH AVENUE SERVICE	795-FIFTH AVE	CA HIST UST	Higher	1233, 0.234, WSW
D31	5TH AVE SERVICE	795 5TH	CA LUST, CA HIST UST	Higher	1233, 0.234, WSW
E32	TRACE ANALYTICAL INC	3517 EDISON	CA San Mateo Co. BI	Higher	1233, 0.234, SSW
D33	PORTABLE WATER SUPPL	3184 SPRING	CA San Mateo Co. BI	Higher	1234, 0.234, WSW
D34	WELTER STENCIL & ENG	793 5TH	CA San Mateo Co. BI	Higher	1237, 0.234, WSW
E35	DIETER'S GERMAN CAR	3511 EDISON WAY	CA San Mateo Co. BI, CA HAZNET	Higher	1253, 0.237, SSW
E36	JOHN ZENDER CONSULTI	3507 EDISON	CA San Mateo Co. BI	Higher	1274, 0.241, SSW
D37	REMCO ENTERPRISES IN	3160 SPRING	CA San Mateo Co. BI	Higher	1298, 0.246, WSW
C38	ICE OASIS	3140 BAY	CA San Mateo Co. BI	Higher	1300, 0.246, West
39	EDISON TECHNOLOGY PA	3477-3522 EDISON WAY	CA LUST, CA SLIC	Higher	1380, 0.261, SSW

MAPPED SITES SUMMARY

Target Property Address:
903 TENTH AVENUE
REDWOOD CITY, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	GILLIS & LANE INC.	830 2ND	CA LUST, CA HIST CORTESE	Higher	1747, 0.331, West
F41	PIC	3004 SPRING	CA LUST, CA HIST CORTESE	Higher	1879, 0.356, West
F42	PIC	3004 SPRING	CA LUST, CA AST, CA Notify 65	Higher	1879, 0.356, West
G43	KOBLICK SUPPLY	2950 BAY	CA LUST, CA SWEEPS UST, CA HIST CORTESE	Lower	2000, 0.379, WNW
G44	MR. HAUL	867 SECOND AVENUE	CA SWF/LF	Higher	2025, 0.384, West
G45	PACIFIC BELL	867 2ND AVENUE	RCRA-SQG, CA LUST, CA HIST UST, FINDS, ECHO, CA...	Higher	2025, 0.384, West
H46	MENLO PARK FIRE DIST	4101 FAIR OAKS	CA San Mateo Co. BI, CA HIST CORTESE	Higher	2050, 0.388, SSE
H47	MENLO PARK FIRE DIST	4101 FAIR OAKS	CA LUST	Higher	2052, 0.389, SSE
48	FORMER GAS STATION	955 MARSH ROAD	CA Notify 65	Higher	2068, 0.392, ESE
49	AMPEX DATA SYSTEMS C	1228 DOUGLAS AVE	RCRA-SQG, CA LUST, CA SLIC, FINDS, ECHO, CA EMI,...	Lower	2099, 0.398, NW
G50	MEWES PROPERTY	2906 BAY	CA LUST	Lower	2203, 0.417, WNW
I51	SEQUOIA MILL	2575 EAST BAYSHORE R	CA LUST, CA HIST CORTESE	Lower	2224, 0.421, NNW
I52	SEQUOIA MILL	2575 E BAYSHORE RD	CA LUST, CA HIST UST	Lower	2224, 0.421, NNW
J53	DELUCA FOODS	832 BARRON	CA LUST, CA HIST CORTESE	Higher	2283, 0.432, West
J54	R A DE LUCA	832 BARRON AVE	CA LUST, CA SWEEPS UST	Higher	2283, 0.432, West
K55	DELUCCHI PROPERTY	995 MARSH	CA LUST	Higher	2321, 0.440, ESE
K56	DELUCCHI PROPERTY	995 MARSH ROAD	CA LUST, CA HIST CORTESE	Higher	2321, 0.440, ESE
57	MIDLAND PACIFIC CORP	3536 HAVEN	CA LUST, CA HIST CORTESE	Lower	2359, 0.447, NE
58	SEARS MERCHANDISE GR	1325 DOUGLAS	CA LUST, CA HIST CORTESE	Lower	2371, 0.449, NW
59	REDWOOD MOTOR COURT	3706 ROLISON ROAD	CA LUST	Lower	2467, 0.467, ENE
K60	CHEVRON	3805 BOHANNON	CA LUST, CA SWEEPS UST, CA San Mateo Co. BI, CA...	Higher	2476, 0.469, ESE
K61	CHEVRON 9-0754	3805 BOHANNON	CA LUST	Higher	2495, 0.473, ESE
K62	BOHANNON PARK	990 MARSH	CA LUST	Higher	2501, 0.474, ESE
K63	DELTA AUTO REPAIR	990 MARSH	CA LUST, CA San Mateo Co. BI, CA HIST CORTESE	Higher	2501, 0.474, ESE
L64	GENERAL CIRCUITS INC	3549 J HAVEN AVENUE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-SQG, CA...	Lower	2543, 0.482, NE
M65	CALTRANS DISTRICT 4	2501 E BAYSHORE BLVD	RCRA-SQG, CA LUST, FINDS, ECHO	Lower	2575, 0.488, NW
M66	CALTRANS MAINTENANCE	2501 EAST BAYSHORE R	CA LUST, CA SLIC, CA HIST CORTESE	Lower	2575, 0.488, NW
M67	CALTRANS-REDWOOD CIT	2501 BAYSHORE	CA LUST, CA San Mateo Co. BI	Lower	2575, 0.488, NW
68	MARSH ROAD DELI	763 MARSH	CA LUST, CA San Mateo Co. BI, CA HIST CORTESE	Higher	2630, 0.498, SE
L69	GENERAL CIRCUITS INC	3585 HAVEN AVENUE	CA ENVIROSTOR, CA HIST UST, CA San Mateo Co. BI,...	Lower	2763, 0.523, NE
L70	GENERAL CIRCUITS INC	3585 HAVEN AVENUE	SEMS-ARCHIVE, CORRACTS, RCRA-SQG, CA HAZNET	Lower	2763, 0.523, NE
N71	KLIKLOK CO. (BUILDIN	2661 SPRING	CA ENVIROSTOR, CA HIST CORTESE	Higher	3610, 0.684, West
N72	UNKNOWN	860 HURLINGAMES	CA Notify 65	Higher	3618, 0.685, WNW
73	PETERSEN PRECISION E	611 BROADWAY STREET	CA ENVIROSTOR	Lower	3935, 0.745, WNW
74	SEIBERT, J., MACHINE	119 INDEPENDENCE DR.	CA ENVIROSTOR, CA San Mateo Co. BI	Lower	4584, 0.868, ENE
O75	COORS WEST	890 BROADWAY	CA LUST, CA Notify 65	Lower	4711, 0.892, WNW
O76	TYDEMAN MACHINE WORK	BROADWAY AND CHARTER	CA ENVIROSTOR	Lower	4895, 0.927, WNW
77	STAR TOOL & ENGINEER	860 CHARTER	CA ENVIROSTOR, CA SLIC, CA VCP, CA San Mateo Co....	Lower	4930, 0.934, WNW
78	UNKNOWN	197 FIFTH AVENUE	CA Notify 65	Higher	5030, 0.953, SW

MAPPED SITES SUMMARY

Target Property Address:
903 TENTH AVENUE
REDWOOD CITY, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
79	COORS WEST	2700 MIDDLEFIELD ROA	CA Notify 65	Higher	5233, 0.991, WSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
REDWOOD CITY USD / T 903 10TH AVE REDWOOD CITY, CA 94063	CA HAZNET GEPAID: CAC002367511	N/A
TAFT SCHOOL 903 10TH AVE REDWOOD CITY, CA 94063	CA HAZNET GEPAID: CAC002681022 GEPAID: CAC002737007	N/A
REDWOOD CITY USD TAF TENTH AVE AT BAY RD REDWOOD CITY, CA 94063	FINDS Registry ID:: 110008272001 ECHO	N/A
RCSD - TAFT ELEMENTA 903 10TH AVE REDWOOD CITY, CA 94063	CA HAZNET GEPAID: CAC002579346	N/A
REDWOOD CITY USD TAF TENTH AVE AT BAY RD REDWOOD CITY, CA 94063	RCRA-SQG EPA ID:: CAD981678097	CAD981678097

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

CA RESPONSE..... State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

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 SWRCY..... Recycler 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 HIST Cal-Sites	Historical Calsites Database
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
CA DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CA CHMIRS	California Hazardous Material Incident Report System
CA LDS	Land Disposal Sites Listing
CA MCS	Military Cleanup Sites Listing
CA SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees

INDIAN RESERV Indian Reservations
FUSRAP Formerly Utilized Sites Remedial Action Program
UMTRA Uranium Mill Tailings Sites
LEAD SMELTERS Lead Smelter Sites
US AIRS Aerometric Information Retrieval System Facility Subsystem
US MINES Mines Master Index File
ABANDONED MINES Abandoned Mines
UXO Unexploded Ordnance Sites
DOCKET HWC Hazardous Waste Compliance Docket Listing
FUELS PROGRAM EPA Fuels Program Registered Listing
CA BOND EXP. PLAN Bond Expenditure Plan
CA Cortese "Cortese" Hazardous Waste & Substances Sites List
CA CUPA Listings CUPA Resources List
CA DRYCLEANERS Cleaner Facilities
CA ENF Enforcement Action Listing
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 NPDES NPDES Permits Listing
CA PEST LIC Pesticide Regulation Licenses Listing
CA PROC Certified Processors Database
CA UIC UIC Listing
CA WASTEWATER PITS Oil Wastewater Pits Listing
CA WDS Waste Discharge System
CA WIP Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner EDR Exclusive Historic Dry Cleaners

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.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 02/07/2017 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***

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 12/12/2016 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***
GENERAL CIRCUITS INC	***3585 HAVEN AVENUE***	***NE 1/2 - 1 (0.523 mi.)***	***L70***	***122***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: 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.

A review of the RCRA-TSDF list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***

EXECUTIVE SUMMARY

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC BELL	***3175 SPRING STREET***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D26***	***31***

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 01/30/2017 has revealed that there are 7 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KLIKLOK CO. (BUILDIN Facility Id: 41340063 Status: Inactive - Needs Evaluation	***2661 SPRING***	***W 1/2 - 1 (0.684 mi.)***	***N71***	***125***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC Facility Id: 80001670 Status: Refer: EPA	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***
GENERAL CIRCUITS INC Facility Id: 80001497 Status: Inactive - Needs Evaluation	***3585 HAVEN AVENUE***	***NE 1/2 - 1 (0.523 mi.)***	***L69***	***120***
PETERSEN PRECISION E Facility Id: 60001134 Status: No Action Required	611 BROADWAY STREET	WNW 1/2 - 1 (0.745 mi.)	73	127
SEIBERT, J., MACHINE Facility Id: 41350016 Status: Refer: Other Agency	***119 INDEPENDENCE DR.***	***ENE 1/2 - 1 (0.868 mi.)***	***74***	***128***
TYDEMAN MACHINE WORK	BROADWAY AND CHARTER	WNW 1/2 - 1 (0.927 mi.)	O76	131

Facility Id: 41340062
Status: No Action Required

STAR TOOL & ENGINEER ***860 CHARTER*** ***WNW 1/2 - 1 (0.934 mi.)*** ***77*** ***132***
Facility Id: 60002245
Status: Active

State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the CA SWF/LF list, as provided by EDR, has revealed that there is 1 CA SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MR. HAUL	867 SECOND AVENUE	W 1/4 - 1/2 (0.384 mi.)	G44	66
Database: SWF/LF (SWIS), Date of Government Version: 02/13/2017 Facility ID: 41-AA-0181 Operational Status: Active Regulation Status: Notification				

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
UNOCAL #3810	***844 5TH***	***W 1/8 - 1/4 (0.158 mi.)***	***B13***	***17***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Status: Post remedial action monitoring				
UNOCAL STATION #3810	***844 5TH AVENUE***	***W 1/8 - 1/4 (0.158 mi.)***	***B14***	***19***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: 330075 Facility Status: 9- Case Closed Global Id: T0608100591 Global ID: T0608100591				
AT&T CORP. - P3066	***3175 SPRING***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D20***	***26***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Status: Case Closed date9: 9/5/2000				
AT&T	***3175 SPRING STREET***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D25***	***30***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017 Database: LUST, Date of Government Version: 03/13/2017				

Status: Completed - Case Closed
Facility Id: 330016
Facility Status: 9- Case Closed
Global Id: T0608100044
Global ID: T0608100044

5TH AVE SERVICE ***795 5TH*** ***WSW 1/8 - 1/4 (0.234 mi.)*** ***D27*** ***33***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Open - Eligible for Closure
Facility Id: 330039
Facility Status: 8- Verification Monitoring Underway
Global Id: T0608100216
Global ID: T0608100216

5TH AVE SERVICE ***795 5TH*** ***WSW 1/8 - 1/4 (0.234 mi.)*** ***D31*** ***54***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Post remedial action monitoring

EDISON TECHNOLOGY PA ***3477-3522 EDISON WAY*** ***SSW 1/4 - 1/2 (0.261 mi.)*** ***39*** ***58***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Facility Id: 449093
Facility Status: 3B- Preliminary Assessment Underway
Global ID: T10000006237

GILLIS & LANE INC. ***830 2ND*** ***W 1/4 - 1/2 (0.331 mi.)*** ***40*** ***59***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330010
Facility Status: 9- Case Closed
Global Id: T0608100234
Global ID: T0608100234
date9: 12/6/1999

PIC ***3004 SPRING*** ***W 1/4 - 1/2 (0.356 mi.)*** ***F41*** ***61***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 330032
Facility Status: 9- Case Closed
Global Id: T0608100398
Global ID: T0608100398

PIC ***3004 SPRING*** ***W 1/4 - 1/2 (0.356 mi.)*** ***F42*** ***63***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 5/31/1996

PACIFIC BELL ***867 2ND AVENUE*** ***W 1/4 - 1/2 (0.384 mi.)*** ***G45*** ***67***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330011
Facility Status: 9- Case Closed
Global Id: T0608100379

Global ID: T0608100379
date9: 3/22/2001

MENLO PARK FIRE DIST 4101 FAIR OAKS SSE 1/4 - 1/2 (0.389 mi.) H47 71
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330155
Facility Status: 9- Case Closed
Global Id: T0608101001
Global ID: T0608101001
date9: 6/12/1998

DELUCA FOODS ***832 BARRON*** ***W 1/4 - 1/2 (0.432 mi.)*** ***J53*** ***86***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 330088
Facility Status: 9- Case Closed
Global Id: T0608100183
Global ID: T0608100183

R A DE LUCA ***832 BARRON AVE*** ***W 1/4 - 1/2 (0.432 mi.)*** ***J54*** ***87***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 7/28/1999

DELUCCHI PROPERTY 995 MARSH ESE 1/4 - 1/2 (0.440 mi.) K55 88
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 4/8/2003

DELUCCHI PROPERTY ***995 MARSH ROAD*** ***ESE 1/4 - 1/2 (0.440 mi.)*** ***K56*** ***89***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 330050
Facility Status: 9- Case Closed
Global Id: T0608100186
Global ID: T0608100186

CHEVRON ***3805 BOHANNON*** ***ESE 1/4 - 1/2 (0.469 mi.)*** ***K60*** ***97***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 440052
Facility Status: 9- Case Closed
Global Id: T0608100997
Global ID: T0608100997

CHEVRON 9-0754 3805 BOHANNON ESE 1/4 - 1/2 (0.473 mi.) K61 102
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 6/15/2004

BOHANNON PARK 990 MARSH ESE 1/4 - 1/2 (0.474 mi.) K62 102
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed

date9: 2/10/1994

DELTA AUTO REPAIR ***990 MARSH*** ***ESE 1/4 - 1/2 (0.474 mi.)*** ***K63*** ***103***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 440034
Facility Status: 9- Case Closed
Global Id: T0608100075
Global ID: T0608100075

MARSH ROAD DELI ***763 MARSH*** ***SE 1/4 - 1/2 (0.498 mi.)*** ***68*** ***118***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 440048
Facility Status: 9- Case Closed
Global Id: T0608100932
Global ID: T0608100932
date9: 4/21/2000

Lower Elevation	Address	Direction / Distance	Map ID	Page

KOBLICK SUPPLY ***2950 BAY*** ***WNW 1/4 - 1/2 (0.379 mi.)*** ***G43*** ***64***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330038
Facility Status: 9- Case Closed
Global Id: T0608101035
Global ID: T0608101035
date9: 9/27/1990

AMPEX DATA SYSTEMS C ***1228 DOUGLAS AVE*** ***NW 1/4 - 1/2 (0.398 mi.)*** ***49*** ***73***
MEWES PROPERTY 2906 BAY WNW 1/4 - 1/2 (0.417 mi.) G50 82
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330182
Facility Status: 9- Case Closed
Global Id: T0608123266
Global ID: T0608123266
date9: 3/20/2000

SEQUOIA MILL ***2575 EAST BAYSHORE R*** ***NNW 1/4 - 1/2 (0.421 mi.)*** ***I51*** ***84***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Global Id: T0608100682
date9: 9/19/1994

SEQUOIA MILL ***2575 E BAYSHORE RD*** ***NNW 1/4 - 1/2 (0.421 mi.)*** ***I52*** ***85***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017

Facility Id: 330063
Facility Status: 9- Case Closed
Global ID: T0608100682

MIDLAND PACIFIC CORP ***3536 HAVEN*** ***NE 1/4 - 1/2 (0.447 mi.)*** ***57*** ***90***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 440031
Facility Status: 9- Case Closed
Global Id: T0608100330
Global ID: T0608100330
date9: 10/24/1995

SEARS MERCHANDISE GR ***1325 DOUGLAS*** ***NW 1/4 - 1/2 (0.449 mi.)*** ***58*** ***92***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330131
Facility Status: 9- Case Closed
Global Id: T0608100843
Global ID: T0608100843
date9: 12/7/1995

REDWOOD MOTOR COURT 3706 ROLISON ROAD ENE 1/4 - 1/2 (0.467 mi.) 59 94
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Post remedial action monitoring
Facility Id: 330187
Facility Status: 9- Case Closed
Global Id: T0608114600
Global ID: T0608114600

CALTRANS DISTRICT 4 ***2501 E BAYSHORE BLVD*** ***NW 1/4 - 1/2 (0.488 mi.)*** ***M65*** ***111***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Facility Id: 339203
Facility Id: 330147
Facility Status: 9- Case Closed
Global ID: T0608197613
Global ID: T0608100923

CALTRANS MAINTENANCE ***2501 EAST BAYSHORE R*** ***NW 1/4 - 1/2 (0.488 mi.)*** ***M66*** ***113***
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Global Id: T0608100923

CALTRANS-REDWOOD CIT ***2501 BAYSHORE*** ***NW 1/4 - 1/2 (0.488 mi.)*** ***M67*** ***117***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Pollution Characterization

CA 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 SLIC list, as provided by EDR, has revealed that there are 3 CA SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EDISON TECHNOLOGY PA	***3477-3522 EDISON WAY***	***SSW 1/4 - 1/2 (0.261 mi.)***	***39***	***58***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Site Assessment Global Id: T10000006237				

Lower Elevation	Address	Direction / Distance	Map ID	Page
AMPEX DATA SYSTEMS C	***1228 DOUGLAS AVE***	***NW 1/4 - 1/2 (0.398 mi.)***	***49***	***73***
CALTRANS MAINTENANCE	***2501 EAST BAYSHORE R***	***NW 1/4 - 1/2 (0.488 mi.)***	***M66***	***113***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T0608197613				

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 3 CA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL #3810 Database: UST, Date of Government Version: 03/12/2017 Facility Id: 41-000-017324	844 5TH AVE	W 1/8 - 1/4 (0.158 mi.)	B12	17
AT&T CORP. - P3066 Database: UST, Date of Government Version: 03/12/2017 Facility Id: 41-000-TMP433	3175 SPRING ST	WSW 1/8 - 1/4 (0.227 mi.)	D23	29
K & A PETROLEUM INC/ Database: UST, Date of Government Version: 03/12/2017	795 5TH AVE	WSW 1/8 - 1/4 (0.234 mi.)	D29	52

CA AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the CA AST list, as provided by EDR, and dated 07/06/2016 has revealed that there are 2 CA AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AT&T COMUNICATIONS	3175 SPRING	WSW 1/8 - 1/4 (0.227 mi.)	D21	27
AT&T CORP - P3066	3175 SPRING ST	WSW 1/8 - 1/4 (0.227 mi.)	D22	28

ADDITIONAL ENVIRONMENTAL RECORDS

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 3 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FARM Comp Number: 650018	***27401 HWY 9***	***SW 0 - 1/8 (0.009 mi.)***	***6***	***12***
AT&T REDWOOD CITY Status: A Tank Status: A Comp Number: 330120	***3175 SPRING ST***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D19***	***26***
5TH AVE SERVICE Status: A Tank Status: A Comp Number: 330115	***795 5TH***	***WSW 1/8 - 1/4 (0.234 mi.)***	***D27***	***33***

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 6 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNION OIL SS# 3810 Facility Id: 00000061420	844 5TH AVE	W 1/8 - 1/4 (0.146 mi.)	B9	14
CONOCO PHILLIPS #253	***844 FIFTH AVE***	***W 1/8 - 1/4 (0.146 mi.)***	***B11***	***15***
UNOCAL #3810 Facility Id: 00000031665	***844 5TH***	***W 1/8 - 1/4 (0.158 mi.)***	***B13***	***17***
REDWOOD CITY 4A Facility Id: 00000044161	3175 SPRING ST	WSW 1/8 - 1/4 (0.227 mi.)	D24	29
FIFTH AVENUE SERVICE Facility Id: 00000017772	795-FIFTH AVE	WSW 1/8 - 1/4 (0.234 mi.)	D30	53
5TH AVE SERVICE Facility Id: 00000060687	***795 5TH***	***WSW 1/8 - 1/4 (0.234 mi.)***	***D31***	***54***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIFTH AVENUE SERVICE Facility Id: 41004883 Status: A	795 005TH AVE	WSW 1/8 - 1/4 (0.218 mi.)	D18	25
AT&T REDWOOD CITY Facility Id: 41000082 Status: A	***3175 SPRING ST***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D19***	***26***

Other Ascertainable Records

Hazardous Materials Business Plan, Hazardous Waste Generator, Underground Storage tanks

A review of the CA San Mateo Co. BI list, as provided by EDR, and dated 03/15/2017 has revealed that there are 15 CA San Mateo Co. BI sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FARM Facility Id: FA0016703	***27401 HWY 9***	***SW 0 - 1/8 (0.009 mi.)***	***6***	***12***
5TH AVE 76 Facility Id: FA0016476	844 5TH	W 1/8 - 1/4 (0.146 mi.)	B8	13
BAY ROAD UNOCAL 76 # Facility Id: FA0017324	844 5TH	W 1/8 - 1/4 (0.146 mi.)	B10	14
7-ELEVEN INC. STORE Facility Id: FA0055301	895 5TH	W 1/8 - 1/4 (0.166 mi.)	B15	24
PAW PRINTS Facility Id: FA0055481 Facility Id: FA0016563	3166 BAY	W 1/8 - 1/4 (0.200 mi.)	C16	24
JOES FIAT SERVICE Facility Id: FA0017448	819 5TH	W 1/8 - 1/4 (0.214 mi.)	D17	25
AT&T CORP. - P3066 Facility Id: FA0007966	***3175 SPRING***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D20***	***26***
VALERO Facility Id: FA0057217 Facility Id: FA0017350	795 5TH	WSW 1/8 - 1/4 (0.234 mi.)	D28	52
TRACE ANALYTICAL INC Facility Id: FA0022188 Facility Id: FA0027951 Facility Id: FA0045033 Facility Id: FA0052120	3517 EDISON	SSW 1/8 - 1/4 (0.234 mi.)	E32	55
PORTABLE WATER SUPPL Facility Id: FA0022227	3184 SPRING	WSW 1/8 - 1/4 (0.234 mi.)	D33	56
WELTER STENCIL & ENG Facility Id: FA0012787	793 5TH	WSW 1/8 - 1/4 (0.234 mi.)	D34	56
DIETER'S GERMAN CAR Facility Id: FA0017622	***3511 EDISON WAY***	***SSW 1/8 - 1/4 (0.237 mi.)***	***E35***	***56***
JOHN ZENDER CONSULTI	3507 EDISON	SSW 1/8 - 1/4 (0.241 mi.)	E36	57

Facility Id: FA0023127 Facility Id: FA0052771				
REMCO ENTERPRISES IN Facility Id: FA0017379	3160 SPRING	WSW 1/8 - 1/4 (0.246 mi.)	D37	57
ICE OASIS Facility Id: FA0026254	3140 BAY	W 1/8 - 1/4 (0.246 mi.)	C38	58

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 18 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL STATION #3810 Reg Id: 41-0619	***844 5TH AVENUE***	***W 1/8 - 1/4 (0.158 mi.)***	***B14***	***19***
AT&T Reg Id: 41-0045	***3175 SPRING STREET***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D25***	***30***
5TH AVE SERVICE Reg Id: 41-0227	***795 5TH***	***WSW 1/8 - 1/4 (0.234 mi.)***	***D27***	***33***
GILLIS & LANE INC. Reg Id: 41-0246	***830 2ND***	***W 1/4 - 1/2 (0.331 mi.)***	***40***	***59***
PIC Reg Id: 41-0418	***3004 SPRING***	***W 1/4 - 1/2 (0.356 mi.)***	***F41***	***61***
PACIFIC BELL Reg Id: 41-0398	***867 2ND AVENUE***	***W 1/4 - 1/2 (0.384 mi.)***	***G45***	***67***
MENLO PARK FIRE DIST Reg Id: 41-1091	***4101 FAIR OAKS***	***SSE 1/4 - 1/2 (0.388 mi.)***	***H46***	***71***
DELUCA FOODS Reg Id: 41-0192	***832 BARRON***	***W 1/4 - 1/2 (0.432 mi.)***	***J53***	***86***
DELUCCHI PROPERTY Reg Id: 41-0195	***995 MARSH ROAD***	***ESE 1/4 - 1/2 (0.440 mi.)***	***K56***	***89***
CHEVRON Reg Id: 41-1086	***3805 BOHANNON***	***ESE 1/4 - 1/2 (0.469 mi.)***	***K60***	***97***
DELTA AUTO REPAIR Reg Id: 41-0080	***990 MARSH***	***ESE 1/4 - 1/2 (0.474 mi.)***	***K63***	***103***
MARSH ROAD DELI Reg Id: 41-1019	***763 MARSH***	***SE 1/4 - 1/2 (0.498 mi.)***	***68***	***118***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KOBLICK SUPPLY Reg Id: 41-1126	***2950 BAY***	***WNW 1/4 - 1/2 (0.379 mi.)***	***G43***	***64***
AMPEX DATA SYSTEMS C	***1228 DOUGLAS AVE***	***NW 1/4 - 1/2 (0.398 mi.)***	***49***	***73***
SEQUOIA MILL Reg Id: 41-0719	***2575 EAST BAYSHORE R***	***NNW 1/4 - 1/2 (0.421 mi.)***	***I51***	***84***
MIDLAND PACIFIC CORP	***3536 HAVEN***	***NE 1/4 - 1/2 (0.447 mi.)***	***57***	***90***

Reg Id: 41-0345				
SEARS MERCHANDISE GR	***1325 DOUGLAS***	***NW 1/4 - 1/2 (0.449 mi.)***	***58***	***92***
Reg Id: 41-0915				
CALTRANS MAINTENANCE	***2501 EAST BAYSHORE R***	***NW 1/4 - 1/2 (0.488 mi.)***	***M66***	***113***
Reg Id: 41-1009				

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 11/21/2016 has revealed that there are 2 CA HWP sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***
EPA Id: CAD074665704				
Cleanup Status: PROTECTIVE FILER				
GENERAL CIRCUITS INC	***3585 HAVEN AVENUE***	***NE 1/2 - 1 (0.523 mi.)***	***L69***	***120***
EPA Id: CAD982462335				
Cleanup Status: KNOWN GENERATORS				

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 12/16/2016 has revealed that there are 6 CA Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PIC	***3004 SPRING***	***W 1/4 - 1/2 (0.356 mi.)***	***F42***	***63***
FORMER GAS STATION	955 MARSH ROAD	ESE 1/4 - 1/2 (0.392 mi.)	48	73
UNKNOWN	860 HURLINGAMES	WNW 1/2 - 1 (0.685 mi.)	N72	126
UNKNOWN	197 FIFTH AVENUE	SW 1/2 - 1 (0.953 mi.)	78	135
COORS WEST	2700 MIDDLEFIELD ROA	WSW 1/2 - 1 (0.991 mi.)	79	136

Lower Elevation	Address	Direction / Distance	Map ID	Page
COORS WEST	***890 BROADWAY***	***WNW 1/2 - 1 (0.892 mi.)***	***O75***	***129***

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.

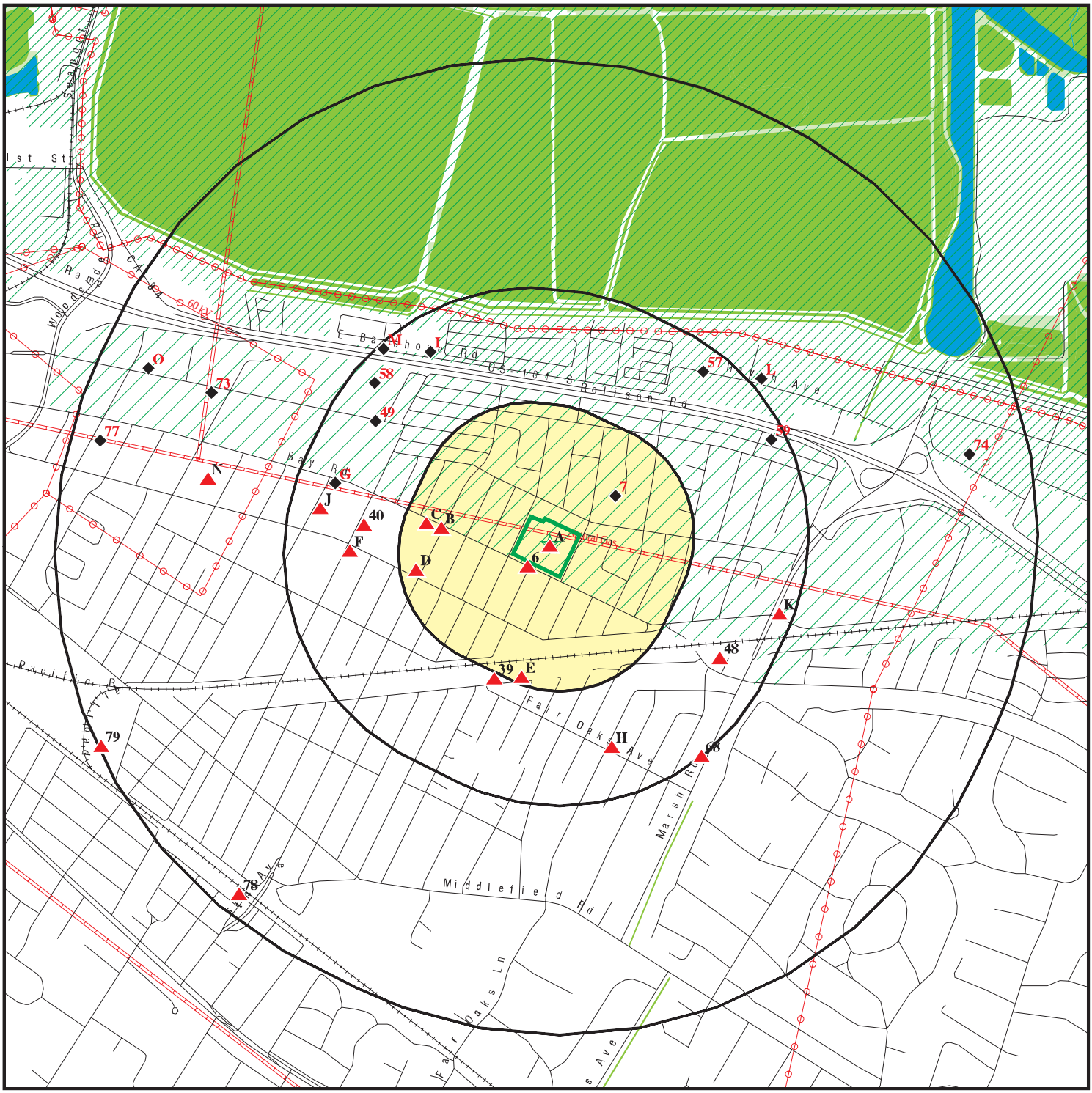
Lower Elevation	Address	Direction / Distance	Map ID	Page
EAST WEST AUTO WORKS	14 YARNALL PL	NE 0 - 1/8 (0.116 mi.)	7	13

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 7 records.

Site Name	Database(s)
BROWNING-FERRIS INDS	SEMS-ARCHIVE
MENLO PARK SAN DIST TRMT PLT	SEMS-ARCHIVE, RCRA NonGen / NLR
PG&E GAS PLANT REDWOOD CITY	SEMS-ARCHIVE
ANTON MENLO	CA LUST
HUETTIG & SCHROMM	CA LUST
SEQUOIA ALTERNATIVE SCHOOL	CA ENVIROSTOR, CA SCH
BROWNING-FERRIS INDUSTRIES	CA ENVIROSTOR

OVERVIEW MAP - 4955887.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 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: Taft Community School	CLIENT: McCloskey Consultants Inc
ADDRESS: 903 Tenth Avenue Redwood City CA 94063	CONTACT: Tom Mccloskey
LAT/LONG: 37.481008 / 122.194425	INQUIRY #: 4955887.2s DATE: June 05, 2017 10:01 am

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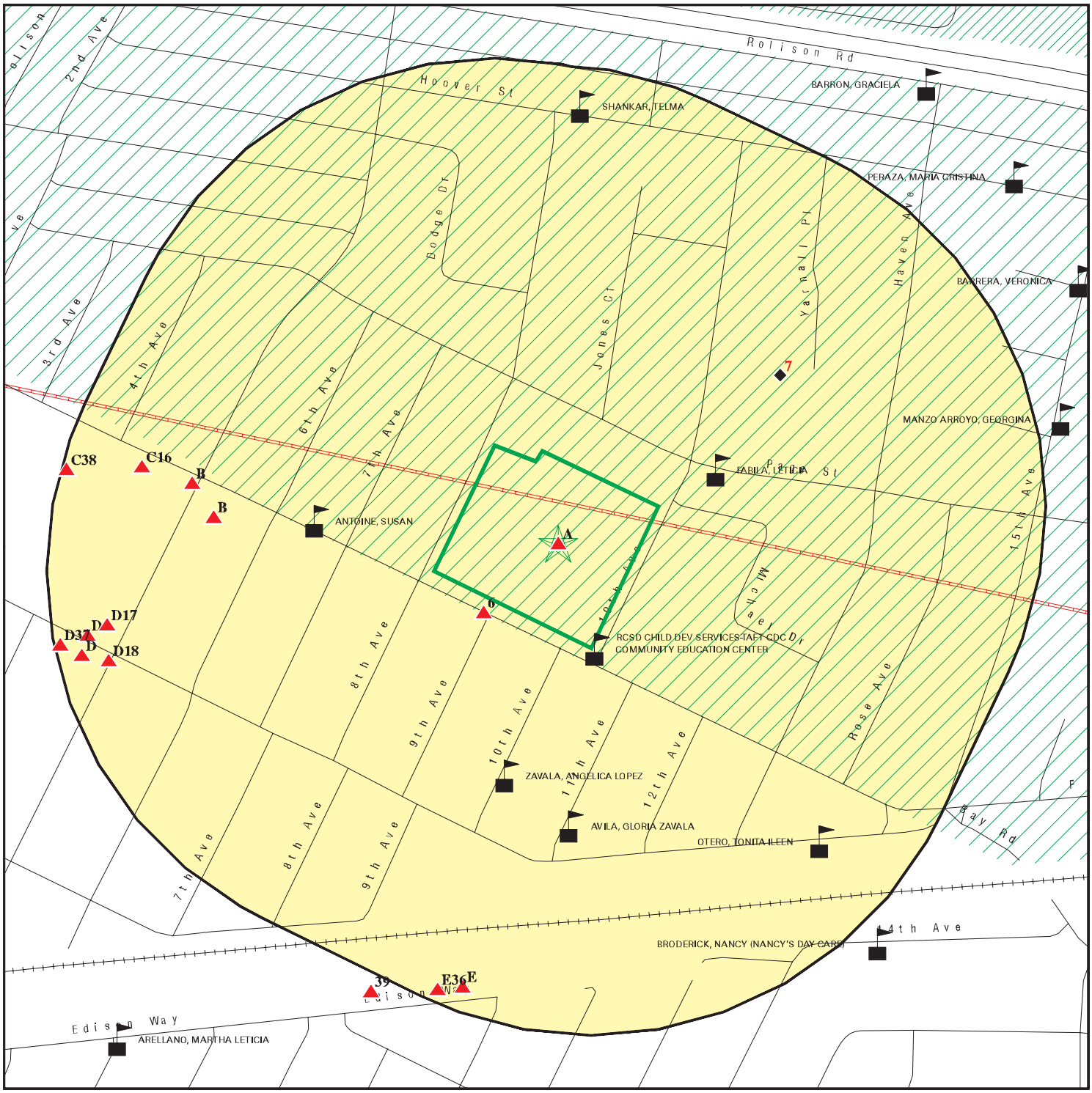
DETAIL MAP - 4955887.2S



- 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
- Indian Reservations BIA
- Pipelines
- 100-year flood zone
- 500-year flood zone
- 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: Taft Community School	CLIENT: McCloskey Consultants Inc
ADDRESS: 903 Tenth Avenue Redwood City CA 94063	CONTACT: Tom Mccloskey INQUIRY #: 4955887.2s
LAT/LONG: 37.481008 / 122.194425	DATE: June 05, 2017 10:04 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	1	1	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	1	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250	1	0	1	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST 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	0	0	NR	0
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		0	0	1	6	NR	7
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	0	1	NR	NR	1
State and tribal leaking storage tank lists								
CA LUST	0.500		0	6	26	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 SLIC	0.500		0	0	3	NR	NR	3
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		0	3	NR	NR	NR	3
CA AST	0.250		0	2	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
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	0	0	NR	NR	0
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	0	0	0	NR	0
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
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		1	2	NR	NR	NR	3
CA HIST UST	0.250		0	6	NR	NR	NR	6
CA FID UST	0.250		0	2	NR	NR	NR	2
Local Land Records								
CA LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	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
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		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	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	1	0	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA San Mateo Co. BI	0.250		1	14	NR	NR	NR	15
CA Cortese	0.500		0	0	0	NR	NR	0
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001		0	NR	NR	NR	NR	0
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	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
CA HAZNET	0.001	3	0	NR	NR	NR	NR	3
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		0	3	15	NR	NR	18
CA HWP	1.000		0	0	1	1	NR	2
CA HWT	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
CA MINES	0.001		0	NR	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	0.001		0	NR	NR	NR	NR	0
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	0	2	4	NR	6
CA UIC	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 WIP	0.250		0	0	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 --		6	3	39	52	12	0	112

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **REDWOOD CITY USD / TAFT ELEMENTARY** **CA HAZNET** **S112916128**
Target **903 10TH AVE** **N/A**
Property **REDWOOD CITY, CA 94063**

Site 1 of 5 in cluster A

Actual:
14 ft.

HAZNET:

envid:	S112916128
Year:	2001
GEPAID:	CAC002367511
Contact:	LENORA DESMAS
Telephone:	6504232240
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 940630000
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	33.71
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

envid:	S112916128
Year:	2001
GEPAID:	CAC002367511
Contact:	LENORA DESMAS
Telephone:	6504232240
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 940630000
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Not reported
Tons:	16.85
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

envid:	S112916128
Year:	2001
GEPAID:	CAC002367511
Contact:	LENORA DESMAS
Telephone:	6504232240
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 940630000
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Transfer Station
Tons:	1.26
Cat Decode:	Not reported
Method Decode:	Not reported

REDWOOD CITY USD / TAFT ELEMENTARY (Continued) **S112916128**

Facility County: San Mateo

A2 **TAFT SCHOOL** **CA HAZNET** **S112997331**
Target **903 10TH AVE** **N/A**
Property **REDWOOD CITY, CA 94063**

Site 2 of 5 in cluster A

Actual: 14 ft.

HAZNET:

envid:	S112997331
Year:	2013
GEPAID:	CAC002737007
Contact:	DONALD DIAS
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	601 JAMES AVE
Mailing City,St,Zip:	REDWOOD CITY, CA 940621044
Gen County:	San Mateo
TSD EPA ID:	CAD980675276
TSD County:	Kern
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:	0.04
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S112997331
Year:	2011
GEPAID:	CAC002681022
Contact:	LEE CHANDLER
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	601 JAMES AVE
Mailing City,St,Zip:	REDWOOD CITY, CA 94062
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
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:	0.25
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

A3 **REDWOOD CITY USD TAFT SCH** **FINDS** **1016264873**
Target **TENTH AVE AT BAY RD** **ECHO** **N/A**
Property **REDWOOD CITY, CA 94063**

Site 3 of 5 in cluster A

Actual:
14 ft.

FINDS:

Registry ID: 110008272001

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:	1016264873
Registry ID:	110008272001
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008272001

A4 **RCSD - TAFT ELEMENTARY SCHOOL** **CA HAZNET** **S112938675**
Target **903 10TH AVE** **N/A**
Property **REDWOOD CITY, CA 94063**

Site 4 of 5 in cluster A

Actual:
14 ft.

HAZNET:

envid:	S112938675
Year:	2005
GEPAID:	CAC002579346
Contact:	DON DIAZ/DIR OF FAC
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 94063
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	21.07
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

envid:	S112938675
Year:	2004
GEPAID:	CAC002579346
Contact:	DON DIAZ/DIR OF FAC
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST

RCSD - TAFT ELEMENTARY SCHOOL (Continued) **S112938675**

Mailing City,St,Zip:	REDWOOD CITY, CA 94063
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	84.28
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

envid:	S112938675
Year:	2004
GEPAID:	CAC002579346
Contact:	DON DIAZ/DIR OF FAC
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 94063
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Not reported
Tons:	15.17
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

A5 **REDWOOD CITY USD TAFT SCH** **RCRA-SQG** **1000438524**
Target **TENTH AVE AT BAY RD** **CAD981678097**
Property **REDWOOD CITY, CA 94063**

Site 5 of 5 in cluster A

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	REDWOOD CITY USD TAFT SCH
Facility address:	TENTH AVE AT BAY RD REDWOOD CITY, CA 94063
EPA ID:	CAD981678097
Mailing address:	815 ALLERTON ST REDWOOD CITY, CA 94063
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

REDWOOD CITY USD TAFT SCH (Continued) **1000438524**

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
- Legal status: District
- Owner/Operator Type: Operator
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: REDWOOD CITY SCHOOL
- Owner/operator address: NOT REQUIRED
  NOT REQUIRED, ME 99999
- Owner/operator country: Not reported
- Owner/operator telephone: (415) 555-1212
- Legal status: District
- 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: 10/09/1986
- Site name: REDWOOD CITY USD TAFT SCH
- Classification: Large Quantity Generator

- Violation Status: No violations found

---

6 **FARM** **CA SWEEPS UST** **S106926069**
SW **27401 HWY 9** **CA San Mateo Co. BI** **N/A**
< 1/8 **WOODSIDE, CA 94062**
0.009 mi.
50 ft.

Relative:
Higher

Actual:
15 ft.

SWEEPS UST:
- Status: Not reported
- Comp Number: 650018
- Number: Not reported
- Board Of Equalization: Not reported
- Referral Date: Not reported

FARM (Continued) **S106926069**

Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-650018-000001
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0016703
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0022729
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

---

7 **EAST WEST AUTO WORKS** **EDR Hist Auto** **1020618149**
NE **14 YARNALL PL** **N/A**
< 1/8 **REDWOOD CITY, CA 94063**
0.116 mi.
610 ft.

Relative: **Lower**

Actual: **13 ft.**

EDR Hist Auto

Year:	Name:	Type:
2004	EAST WEST AUTO WORKS	General Automotive Repair Shops
2005	EAST WEST AUTO WORKS	General Automotive Repair Shops
2006	EAST WEST AUTO WORKS	General Automotive Repair Shops

B8 **5TH AVE 76** **CA San Mateo Co. BI** **S113756233**
West **844 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.146 mi.
773 ft. **Site 1 of 8 in cluster B**

Relative: **Higher**

Actual: **15 ft.**

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0016476
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0065558
Description: GENERATES <27 GAL/YEAR
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0016476
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0065557
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0016476

5TH AVE 76 (Continued) **S113756233**

Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0065560
Description: UNDERGROUND TANK - GENERAL
Facility Status: ACTIVE

B9 **UNION OIL SS# 3810** **CA HIST UST** **1000167166**
West **844 5TH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.146 mi.
773 ft. **Site 2 of 8 in cluster B**

Relative:
Higher

Actual:
15 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000061420
Facility Type: Gas Station
Other Type: Not reported
Contact Name: HARRY L. ZIESE
Telephone: 4153686466
Owner Name: UNION OIL CO.
Owner Address: 1 CALIFORNIA ST., SUITE 2700
Owner City,St,Zip: SAN FRANCISCO, CA 94111
Total Tanks: 0001

Tank Num: 001
Container Num: 3810-10-1
Year Installed: 1968
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Visual

B10 **BAY ROAD UNOCAL 76 #253810** **CA San Mateo Co. BI** **S113756344**
West **844 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.146 mi.
773 ft. **Site 3 of 8 in cluster B**

Relative:
Higher

Actual:
15 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0017324
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0045020
Description: GENERATES <27 GAL/YEAR
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017324
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0003712
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: INACTIVE

Region: SAN MATEO

BAY ROAD UNOCAL 76 #253810 (Continued) **S113756344**

Facility ID: FA0017324
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0022414
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

B11 **CONOCO PHILLIPS #253810** **CA HIST UST** **S113132029**
West **844 FIFTH AVE** **CA HAZNET** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.146 mi.
773 ft. **Site 4 of 8 in cluster B**

Relative:
Higher

Actual:
15 ft.

HIST UST:

File Number:	0002C3E9
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C3E9.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
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:

HAZNET:

envid:	S113132029
Year:	2008
GEPAID:	CAL000282305
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481

CONOCO PHILLIPS #253810 (Continued) **S113132029**

TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Other Treatment
Tons:	0.1
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo
envid:	S113132029
Year:	2008
GEPAID:	CAL000282305
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Tons:	0.06
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo
envid:	S113132029
Year:	2008
GEPAID:	CAL000282305
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.034
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo
envid:	S113132029
Year:	2006
GEPAID:	CAL000282305
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD PO 3014A
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent

CONOCO PHILLIPS #253810 (Continued) **S113132029**

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.08
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Mateo

envid: S113132029
Year: 2006
GEPAID: CAL000282305
Contact: DANELLE EICHHORST
Telephone: 2812933723
Mailing Name: Not reported
Mailing Address: 600 N DAIRY ASHFORD PO 3014A
Mailing City,St,Zip: HOUSTON, TX 77079
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: 0.07
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Mateo

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

B12 **UNOCAL #3810** **CA UST** **U003942641**
West **844 5TH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.158 mi.
835 ft. **Site 5 of 8 in cluster B**

Relative:
Higher

Actual:
14 ft.

UST:
Facility ID: Not reported
Permitting Agency: San Mateo County Environmental Health
Latitude: 37.48127
Longitude: -122.198479

Facility ID: 41-000-017324
Permitting Agency: SAN MATEO COUNTY
Latitude: 37.482601
Longitude: -122.19712

B13 **UNOCAL #3810** **CA LUST** **U001594613**
West **844 5TH** **CA HIST UST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.158 mi.
835 ft. **Site 6 of 8 in cluster B**

Relative:
Higher

Actual:
14 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Post remedial action monitoring

UNOCAL #3810 (Continued) **U001594613**

Case Number: 330075
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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: 1/1/1965

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000031665
Facility Type: Gas Station
Other Type: Not reported
Contact Name: HARRY L. ZIESE
Telephone: 4153686466
Owner Name: UNION OIL CO.
Owner Address: 1 CALIFORNIA ST. SUITE 2700
Owner City,St,Zip: SAN FRANCISCO, CA 94111
Total Tanks: 0003

Tank Num: 001
Container Num: 3810-1-1
Year Installed: 1980
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 002
Container Num: 3810-2-1
Year Installed: 1980
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 003
Container Num: 3810-4-1
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

B14 **UNOCAL STATION #3810** **CA LUST** **S100947471**
West **844 5TH AVENUE** **CA HIST CORTESE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.158 mi.
835 ft. **Site 7 of 8 in cluster B**

Relative:
Higher

Actual:
14 ft.

LUST:

Region:	STATE
Global Id:	T0608100591
Latitude:	37.481269321147
Longitude:	-122.198513746262
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/07/2011
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0619
LOC Case Number:	330075
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Can be extracted from most recent report in Geotracker or at San Mateo County offices if submitted prior to 2005, San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100591
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100591
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

Status History:

Global Id:	T0608100591
Status:	Completed - Case Closed
Status Date:	09/07/2011

Global Id:	T0608100591
Status:	Open - Case Begin Date
Status Date:	12/21/1989

Global Id:	T0608100591
Status:	Open - Verification Monitoring

UNOCAL STATION #3810 (Continued) **S100947471**

Status Date: 01/19/1995

Regulatory Activities:

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 06/06/2011
Action: Staff Letter - #20110606

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2008
Action: Monitoring Report - Semi-Annually

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 06/15/2011
Action: Technical Correspondence / Assistance / Other - #20110615

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 04/26/2011
Action: Technical Correspondence / Assistance / Other - #20110426

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2010
Action: Monitoring Report - Annually

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/10/2005
Action: Monitoring Report - Other

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/10/2006
Action: Soil and Water Investigation Workplan

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2006
Action: Monitoring Report - Annually

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2007
Action: Monitoring Report - Annually

Global Id: T0608100591
Action Type: RESPONSE
Date: 02/07/2007
Action: Sensitive Receptor Survey Report

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2009
Action: Monitoring Report - Semi-Annually

UNOCAL STATION #3810 (Continued) **S100947471**

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 11/02/1990
Action: Notice of Responsibility - #19901102

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 12/14/2004
Action: Staff Letter - #20041214

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 02/07/2006
Action: Staff Letter - #20060207B

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 02/07/2006
Action: Staff Letter - #20060207A

Global Id: T0608100591
Action Type: Other
Date: 11/14/1989
Action: Leak Discovery

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 09/02/2010
Action: Technical Correspondence / Assistance / Other - #20100902

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 09/07/2011
Action: Closure/No Further Action Letter - #20110907

Global Id: T0608100591
Action Type: RESPONSE
Date: 12/31/2010
Action: Correspondence

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 07/22/2009
Action: Staff Letter - #20090722

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 03/30/2011
Action: Technical Correspondence / Assistance / Other - #20110330

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 12/21/2010
Action: Staff Letter - #20101221

Global Id: T0608100591
Action Type: Other

UNOCAL STATION #3810 (Continued) **S100947471**

Date: 11/01/1990
Action: Leak Reported

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/13/2011
Action: Well Destruction Report

Global Id: T0608100591
Action Type: RESPONSE
Date: 07/30/2010
Action: Request for Closure

Global Id: T0608100591
Action Type: RESPONSE
Date: 02/15/2010
Action: Electronic Reporting Submittal Due

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 01/04/2010
Action: Staff Letter - #20100104

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 01/24/2011
Action: Staff Letter - #20110124

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/10/2006
Action: Electronic Reporting Submittal Due

Global Id: T0608100591
Action Type: RESPONSE
Date: 02/07/2007
Action: Electronic Reporting Submittal Due

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/15/2008
Action: Monitoring Report - Semi-Annually

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 11/22/2010
Action: Staff Letter - #20101122

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 03/05/2009
Action: Staff Letter - #20090305

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/15/2009
Action: Monitoring Report - Semi-Annually

UNOCAL STATION #3810 (Continued) **S100947471**

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 09/08/2005
Action: Staff Letter - #20050908

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 04/30/2002
Action: Staff Letter - #20020430

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 03/04/2004
Action: Staff Letter - #20040304

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 11/01/2005
Action: Staff Letter - #20051101

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 01/03/2008
Action: Staff Letter - #20080103

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 10/17/2006
Action: Staff Letter - #20061017

Global Id: T0608100591
Action Type: RESPONSE
Date: 09/21/2011
Action: Well Destruction Report

Global Id: T0608100591
Action Type: REMEDIATION
Date: 03/21/1997
Action: Pump & Treat (P&T) Groundwater

Global Id: T0608100591
Action Type: REMEDIATION
Date: 03/21/1997
Action: Excavation

Global Id: T0608100591
Action Type: REMEDIATION
Date: 10/12/1994
Action: Excavation

Global Id: T0608100591
Action Type: REMEDIATION
Date: 12/10/1990
Action: Pump & Treat (P&T) Groundwater

UNOCAL STATION #3810 (Continued) **S100947471**

SAN MATEO CO. LUST:
- Region: SAN MATEO
- Facility ID: 330075
- Facility Status: 9- Case Closed
- Global ID: T0608100591
- APN Number: 055082010
- Case Type: SAN MATEO CO. LUST
- EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
- Region: CORTESE
- Facility County Code: 41
- Reg By: LTNKA
- Reg Id: 41-0619

B15 **7-ELEVEN INC. STORE #14339** **CA San Mateo Co. BI** **S116348348**
West **895 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.166 mi.
878 ft. **Site 8 of 8 in cluster B**

Relative:
Higher

Actual:
14 ft.

San Mateo Co. BI:
- Region: SAN MATEO
- Facility ID: FA0055301
- Prog Element Code: STORES MV FUELS OR WASTE ONLY
- Record Id: PR0076256
- Description: STORES MV FUELS OR WASTE ONLY
- Facility Status: ACTIVE

C16 **PAW PRINTS** **CA San Mateo Co. BI** **S113756239**
West **3166 BAY** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.200 mi.
1058 ft. **Site 1 of 2 in cluster C**

Relative:
Higher

Actual:
14 ft.

San Mateo Co. BI:
- Region: SAN MATEO
- Facility ID: FA0055481
- Prog Element Code: GENERATES <27 GAL/YEAR
- Record Id: PR0076506
- Description: GENERATES <27 GAL/YEAR
- Facility Status: ACTIVE

- Region: SAN MATEO
- Facility ID: FA0016563
- Prog Element Code: BUSINESS PLAN - GENERAL
- Record Id: PR0068278
- Description: BUSINESS PLAN - GENERAL
- Facility Status: INACTIVE

- Region: SAN MATEO
- Facility ID: FA0016563
- Prog Element Code: GENERATES <27 GAL/YEAR
- Record Id: PR0024927
- Description: GENERATES <27 GAL/YEAR

PAW PRINTS (Continued) **S113756239**

Facility Status: INACTIVE

D17 **JOES FIAT SERVICE** **CA San Mateo Co. BI** **S113756417**
West **819 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.214 mi.
1129 ft. **Site 1 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0017448
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0011110
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0017448
Prog Element Code:	LESS THAN 500 TIRES
Record Id:	PR0045609
Description:	LESS THAN 500 TIRES
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0017448
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0003880
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status:	INACTIVE

D18 **FIFTH AVENUE SERVICE** **CA FID UST** **S101623069**
WSW **795 005TH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.218 mi.
1149 ft. **Site 2 of 18 in cluster D**

Relative:
Higher

Actual:
19 ft.

CA FID UST:

Facility ID:	41004883
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4150000000
Mail To:	Not reported
Mailing Address:	795 005TH AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	REDWOOD CITY 94063
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

D19 **AT&T REDWOOD CITY** **CA SWEEPS UST** **S101593666**
WSW **3175 SPRING ST** **CA FID UST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 3 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

SWEEPS UST:

Status:	Active
Comp Number:	330120
Number:	1
Board Of Equalization:	Not reported
Referral Date:	04-07-94
Action Date:	04-07-94
Created Date:	06-08-90
Owner Tank Id:	RDCYCA-U1
SWRCB Tank Id:	41-000-330120-000001
Tank Status:	A
Capacity:	8000
Active Date:	04-07-94
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	1

CA FID UST:

Facility ID:	41000082
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	3175 SPRING ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	REDWOOD CITY 94063
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

D20 **AT&T CORP. - P3066** **CA LUST** **S102424709**
WSW **3175 SPRING** **CA San Mateo Co. BI** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 4 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	330016
How Discovered:	OM
Leak Cause:	Unknown
Leak Source:	Unknown
Date Leak Confirmed:	Not reported
Oversight Program:	LUST

AT&T CORP. - P3066 (Continued) **S102424709**

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

San Mateo Co. BI:

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0037975
Description: GENERATES <27 GAL/YEAR
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: STORES HAZ MAT <31999GAL,239999LB, 111999FT^3
Record Id: PR0023425
Description: STORES HAZ MAT <31999GAL,223999LB, 111999CF
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: 2354
Record Id: PR0066752
Description: TANK STOR CAP => 10,000 AND <100,000 GAL
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0022433
Description: UNDERGROUND TANK - GENERAL
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: 2354
Record Id: PR0049064
Description: TANK STOR CAP => 10,000 AND <100,000 GAL
Facility Status: INACTIVE

D21 **AT&T COMUNICATIONS** **CA AST** **A100340131**
WSW **3175 SPRING** **N/A**
1/8-1/4 **REDWOOD CITY, CA**
0.227 mi.
1201 ft. **Site 5 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

AST:
Certified Unified Program Agencies: San Mateo
Owner: Not reported
Total Gallons: 10,000
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported

AT&T COMUNICATIONS (Continued) **A100340131**

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

D22 **AT&T CORP - P3066** **CA AST** **A100417339**
WSW **3175 SPRING ST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 6 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	AT&T Corp.
Total Gallons:	Not reported
CERSID:	10072018
Facility ID:	41-000-TMP433
Business Name:	AT&T Corporation
Phone:	(925) 998-5876
Fax:	925-973-0584
Mailing Address:	308 S. Akard Street, Room 1708
Mailing Address City:	Dallas
Mailing Address State:	TX
Mailing Address Zip Code:	75202
Operator Name:	AT&T Corp.
Operator Phone:	(925) 998-5876
Owner Phone:	214-464-2626
Owner Mail Address:	308 S. Akard Street, Room 1708
Owner State:	TX
Owner Zip Code:	75202
Owner Country:	United States
Property Owner Name:	AT&T Corp.
Property Owner Phone:	(214) 464-2626
Property Owner Mailing Address:	308 S. Akard St., Room 1708
Property Owner City:	Dallas
Property Owner Stat :	TX
Property Owner Zip Code:	75202
Property Owner Country:	United States
EPAID:	CAT080019888

D23 **AT&T CORP. - P3066** **CA UST** **U004262449**
WSW **3175 SPRING ST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 7 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

UST:
Facility ID: 41-000-TMP433
Permitting Agency: San Mateo County Environmental Health
Latitude: 37.480267
Longitude: -122.200031

D24 **REDWOOD CITY 4A** **CA HIST UST** **U001594597**
WSW **3175 SPRING ST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 8 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

HIST UST:
File Number: 0002BB78
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002BB78.pdf
Region: STATE
Facility ID: 00000044161
Facility Type: Other
Other Type: COMMUNICATIONS
Contact Name: DISTRICT MGR.-BLDG. & R.E.
Telephone: 4154606500
Owner Name: A.T.&T. COMMUNICATIONS, INC.,
Owner Address: 5925 W. LAS POSITAS BLVD.
Owner City,St,Zip: PLEASANTON, CA 94566
Total Tanks: 0003

Tank Num: 001
Container Num: B56263X-1
Year Installed: 1974
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 1/4
Leak Detection: None

Tank Num: 002
Container Num: B56263X-2
Year Installed: 1969
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 1/4
Leak Detection: None

Tank Num: 003
Container Num: B56263X-3
Year Installed: 1974
Tank Capacity: 00000275
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 14
Leak Detection: Visual

REDWOOD CITY 4A (Continued) **U001594597**

Click here for Geo Tracker PDF:

D25 **AT&T** **CA LUST** **S104973116**
WSW **3175 SPRING STREET** **CA HIST CORTESE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 9 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

LUST:

Region:	STATE
Global Id:	T0608100044
Latitude:	37.4810777583172
Longitude:	-122.200163304806
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/05/2000
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0045
LOC Case Number:	330016
File Location:	Local Agency Warehouse
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100044
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100044
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

Status History:

Global Id:	T0608100044
Status:	Completed - Case Closed
Status Date:	09/05/2000

Global Id:	T0608100044
Status:	Open - Case Begin Date
Status Date:	04/04/1988

Regulatory Activities:

AT&T (Continued) **S104973116**

Global Id: T0608100044
Action Type: Other
Date: 01/31/1989
Action: Leak Discovery

Global Id: T0608100044
Action Type: ENFORCEMENT
Date: 01/15/1989
Action: Notice of Responsibility - #1

Global Id: T0608100044
Action Type: Other
Date: 04/04/1988
Action: Leak Reported

Global Id: T0608100044
Action Type: REMEDIATION
Date: 09/20/1989
Action: Excavation

Global Id: T0608100044
Action Type: REMEDIATION
Date: 09/20/1989
Action: Excavation

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330016
Facility Status: 9- Case Closed
Global ID: T0608100044
APN Number: Not reported
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0045

D26 **PACIFIC BELL** **RCRA-SQG** **1000251156**
WSW **3175 SPRING STREET** **FINDS** **CAT080019888**
1/8-1/4 **REDWOOD CITY, CA 94063** **ECHO**
0.227 mi.
1201 ft. **Site 10 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: PACIFIC BELL
Facility address: 3175 SPRING STREET
REDWOOD CITY, CA 94063
EPA ID: CAT080019888
Mailing address: 2 NORTH SECOND ST ROOM 1125
SAN JOSE, CA 95113
Contact: Not reported
Contact address: Not reported

PACIFIC BELL (Continued) **1000251156**

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: THE PACIFIC TELEPHONE AND TELEGRAPH CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
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
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: 01/19/1981
Site name: PACIFIC BELL
Classification: Large Quantity Generator

Violation Status: No violations found

PACIFIC BELL (Continued) **1000251156**

FINDS:

Registry ID: 110055873210

Environmental Interest/Information System
STATE MASTER

Registry ID: 110002948785

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: 1000251156
Registry ID: 110002948785
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002948785

D27 **5TH AVE SERVICE** **CA LUST** **S101325110**
WSW **795 5TH** **CA SWEEPS UST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063** **CA HIST CORTESE**
0.234 mi.
1233 ft. **Site 11 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

LUST:
Region: STATE
Global Id: T0608100216
Latitude: 37.4799187927235
Longitude: -122.199913859367
Case Type: LUST Cleanup Site
Status: Open - Eligible for Closure
Status Date: 01/23/2017
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0227
LOC Case Number: 330039
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: The following is extracted from the Site Conceptual Model dated December 28, 2009, and was augmented/clarified by San Mateo County LOP staff. The LOP does not take responsibility for the accuracy of the statements referenced in reports. 1970 - Chevron reportedly the station operator. 1970 through 1978 - Texaco reportedly operated the station. January 1984 - Moshe Shatzki (Morry Zaski) subleases the site from the Alliance Oil Company and operates the service station. January 1984 - Redwood City Fire Department (RCFD), responded to gasoline odor complaints from businesses surrounding the site and

5TH AVE SERVICE (Continued) **S101325110**

informed station owner a possible leak of gasoline occurred. The RCFD required testing to determine the integrity of the USTs and piping. February 1984 - tested USTs and piping. Four of the six product supply lines were found to be leaking (exact location not specified). Approximately 1,260 gallons of fuel reportedly released, but no documentation in file substantiating. The lines were replaced, however, odor complaints continued. RCFD found evidence of possible gasoline contamination offsite prompting the RCFD to request the installation of monitoring wells. September 1984 - Morry Zaski purchases property and remains station operator. April 1985 - United Soil Engineering installed groundwater monitoring wells MW1 and MW2 (originally named P1 and P2). 1989 - periodic groundwater monitoring commenced. The report on 2001 UST removal speculated the October 1989 Loma Prieta earthquake caused leakage from product piping connections resulting in the measured increase in free product thickness (up to 3 inches). LOP staff referenced a November 1989 pump failure that may explain the finding. April 1990 - Soil Tech Engineering drilled Borings B-1 through B3 and converted B3 to MW-3 (originally referred to as well STW-3). May and June 1990 - USTs tested tight and were reportedly relined. Approximately 5 tons of soil disposed offsite. An automatic product recovery skimmer operated in MW1 and MW2 for 6 weeks. April 1991 - RWQCB issued Cleanup and Abatement Order 91-045 naming Mr. Morry Zaski as the responsible party (RP). July 1991 - LOP named Alliance Petroleum, Victor Colombini, George Farnum, and Dale Bunyard as additional RPs. December 1992 - analyzed a NAPL sample. Results indicated it was 96% gasoline. February - ETIC drilled Borings B1 through B12 and converted three of the borings to MW-4 through MW-6. NAPL reported in B2, B3, B4, B10 and B11. July 1994 - ETIC performed slug and 10 hour pumping tests. November 1994 - ETIC installed soil vapor extraction well SVE1 and air sparge well AS1 and performed a brief SVE and AS test. January 1995 - ETIC installed wells MW7 and MW8 on the downgradient AT&T property. February 1995 - ETIC installed wells MW9 and MW10. April 1995 - ETIC prepared a feasibility study. August 1995 - ETIC installed MW-11 and seven onsite soil vapor extraction wells (V2 through V8). September 1995 - ETIC installed wells MW12 through MW17. February 1996 - ETIC installed wells MW18 and MW19. August 1996 - ETIC drilled grab groundwater Borings EB1 through EB9. September 1996 - ETIC performed a well receptor survey. Identified several residential wells near the site. January 1997 - ETIC installed monitoring wells MW20, MW21 and MW22. May 1997 - ETIC performed risk assessment, fate and transport and remedial method evaluation. June 1998 - ETIC submitted a corrective action plan. May 1999 - installed wells ORC1 through ORC4, EX1 and EX2. July 1999 - installed oxygen releasing compound (ORC) socks in wells ORC1 through ORC4. January 2000 - installed wells ORC5 through ORC7 in front of the residences with residential wells. April 2000 - ETIC drilled groundwater sampling Borings GP-1 through GP-13 andGP-15 through GP-20. May 2000 - ETIC destroyed MW1 and MW2 and installed wells MW1A and MW2A, EX3, MW8P, MW15A, MW15AP. June 2000 - ETIC performed a pumping test on MW1A, MW2A and EX3. July 2000 - ETIC performed a pumping test on MW8, MW15A and ORC2. October 2000 - submitted a remedial action plan for pump and treat remediation. April 2001 - destroyed MW2A, EX3, V2, V5 and AS1 by pressure grouting and replaced 3 single-walled steel USTs (two 10,000-gallon and one 6,000-gallon) with two new double walled 20,000 gallon USTs. Approximately 1,087 tons of hydrocarbon-impacted soil and 480,000 gallons of contaminated groundwater were removed and disposed offsite

5TH AVE SERVICE (Continued) **S101325110**

during 2001. October 2002 - installed monitoring well MW23 on Fourth Avenue. February 2003 - GET performed a subsurface utility survey. A geophysical survey and limited soil excavation was not successful at locating well MW7 (LOP consider abandoned). December 2003 - installed monitoring well MW24. August 2004 - drilled out vapor extraction well V2. 2007 - K&A Petroleum became responsible for site corrective action. Mr. Zaski's UST Cleanup Fund rights were eventually assigned to K&A Petroleum. December 2007 - Pangea began groundwater monitoring at the site. February 2008 - Pangea installed MW25 and destroyed wells MW5, MW8P, MW9, MW10, MW11, MW14, MW15A, MW15AP, MW20, ORC1, ORC2, ORC5 and ORC7. August 2009 - Pangea drilled soil boring SB-1 and two adjacent Hydropunch-type borings for discrete-depth groundwater sampling up to 43 to 48 ft bgs. Details of the offsite investigation are presented in the Offsite Investigation Report dated October 29, 2009. May and June 2011 - Pangea installed sub-slab vapor probes SS1 and SS2 and collects vapor samples. February 2013 - Pangea collected sub-slab vapor samples from SS1 and SS2. April 2012 - Pangea drilled Borings B13 through B-15. February 2013 - Pangea installed well MW26. June 2016 - Pangea drilled Borings SB-2 and SB-3.
Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100216
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100216
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

Status History:

Global Id:	T0608100216
Status:	Open - Case Begin Date
Status Date:	01/12/1984

Global Id:	T0608100216
Status:	Open - Eligible for Closure
Status Date:	01/23/2017

Global Id:	T0608100216
Status:	Open - Site Assessment
Status Date:	04/20/2009

Global Id:	T0608100216
Status:	Open - Verification Monitoring

5TH AVE SERVICE (Continued) **S101325110**

Status Date: 12/31/2002

Regulatory Activities:

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 05/17/2005
Action: Verbal Enforcement

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/18/1991
Action: Notice of Responsibility - #19910718A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/15/1991
Action: Clean-up and Abatement Order - #19910415

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/27/1998
Action: Complaint - #19980127

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/13/2006
Action: Staff Letter - #20060913

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/21/2006
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/27/2007
Action: Notice of Responsibility - #20071127B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/10/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 06/27/2003
Action: Staff Letter - #20030627A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 05/29/2009
Action: Notice of Violation - #20090529B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/03/1991
Action: Notice of Responsibility - #19910903A

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/03/1991
Action: Notice of Responsibility - #19910903B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/29/1991
Action: Notice of Violation - #19910829

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/23/1991
Action: Notice of Violation - #19910723

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/17/1990
Action: Notice to Comply - #19900117

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/25/2006
Action: Staff Letter - #20060925A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/25/2006
Action: Staff Letter - #20060925B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/15/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/08/2003
Action: Staff Letter - #20030908

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/11/2005
Action: Staff Letter - #20051011

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/23/2006
Action: Staff Letter - #20060823

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/25/2004
Action: Staff Letter - #20040325

Global Id: T0608100216
Action Type: ENFORCEMENT

5TH AVE SERVICE (Continued) **S101325110**

Date: 10/04/2004
Action: Staff Letter - #20041004

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/26/2004
Action: Staff Letter - #20040826

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/21/2007
Action: Staff Letter - #20071121

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/10/1989
Action: Notice of Reimbursement - #19891010

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/07/2006
Action: Staff Letter - #20060207

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/13/2006
Action: Staff Letter - #20060213

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/18/2006
Action: Notice of Violation - #20060718

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/23/2012
Action: Technical Correspondence / Assistance / Other - #20120423

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/16/2012
Action: Staff Letter - #20120416

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/11/2012
Action: Staff Letter - #20120411

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/11/2012
Action: Technical Correspondence / Assistance / Other - #20120411

Global Id: T0608100216
Action Type: RESPONSE
Date: 10/27/2008
Action: Electronic Reporting Submittal Due

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/14/2010
Action: Correspondence

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2008
Action: Technical Correspondence / Assistance / Other - #20081201

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/27/2008
Action: Staff Letter - #20081027B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/27/2008
Action: Staff Letter - #20081027A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/22/2011
Action: Staff Letter - #20110322

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 06/27/2011
Action: Staff Letter - #20110627

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/26/1984
Action: Notice to Comply - #19841226

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2015
Action: Email Correspondence - #20151201

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/31/2007
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/28/2003
Action: Other Report / Document

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/30/2003
Action: Well Installation Report

Global Id: T0608100216
Action Type: RESPONSE

5TH AVE SERVICE (Continued) **S101325110**

Date: 05/17/2004
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 06/15/2005
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/15/2006
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/15/2007
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2003
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2004
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2005
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2006
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2007
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/24/2004
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 03/15/2004
Action: Other Report / Document

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2004
Action: Other Report / Document

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: RESPONSE
Date: 06/06/2005
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 03/23/2006
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/12/2006
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE
Date: 03/13/2006
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE
Date: 04/20/2004
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/12/2006
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/12/2006
Action: Other Report / Document

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/07/2007
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE
Date: 04/28/2012
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 10/05/2004
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/31/2008
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE

5TH AVE SERVICE (Continued) **S101325110**

Date: 11/30/2008
Action: NPDES / WDR Reports

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/30/2003
Action: Other Report / Document

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/05/1992
Action: Notice of Responsibility - #19921105

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/31/2008
Action: Staff Letter - #20080331

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/02/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/08/2013
Action: Technical Correspondence / Assistance / Other - #20130108

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/28/2016
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/30/2014
Action: Staff Letter - #20140130

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/31/2013
Action: Technical Correspondence / Assistance / Other - #20130131

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/07/2007
Action: Staff Letter - #20071107

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/25/2003
Action: Staff Letter - #20030825

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/28/2005
Action: Staff Letter - #20050228

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/08/2007
Action: Staff Letter - #20071108

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/15/2004
Action: Notice of Violation - #20040315

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/06/2007
Action: Notice of Violation - #20070706

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/19/2008
Action: Notice of Violation - #20080319

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/26/2007
Action: Staff Letter - #20071126B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/27/2007
Action: Staff Letter - #20071127A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/01/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/22/1995
Action: Staff Letter - #19951122

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/01/1991
Action: Staff Letter - #19910801

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 05/29/2009
Action: Staff Letter - #20090525A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/27/2009
Action: Technical Correspondence / Assistance / Other - #20090727

Global Id: T0608100216
Action Type: ENFORCEMENT

5TH AVE SERVICE (Continued) **S101325110**

Date: 04/21/2005
Action: Staff Letter - #20050421

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/02/2006
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/18/2008
Action: Staff Letter - #20080418

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/09/2013
Action: Staff Letter - #20130109

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/18/2006
Action: Well Destruction Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/15/2010
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: Other
Date: 01/12/1984
Action: Leak Reported

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/12/2006
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/24/2004
Action: Well Destruction Report

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/02/2009
Action: Staff Letter - #20091202

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2009
Action: Staff Letter - #20091201

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/06/2010
Action: Technical Correspondence / Assistance / Other - #20101206

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/03/2013
Action: Technical Correspondence / Assistance / Other - #20130103

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/25/2013
Action: Technical Correspondence / Assistance / Other - #20130225

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2016
Action: Notice of Violation - #20161201

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/14/2010
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/14/2010
Action: Conceptual Site Model

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/09/2016
Action: Staff Letter - #20160309

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/23/2017
Action: Staff Letter - #20170123

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/13/2010
Action: Staff Letter - #20100713

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/26/2007
Action: Staff Letter - #20071126A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 06/27/2003
Action: Staff Letter - #20030627B

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/04/2006
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE

5TH AVE SERVICE (Continued) **S101325110**

Date: 08/28/2007
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/06/2006
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/28/2007
Action: Other Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 03/28/2008
Action: Well Destruction Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/05/2008
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: RESPONSE
Date: 04/25/2012
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/12/1989
Action: Warning Letter - #19891012

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/18/1991
Action: Notice of Responsibility - #19910718B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/27/1998
Action: Rescission of Enforcement Action - #19980127

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/06/2007
Action: Staff Letter - #20070706

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/20/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/02/2004
Action: Staff Letter - #20040402

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/27/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 06/22/1998
Action: Rescission of Enforcement Action - #19980622

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/29/2005
Action: Staff Letter - #20051229

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 05/23/2005
Action: Staff Letter - #20050523

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/21/2007
Action: Staff Letter - #20070821

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/15/2007
Action: Staff Letter - #20071115

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/28/2007
Action: Notice of Responsibility - #20071128

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/10/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/15/2004
Action: Staff Letter - #20040315

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/30/2003
Action: Staff Letter - #20031230

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/12/2006
Action: Staff Letter - #20060112

Global Id: T0608100216
Action Type: RESPONSE

5TH AVE SERVICE (Continued) **S101325110**

Date: 12/15/2010
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 10/27/2008
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/30/2009
Action: Conceptual Site Model

Global Id: T0608100216
Action Type: RESPONSE
Date: 06/06/2005
Action: Other Report / Document

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/30/2003
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/28/2003
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/15/2012
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/15/2013
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 04/28/2012
Action: Site Assessment Report

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2015
Action: Staff Letter - #20151201

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/03/2009
Action: Staff Letter - #20090803

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/20/2013
Action: Technical Correspondence / Assistance / Other - #20130220

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: Other
Date: 02/01/1984
Action: Leak Discovery

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/11/2011
Action: Technical Correspondence / Assistance / Other - #20110711

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/07/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 10/29/2009
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/15/2008
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/15/2009
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/15/2015
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 01/29/2016
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/24/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/18/2004
Action: Notice of Violation - #20040318

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/24/2004
Action: Notice of Violation - #20040324

Global Id: T0608100216
Action Type: ENFORCEMENT

5TH AVE SERVICE (Continued) **S101325110**

Date: 07/18/2006
Action: Staff Letter - #20060718

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/30/2011
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/05/2015
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/02/2016
Action: Request for Closure - Regulator Responded

Global Id: T0608100216
Action Type: REMEDIATION
Date: 06/04/1990
Action: Excavation

Global Id: T0608100216
Action Type: REMEDIATION
Date: 07/01/1999
Action: Ex Situ Physical/Chemical Treatment (other than P&T, SVE, or Excavation)

Global Id: T0608100216
Action Type: REMEDIATION
Date: 05/04/1990
Action: Free Product Removal

Global Id: T0608100216
Action Type: REMEDIATION
Date: 04/25/2001
Action: Excavation

Global Id: T0608100216
Action Type: REMEDIATION
Date: 05/02/2001
Action: Pump & Treat (P&T) Groundwater

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330039
Facility Status: 8- Verification Monitoring Underway
Global ID: T0608100216
APN Number: 055086020
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

SWEEPS UST:
Status: Active

5TH AVE SERVICE (Continued) **S101325110**

Comp Number: 330115
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-13-94
Action Date: 04-13-94
Created Date: 10-13-88
Owner Tank Id: UNK
SWRCB Tank Id: 41-000-330115-000001
Tank Status: A
Capacity: 6000
Active Date: 04-13-94
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 3

Status: Active
Comp Number: 330115
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-13-94
Action Date: 04-13-94
Created Date: 10-13-88
Owner Tank Id: UNK
SWRCB Tank Id: 41-000-330115-000002
Tank Status: A
Capacity: 10000
Active Date: 04-13-94
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 330115
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-13-94
Action Date: 04-13-94
Created Date: 10-13-88
Owner Tank Id: UNK
SWRCB Tank Id: 41-000-330115-000003
Tank Status: A
Capacity: 10000
Active Date: 04-13-94
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0227

D28 **VALERO** **CA San Mateo Co. BI** **S113756361**
WSW **795 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1233 ft. **Site 12 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0057217
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0079391
Description:	GENERATES <27 GAL/YEAR
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0057217
Prog Element Code:	STORES MV FUELS OR WASTE ONLY
Record Id:	PR0079390
Description:	STORES MV FUELS OR WASTE ONLY
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0057217
Prog Element Code:	UNDERGROUND TANK - GENERAL
Record Id:	PR0079392
Description:	UNDERGROUND TANK - GENERAL
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0017350
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0044300
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0017350
Prog Element Code:	STORES MV FUELS OR WASTE ONLY
Record Id:	PR0024889
Description:	STORES MV FUELS OR WASTE ONLY
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0017350
Prog Element Code:	UNDERGROUND TANK - GENERAL
Record Id:	PR0022431
Description:	UNDERGROUND TANK - GENERAL
Facility Status:	INACTIVE

D29 **K & A PETROLEUM INC/ TRITON GASOLINE** **CA UST** **U004265019**
WSW **795 5TH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1233 ft. **Site 13 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

UST:

Facility ID:	Not reported
Permitting Agency:	San Mateo County Environmental Health
Latitude:	37.479855
Longitude:	-122.200035

D30 **FIFTH AVENUE SERVICE** **CA HIST UST** **U001594555**
WSW **795-FIFTH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1233 ft. **Site 14 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

HIST UST:

File Number:	0002C43B
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C43B.pdf
Region:	STATE
Facility ID:	00000017772
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MORRY ZASKI
Telephone:	4153661190
Owner Name:	VICTOR J. COROMBINI
Owner Address:	1224 SO. WINCHESTER BLVD.
Owner City,St,Zip:	SAN JOSE, CA 95128
Total Tanks:	0004
Tank Num:	001
Container Num:	2
Year Installed:	1975
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	002
Container Num:	1
Year Installed:	1975
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	003
Container Num:	3
Year Installed:	1975
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	004
Container Num:	4
Year Installed:	1955
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

D31 **5TH AVE SERVICE** **CA LUST** **U001594522**
WSW **795 5TH** **CA HIST UST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1233 ft. **Site 15 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Post remedial action monitoring
Case Number:	330039
How Discovered:	LT
Leak Cause:	Unknown
Leak Source:	Unknown
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:	12/31/2002

HIST UST:

File Number:	0002C0A1
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C0A1.pdf
Region:	STATE
Facility ID:	00000060687
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MORRY AZASKI
Telephone:	4153661190
Owner Name:	MORRY ZASKI
Owner Address:	795 5TH AVE
Owner City,St,Zip:	REDWOOD, CA 94063
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00010000

5TH AVE SERVICE (Continued) **U001594522**

Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

E32 **TRACE ANALYTICAL INC** **CA San Mateo Co. BI** **S106981579**
SSW **3517 EDISON** **N/A**
1/8-1/4 **MENLO PARK, CA 94025**
0.234 mi.
1233 ft. **Site 1 of 3 in cluster E**

Relative:
Higher

Actual:
24 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0022188
Prog Element Code:	STORES HAZ MAT <3,499GAL,27,999LB,13,999FT3
Record Id:	PR0023420
Description:	STORES HAZ MAT <3,499GAL,27,999LB,13,999CF
Facility Status:	INACTIVE
Region:	SAN MATEO
Facility ID:	FA0027951
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0045914
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE
Region:	SAN MATEO
Facility ID:	FA0045033
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0057558
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE
Region:	SAN MATEO
Facility ID:	FA0052120
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0072303
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE
Region:	SAN MATEO
Facility ID:	FA0052120
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0072302
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status:	INACTIVE

D33 **PORTABLE WATER SUPPLY** **CA San Mateo Co. BI** **S113756684**
WSW **3184 SPRING** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1234 ft. **Site 16 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0022227
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0023599
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

D34 **WELTER STENCIL & ENGRAVING** **CA San Mateo Co. BI** **S113755856**
WSW **793 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1237 ft. **Site 17 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0012787
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0011307
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

E35 **DIETER'S GERMAN CAR REPIAR** **CA San Mateo Co. BI** **S102268247**
SSW **3511 EDISON WAY** **CA HAZNET** **N/A**
1/8-1/4 **MENLO PARK, CA 94025**
0.237 mi.
1253 ft. **Site 2 of 3 in cluster E**

Relative:
Higher

Actual:
24 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0017622
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0023057
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017622
Prog Element Code: LESS THAN 500 TIRES
Record Id: PR0045422
Description: LESS THAN 500 TIRES
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017622
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0023058
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF
Facility Status: INACTIVE

HAZNET:
envid: S102268247

DIETER'S GERMAN CAR REPIAR (Continued) **S102268247**

Year:	2013
GEPAID:	CAL000160805
Contact:	LEWIS CAMPBELL
Telephone:	6503650432
Mailing Name:	Not reported
Mailing Address:	3511 EDISON WAY
Mailing City,St,Zip:	MENLO PARK, CA 940251815
Gen County:	San Mateo
TSD EPA ID:	CAT080012602
TSD County:	Solano
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.5004
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

E36 **JOHN ZENDER CONSULTING** **CA San Mateo Co. BI** **S106981720**
SSW **3507 EDISON** **N/A**
1/8-1/4 **MENLO PARK, CA 94025**
0.241 mi.
1274 ft. **Site 3 of 3 in cluster E**

Relative:
Higher

Actual:
24 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0023127
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0026385
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0052771
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0074531
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0052771
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0074436
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status:	INACTIVE

D37 **REMCO ENTERPRISES INC** **CA San Mateo Co. BI** **S113756377**
WSW **3160 SPRING** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.246 mi.
1298 ft. **Site 18 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0017379
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT

REMCO ENTERPRISES INC (Continued) **S113756377**

Record Id: PR0011064
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017379
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0003897
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

C38 **ICE OASIS** **CA San Mateo Co. BI** **S113757471**
West **3140 BAY** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.246 mi.
1300 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
14 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0026254
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0037888
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0026254
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0043332
Description: GENERATES <27 GAL/YEAR
Facility Status: INACTIVE

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39 **EDISON TECHNOLOGY PARK** **CA LUST** **S118504667**
SSW **3477-3522 EDISON WAY** **CA SLIC** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.261 mi.
1380 ft.

Relative:
Higher

Actual:
24 ft.

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 449093
Facility Status: 3B- Preliminary Assessment Underway
Global ID: T10000006237
APN Number: Not reported
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

SLIC:
Region: STATE
Facility Status: **Open - Site Assessment**
Status Date: 09/26/2014
Global Id: T10000006237
Lead Agency: SAN MATEO COUNTY LOP
Lead Agency Case Number: 449093
Latitude: 37.4771379
Longitude: -122.194453

EDISON TECHNOLOGY PARK (Continued) **S118504667**

Case Type:	Cleanup Program Site
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Other Insecticides / Pesticide / Fumigants / Herbicides, Copper, Lead, Total Petroleum Hydrocarbons (TPH)
Site History:	Soil borings were advanced onsite and results of soil and groundwater samples reported per boring permits. Soil reported to be impacted by TPHd, TPHmo, Dieldrin, OCPs, Phenols and Metals, especially high levels of Lead. Groundwater impacted by TPHd, TPHmo and PCE. Investigation was completed prior to site being transitioned to use for international school. Based on the results, the school will not be located at this site.

Click here to access the California GeoTracker records for this facility:

40
West
1/4-1/2
0.331 mi.
1747 ft.

Relative:
Higher

Actual:
15 ft.

GILLIS & LANE INC. **CA LUST S101303182**
830 2ND **CA HIST CORTESE N/A**
REDWOOD CITY, CA 94063

LUST:

Region:	STATE
Global Id:	T0608100234
Latitude:	37.481631
Longitude:	-122.201669
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/06/1999
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0246
LOC Case Number:	330010
File Location:	Local Agency Warehouse
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100234
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100234
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)

GILLIS & LANE INC. (Continued) **S101303182**

Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0608100234
Status: Completed - Case Closed
Status Date: 12/06/1999

Global Id: T0608100234
Status: Open - Case Begin Date
Status Date: 11/24/1986

Regulatory Activities:
Global Id: T0608100234
Action Type: Other
Date: 11/24/1986
Action: Leak Reported

Global Id: T0608100234
Action Type: ENFORCEMENT
Date: 09/28/1990
Action: Notice of Responsibility - #1

Global Id: T0608100234
Action Type: Other
Date: 12/19/1986
Action: Leak Discovery

Global Id: T0608100234
Action Type: REMEDIATION
Date: 06/18/1993
Action: Pump & Treat (P&T) Groundwater

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330010
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO

GILLIS & LANE INC. (Continued) **S101303182**

Facility ID: 330010
Facility Status: 9- Case Closed
Global ID: T0608100234
APN Number: 055081190 055081180
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0246

F41 **PIC** **CA LUST** **S104494089**
West **3004 SPRING** **CA HIST CORTESE** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.356 mi.
1879 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
17 ft.

LUST:
Region: STATE
Global Id: T0608100398
Latitude: 37.480742
Longitude: -122.202407
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 05/31/1996
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0418
LOC Case Number: 330032
File Location: Local Agency Warehouse
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100398
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100398
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

PIC (Continued) **S104494089**

Status History:
Global Id: T0608100398
Status: Completed - Case Closed
Status Date: 05/31/1996

Global Id: T0608100398
Status: Open - Case Begin Date
Status Date: 07/02/1987

Regulatory Activities:
Global Id: T0608100398
Action Type: Other
Date: 07/02/1987
Action: Leak Reported

Global Id: T0608100398
Action Type: Other
Date: 07/02/1987
Action: Leak Discovery

Global Id: T0608100398
Action Type: ENFORCEMENT
Date: 01/31/1989
Action: Notice of Responsibility - #1

Global Id: T0608100398
Action Type: REMEDIATION
Date: 12/15/1988
Action: Excavation

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330032
Facility Status: 9- Case Closed
Global ID: T0608100398
APN Number: 055084010
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0418

F42
West
1/4-1/2
0.356 mi.
1879 ft.

PIC
3004 SPRING
REDWOOD CITY, CA 94063
Site 2 of 2 in cluster F

CA LUST **S100178592**
CA AST **N/A**
CA Notify 65

Relative:
Higher

Actual:
17 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	330032
How Discovered:	OM
Leak Cause:	Unknown
Leak Source:	Unknown
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

AST:

Certified Unified Program Agencies:	Imperial
Owner:	DEPARTMENT OF PARKS AND REC.
Total Gallons:	3,000
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported

PIC (Continued) **S100178592**

Issue Date: Not reported
Incident Description: Not reported

G43 **KOBLICK SUPPLY** **CA LUST** **S103892840**
WNW **2950 BAY** **CA SWEEPS UST** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063** **CA HIST CORTESE**
0.379 mi.
2000 ft. **Site 1 of 4 in cluster G**

Relative:
Lower

Actual:
13 ft.

LUST:

Region:	STATE
Global Id:	T0608101035
Latitude:	37.4826
Longitude:	-122.20237
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/27/1990
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1126
LOC Case Number:	330038
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608101035
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608101035
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

Status History:

Global Id:	T0608101035
Status:	Completed - Case Closed
Status Date:	09/27/1990

Global Id:	T0608101035
Status:	Open - Case Begin Date
Status Date:	09/27/1990

KOBLICK SUPPLY (Continued) **S103892840**

Regulatory Activities:
Global Id: T0608101035
Action Type: ENFORCEMENT
Date: 09/27/1990
Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330038
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330038
Facility Status: 9- Case Closed
Global ID: T0608101035
APN Number: 054172050
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

SWEEPS UST:
Status: Not reported
Comp Number: 330137
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: 41-000-330137-000001
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 330137
Number: Not reported
Board Of Equalization: Not reported

KOBLICK SUPPLY (Continued) **S103892840**

Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	41-000-330137-000002
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1126

G44 **MR. HAUL** **CA SWF/LF** **S110326605**
West **867 SECOND AVENUE** **N/A**
1/4-1/2 **REDWOOD CITY, CA**
0.384 mi.
2025 ft. **Site 2 of 4 in cluster G**

Relative:
Higher

Actual:
14 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	41-AA-0181
Lat/Long:	37.48196 / -122.20109
Owner Name:	Gerritsen, Georgia
Owner Telephone:	4153440618
Owner Address:	Not reported
Owner Address2:	1229 Burlingame Ave, Apt 7
Owner City,St,Zip:	Burlingame, CA 94010
Operational Status:	Active
Operator:	Mr. Haul
Operator Phone:	4155937138
Operator Address:	Not reported
Operator Address2:	1383 Rosewood Avenue
Operator City,St,Zip:	San Carlos, CA
Permit Date:	09/27/1996
Permit Status:	Notification
Permitted Acreage:	Not reported
Activity:	Small Vol CDI Debris Proc. Operation
Regulation Status:	Notification
Landuse Name:	Not reported
GIS Source:	Map
Category:	Transfer/Processing
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	41-AA-0181
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported

MR. HAUL (Continued) **S110326605**

Permitted Throughput with Units: Not reported
Actual Throughput with Units: Not reported
Permitted Capacity with Units: Not reported
Remaining Capacity: Not reported
Remaining Capacity with Units: Not reported
Lat/Long: 37.48196 / -122.20109

G45 **PACIFIC BELL** **RCRA-SQG** **1000251284**
West **867 2ND AVENUE** **CA LUST** **CAT080021231**
1/4-1/2 **REDWOOD CITY, CA 94063** **CA HIST UST**
0.384 mi. **FINDS**
2025 ft. **Site 3 of 4 in cluster G** **ECHO**
CA HIST CORTESE

Relative:
Higher

Actual:
14 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: PACIFIC BELL
Facility address: 867 2ND AVENUE
REDWOOD CITY, CA 94063
EPA ID: CAT080021231
Mailing address: 2 NORTH SECOND ST ROOM 1125
SAN JOSE, CA 95113
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: THE PACIFIC TELEPHONE AND TELEGRAPH CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
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
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

PACIFIC BELL (Continued) **1000251284**

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: 01/19/1981
- Site name: PACIFIC BELL
- Classification: Large Quantity Generator

Violation Status: No violations found

LUST:
- Region: STATE
- Global Id: T0608100379
- Latitude: 37.482027
- Longitude: -122.200016
- Case Type: LUST Cleanup Site
- Status: Completed - Case Closed
- Status Date: 03/22/2001
- Lead Agency: SAN MATEO COUNTY LOP
- Case Worker: DGM
- Local Agency: SAN MATEO COUNTY LOP
- RB Case Number: 41-0398
- LOC Case Number: 330011
- File Location: Local Agency
- Potential Media Affect: Other Groundwater (uses other than drinking water)
- Potential Contaminants of Concern: Gasoline
- Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
- Global Id: T0608100379
- Contact Type: Local Agency Caseworker
- Contact Name: DENO MILANO
- Organization Name: SAN MATEO COUNTY LOP
- Address: 2000 ALAMEDA DE LAS PULGAS
- City: SAN MATEO
- Email: dmilano@smcgov.org
- Phone Number: 6503726292

- Global Id: T0608100379
- Contact Type: Regional Board Caseworker
- Contact Name: Regional Water Board

PACIFIC BELL (Continued) **1000251284**

Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0608100379
Status: Completed - Case Closed
Status Date: 03/22/2001

Global Id: T0608100379
Status: Open - Case Begin Date
Status Date: 12/01/1986

Regulatory Activities:
Global Id: T0608100379
Action Type: Other
Date: 12/01/1986
Action: Leak Reported

Global Id: T0608100379
Action Type: ENFORCEMENT
Date: 06/08/1990
Action: Notice of Responsibility - #1

Global Id: T0608100379
Action Type: Other
Date: 12/01/1986
Action: Leak Discovery

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330011
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330011
Facility Status: 9- Case Closed
Global ID: T0608100379
APN Number: 054172180

PACIFIC BELL (Continued) **1000251284**

Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000016342
Facility Type: Other
Other Type: PHONE CO
Contact Name: E.J. KOEHLER
Telephone: 4155426758
Owner Name: PACIFIC BELL
Owner Address: 370 THIRD STREET
Owner City,St,Zip: SAN FRANCISCO, CA 94107
Total Tanks: 0001

Tank Num: 001
Container Num: G-81-10K
Year Installed: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: None

FINDS:

Registry ID: 110002949837

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.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000251284
Registry ID: 110002949837
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002949837

HIST CORTESE:

PACIFIC BELL (Continued) **1000251284**

Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0398

H46 **MENLO PARK FIRE DISTRICT** **CA San Mateo Co. BI** **S103658093**
SSE **4101 FAIR OAKS** **CA HIST CORTESE** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.388 mi.
2050 ft. **Site 1 of 2 in cluster H**

Relative:
Higher

Actual:
26 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0024993
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0074289
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0024993
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0031874
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-1091

H47 **MENLO PARK FIRE DIST #5** **CA LUST** **S103879301**
SSE **4101 FAIR OAKS** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.389 mi.
2052 ft. **Site 2 of 2 in cluster H**

Relative:
Higher

Actual:
27 ft.

LUST:
Region: STATE
Global Id: T0608101001
Latitude: 37.4808
Longitude: -122.2092
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/12/1998
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-1091
LOC Case Number: 330155
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Not reported
Site History: Not reported

MENLO PARK FIRE DIST #5 (Continued) **S103879301**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608101001
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608101001
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

Status History:

Global Id:	T0608101001
Status:	Completed - Case Closed
Status Date:	06/12/1998

Global Id:	T0608101001
Status:	Open - Case Begin Date
Status Date:	04/09/1998

Regulatory Activities:

Global Id:	T0608101001
Action Type:	ENFORCEMENT
Date:	04/24/1998
Action:	Notice of Responsibility - #1

Global Id:	T0608101001
Action Type:	Other
Date:	04/09/1998
Action:	Leak Reported

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	330155
How Discovered:	OM
Leak Cause:	Unknown
Leak Source:	Unknown
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

MENLO PARK FIRE DIST #5 (Continued) **S103879301**

Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330155
Facility Status: 9- Case Closed
Global ID: T0608101001
APN Number: 060133130
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

48
ESE
1/4-1/2
0.392 mi.
2068 ft.

FORMER GAS STATION
955 MARSH ROAD
REDWOOD CITY, CA 92257

CA Notify 65 **S100178996**
N/A

Relative:
Higher

Actual:
24 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

49
NW
1/4-1/2
0.398 mi.
2099 ft.

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION
1228 DOUGLAS AVE
REDWOOD CITY, CA 94063

RCRA-SQG **1000225598**
CA LUST **CAD009129073**
CA SLIC
FINDS
ECHO
CA EMI
CA HIST CORTESE
NY MANIFEST

Relative:
Lower

Actual:
10 ft.

RCRA-SQG:
Date form received by agency: 07/23/2008
Facility name: AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION
Facility address: 1228 DOUGLAS AVE
REDWOOD CITY, CA 94063
EPA ID: CAD009129073
Contact: LOUIS B GILMORE
Contact address: 1228 DOUGLAS AVE
REDWOOD CITY, CA 94063
Contact country: US
Contact telephone: 650-367-2258
Contact email: LOU_GILMORE@AMPEX.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

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: STANFORD UNIVERSITY
Owner/operator address: 2755 SAND HILL RD STE 100
MENLO PARK, CA 94025
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 09/27/2005
Owner/Op end date: Not reported

Owner/operator name: AMPEX DATA SYSTEMS CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1947
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: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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: AMPEX CORP
Classification: Small Quantity Generator

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Date form received by agency: 02/28/1996
Site name: AMPEX CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 03/03/1992
Site name: AMPEX CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 08/15/1980
Site name: AMPEX CORP
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/25/1986
Date achieved compliance: 03/07/1986
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/07/1986
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 - General
Date violation determined: 03/22/1985
Date achieved compliance: 03/07/1986
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

Evaluation Action Summary:
Evaluation date: 02/25/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/07/1986
Evaluation lead agency: State

Evaluation date: 03/22/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/07/1986
Evaluation lead agency: State Contractor/Grantee

LUST:
Region: STATE
Global Id: T0608101042

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Latitude:	37.4850065
Longitude:	-122.2014889
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/31/1995
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	UUU
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1134
LOC Case Number:	339001
File Location:	Not reported
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	* Solvents
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608101042
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608101042
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

Status History:

Global Id:	T0608101042
Status:	Completed - Case Closed
Status Date:	12/31/1995

Global Id:	T0608101042
Status:	Open - Case Begin Date
Status Date:	10/18/1995

Regulatory Activities:

Global Id:	T0608101042
Action Type:	Other
Date:	10/18/1995
Action:	Leak Discovery

Global Id:	T0608101042
Action Type:	Other
Date:	10/18/1995
Action:	Leak Reported

Global Id:	T0608101042

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Action Type: Other
Date: 10/18/1995
Action: Leak Stopped

LUST REG 2:
Region: 2
Facility Id: 41-0691
Facility Status: Case Closed
Case Number: 330013
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

Region: 2
Facility Id: 41-1134
Facility Status: Case Closed
Case Number: 339001
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

SLIC:
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 03/03/2017
Global Id: T0608100657
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: 330013
Latitude: 37.4850065
Longitude: -122.2014889
Case Type: Cleanup Program Site
Case Worker: RL
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0691
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: * Solvents
Site History: The site is currently under investigation in light of the proposed use of the site as Stanford’s Redwood City campus.

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Click here to access the California GeoTracker records for this facility:

FINDS:

Registry ID: 110064296694

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: 110022302202

Environmental Interest/Information System
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000225598
Registry ID:	110064296694
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110064296694

EMI:

Year:	1987
County Code:	41
Air Basin:	SF
Facility ID:	291
Air District Name:	BA
SIC Code:	3679
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:	11
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	3
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:	41
Air Basin:	SF
Facility ID:	8142
Air District Name:	BA

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

SIC Code:	3671
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:	12
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-0691

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1134

NY MANIFEST:

Country:	USA
EPA ID:	CAD009129073
Facility Status:	Not reported
Location Address 1:	401 BROADWAY
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	REDWOOD CITY
Location State:	CA
Location Zip:	94063
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	CAD009129073
Mailing Name:	AMPEX
Mailing Contact:	AMPEX
Mailing Address 1:	401 BROADWAY
Mailing Address 2:	Not reported
Mailing City:	REDWOOD CITY
Mailing State:	CA
Mailing Zip:	94063
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	4153672258

NY MANIFEST:

Document ID:	NYB4164597
Manifest Status:	C
seq:	Not reported
Year:	1994
Trans1 State ID:	10742PNY
Trans2 State ID:	Not reported

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Generator Ship Date:	07/12/1994
Trans1 Recv Date:	07/12/1994
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/27/1994
Part A Recv Date:	/ /
Part B Recv Date:	08/05/1994
Generator EPA ID:	CAD009129073
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported
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:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00001
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

Document ID:	NYA3199645
Manifest Status:	K
seq:	Not reported
Year:	1986
Trans1 State ID:	68008
Trans2 State ID:	X17593NY
Generator Ship Date:	09/08/1986
Trans1 Recv Date:	09/08/1986
Trans2 Recv Date:	09/17/1986
TSD Site Recv Date:	09/26/1986
Part A Recv Date:	11/13/1986
Part B Recv Date:	10/02/1986
Generator EPA ID:	CAD009129073
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

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:	D002 - NON-LISTED CORROSIVE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00010
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100

Document ID:	NYB4164606
Manifest Status:	K
seq:	Not reported
Year:	1994
Trans1 State ID:	11592PNY
Trans2 State ID:	Not reported
Generator Ship Date:	05/06/1994
Trans1 Recv Date:	05/06/1994
Trans2 Recv Date:	/ /
TSD Site Recv Date:	05/19/1994
Part A Recv Date:	/ /
Part B Recv Date:	06/07/1994
Generator EPA ID:	CAD009129073
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported
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:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00001

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00001
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

G50 **MEWES PROPERTY** **CA LUST** **S104568283**
WNW **2906 BAY** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.417 mi.
2203 ft. **Site 4 of 4 in cluster G**

Relative:
Lower

Actual:
13 ft.

LUST:

Region:	STATE
Global Id:	T0608123266
Latitude:	37.483155
Longitude:	-122.202953
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	03/20/2000
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-4020
LOC Case Number:	330182
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608123266
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608123266
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)

MEWES PROPERTY (Continued) **S104568283**

Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0608123266
Status: Completed - Case Closed
Status Date: 03/20/2000

Global Id: T0608123266
Status: Open - Case Begin Date
Status Date: 10/14/1999

Regulatory Activities:
Global Id: T0608123266
Action Type: ENFORCEMENT
Date: 11/02/1999
Action: Notice of Responsibility - #1

Global Id: T0608123266
Action Type: Other
Date: 10/14/1999
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330182
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330182
Facility Status: 9- Case Closed
Global ID: T0608123266
APN Number: Not reported
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

I51 **SEQUOIA MILL** **CA LUST** **S103892866**
NNW **2575 EAST BAYSHORE ROAD** **CA HIST CORTESE** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.421 mi.
2224 ft. **Site 1 of 2 in cluster I**

Relative:
Lower

Actual:
8 ft.

LUST:

Region:	STATE
Global Id:	T0608100682
Latitude:	37.487555
Longitude:	-122.199073
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/19/1994
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0719
LOC Case Number:	330063
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100682
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100682
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

Status History:

Global Id:	T0608100682
Status:	Completed - Case Closed
Status Date:	09/19/1994

Global Id:	T0608100682
Status:	Open - Case Begin Date
Status Date:	06/12/1989

Regulatory Activities:

Global Id:	T0608100682
Action Type:	Other
Date:	06/12/1989
Action:	Leak Reported

SEQUOIA MILL (Continued) **S103892866**

Global Id: T0608100682
Action Type: ENFORCEMENT
Date: 10/05/1990
Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330063
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0719

I52 **SEQUOIA MILL** **CA LUST** **U001594604**
NNW **2575 E BAYSHORE RD** **CA HIST UST** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.421 mi.
2224 ft. **Site 2 of 2 in cluster I**

Relative:
Lower

Actual:
8 ft.

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330063
Facility Status: 9- Case Closed
Global ID: T0608100682
APN Number: 054131050
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST UST:
File Number: 0002C26C
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C26C.pdf
Region: STATE
Facility ID: 00000008802
Facility Type: Other
Other Type: WOODWORKING
Contact Name: Not reported
Telephone: 4153654666
Owner Name: SEQUOIA MILL
Owner Address: 2575 E. BAYSHORE RD
Owner City,St,Zip: REDWOOD CITY, CA 94063

SEQUOIA MILL (Continued) **U001594604**

Total Tanks: 0001

Tank Num: 001
Container Num: #001
Year Installed: 1974
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 3/8
Leak Detection: Visual, Sensor Instrument, Pressure Test

Click here for Geo Tracker PDF:

J53 **DELUCA FOODS** **CA LUST S101438169**
West **832 BARRON** **CA HIST CORTESE N/A**
1/4-1/2 **REDWOOD CITY, CA 94061**
0.432 mi.
2283 ft. **Site 1 of 2 in cluster J**

Relative:
Higher

Actual:
15 ft.

LUST:
Region: STATE
Global Id: T0608100183
Latitude: 37.482107
Longitude: -122.203301
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/28/1999
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0192
LOC Case Number: 330088
File Location: Local Agency Warehouse
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100183
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100183
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

DELUCA FOODS (Continued) **S101438169**

Status History:
Global Id: T0608100183
Status: Completed - Case Closed
Status Date: 07/28/1999

Global Id: T0608100183
Status: Open - Case Begin Date
Status Date: 04/02/1990

Regulatory Activities:
Global Id: T0608100183
Action Type: Other
Date: 06/11/1990
Action: Leak Discovery

Global Id: T0608100183
Action Type: ENFORCEMENT
Date: 06/20/1991
Action: Notice of Responsibility - #1

Global Id: T0608100183
Action Type: Other
Date: 04/02/1990
Action: Leak Reported

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330088
Facility Status: 9- Case Closed
Global ID: T0608100183
APN Number: 054172100
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0192

J54 **R A DE LUCA** **CA LUST** **S104493944**
West **832 BARRON AVE** **CA SWEEPS UST** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.432 mi.
2283 ft. **Site 2 of 2 in cluster J**

Relative:
Higher

Actual:
15 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330088
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
Date Leak Confirmed: Not reported

R A DE LUCA (Continued) **S104493944**

Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 330019
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: 41-000-330019-000001
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 1

Status: Active
Comp Number: 330019
Number: 9
Board Of Equalization: Not reported
Referral Date: 11-03-93
Action Date: 11-03-93
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

K55 **DELUCCHI PROPERTY** **CA LUST** **S101308677**
ESE **995 MARSH** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.440 mi.
2321 ft. **Site 1 of 6 in cluster K**

Relative:
Higher

Actual:
23 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330050
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown

DELUCCHI PROPERTY (Continued) **S101308677**

Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 1/1/1965
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

K56 **DELUCCHI PROPERTY** **CA LUST S103893021**
ESE **995 MARSH ROAD** **CA HIST CORTESE N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.440 mi.
2321 ft. **Site 2 of 6 in cluster K**

Relative:
Higher

Actual:
23 ft.

LUST:
Region: STATE
Global Id: T0608100186
Latitude: 37.478489
Longitude: -122.186146
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/08/2003
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0195
LOC Case Number: 330050
File Location: Local Agency Warehouse
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100186
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100186
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

Status History:
Global Id: T0608100186
Status: Completed - Case Closed
Status Date: 04/08/2003

DELUCCHI PROPERTY (Continued) **S103893021**

Global Id: T0608100186
Status: Open - Case Begin Date
Status Date: 03/24/1989

Global Id: T0608100186
Status: Open - Site Assessment
Status Date: 03/24/1989

Regulatory Activities:
Global Id: T0608100186
Action Type: Other
Date: 03/27/1989
Action: Leak Discovery

Global Id: T0608100186
Action Type: ENFORCEMENT
Date: 03/24/1989
Action: Notice of Responsibility - #1

Global Id: T0608100186
Action Type: ENFORCEMENT
Date: 04/08/2003
Action: Closure/No Further Action Letter - #2

Global Id: T0608100186
Action Type: Other
Date: 03/27/1989
Action: Leak Reported

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330050
Facility Status: 9- Case Closed
Global ID: T0608100186
APN Number: 055215150
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0195

---

57 **MIDLAND PACIFIC CORP** **CA LUST** **S101308622**
NE **3536 HAVEN** **CA HIST CORTESE** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.447 mi.
2359 ft.

Relative:
Lower

Actual:
12 ft.

LUST:
Region: STATE
Global Id: T0608100330
Latitude: 37.486
Longitude: -122.1865

MIDLAND PACIFIC CORP (Continued) **S101308622**

Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/24/1995
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0345
LOC Case Number:	440031
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100330
Contact Type:	Local Agency Caseworker
Contact Name:	MARC MULLANEY
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	mmullaney@smcgov.org
Phone Number:	6503726289

Global Id:	T0608100330
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

Status History:

Global Id:	T0608100330
Status:	Completed - Case Closed
Status Date:	10/24/1995

Global Id:	T0608100330
Status:	Open - Case Begin Date
Status Date:	08/08/1990

Regulatory Activities:

Global Id:	T0608100330
Action Type:	Other
Date:	08/08/1990
Action:	Leak Reported

Global Id:	T0608100330
Action Type:	Other
Date:	05/21/1992
Action:	Leak Discovery

Global Id:	T0608100330
Action Type:	ENFORCEMENT
Date:	10/10/1990

MIDLAND PACIFIC CORP (Continued) **S101308622**

Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 440031
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 440031
Facility Status: 9- Case Closed
Global ID: T0608100330
APN Number: 055122340
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0345

---

58 **SEARS MERCHANDISE GROUP** **CA LUST** **S104493985**
NW **1325 DOUGLAS** **CA HIST CORTESE** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.449 mi.
2371 ft.

Relative:
Lower

Actual:
9 ft.

LUST:
Region: STATE
Global Id: T0608100843
Latitude: 37.4868709
Longitude: -122.2058476
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/07/1995
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0915
LOC Case Number: 330131
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)

SEARS MERCHANDISE GROUP (Continued) **S104493985**

Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100843
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100843
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

Status History:
Global Id: T0608100843
Status: Completed - Case Closed
Status Date: 12/07/1995

Global Id: T0608100843
Status: Open - Case Begin Date
Status Date: 05/12/1995

Regulatory Activities:
Global Id: T0608100843
Action Type: Other
Date: 05/12/1995
Action: Leak Discovery

Global Id: T0608100843
Action Type: Other
Date: 05/12/1995
Action: Leak Reported

Global Id: T0608100843
Action Type: ENFORCEMENT
Date: 05/18/1995
Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330131
How Discovered: OM

SEARS MERCHANDISE GROUP (Continued) **S104493985**

Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330131
Facility Status: 9- Case Closed
Global ID: T0608100843
APN Number: 054133190
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0915

---

59 **REDWOOD MOTOR COURT** **CA LUST** **S104973101**
ENE **3706 ROLISON ROAD** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.467 mi.
2467 ft.

Relative:
Lower

Actual:
13 ft.

LUST:
Region: STATE
Global Id: T0608114600
Latitude: 37.484315
Longitude: -122.185691
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/20/2012
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-4021
LOC Case Number: 330187
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Lead, Gasoline
Site History: Can be extracted from most recent report in Geotracker or at San Mateo County offices if submitted prior to 2005, San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report.

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608114600

REDWOOD MOTOR COURT (Continued) **S104973101**

Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608114600
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

Status History:
Global Id: T0608114600
Status: Completed - Case Closed
Status Date: 01/20/2012

Global Id: T0608114600
Status: Open - Case Begin Date
Status Date: 06/08/2000

Global Id: T0608114600
Status: Open - Site Assessment
Status Date: 06/08/2000

Regulatory Activities:
Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 08/04/2009
Action: Staff Letter - #20090804

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 08/31/2010
Action: Notice of Violation - #20100831

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 06/22/2009
Action: Staff Letter - #20090622

Global Id: T0608114600
Action Type: RESPONSE
Date: 12/31/2009
Action: Site Assessment Report

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 08/21/2008
Action: Notice of Violation - #20080821

REDWOOD MOTOR COURT (Continued) **S104973101**

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 01/28/2002
Action: Staff Letter - #20020128

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 08/13/2007
Action: Staff Letter - #20070813

Global Id: T0608114600
Action Type: Other
Date: 07/17/2000
Action: Leak Reported

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 07/31/2001
Action: Staff Letter - #20010731

Global Id: T0608114600
Action Type: RESPONSE
Date: 03/14/2002
Action: Other Report / Document

Global Id: T0608114600
Action Type: RESPONSE
Date: 12/12/2007
Action: Soil and Water Investigation Workplan

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 11/16/2010
Action: Notice of Violation - #20101116

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 06/07/2001
Action: Notice of Responsibility - #20010607

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 05/22/2008
Action: Notice of Violation - #20080522

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 12/13/2011
Action: File Review - Closure - #20111213

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 01/20/2012
Action: Closure/No Further Action Letter - #20120120

Global Id: T0608114600
Action Type: RESPONSE

REDWOOD MOTOR COURT (Continued) **S104973101**

Date: 11/27/2001
Action: Soil and Water Investigation Report

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Post remedial action monitoring
Case Number: 330187
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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: 1/1/1965

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330187
Facility Status: 9- Case Closed
Global ID: T0608114600
APN Number: 055161350
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

K60 **CHEVRON** **CA LUST** **S100622903**
ESE **3805 BOHANNON** **CA SWEEPS UST** **N/A**
1/4-1/2 **MENLO PARK, CA 94025** **CA San Mateo Co. BI**
0.469 mi. **CA HIST CORTESE**
2476 ft. **Site 3 of 6 in cluster K**

Relative:
Higher

Actual:
22 ft.

LUST:
Region: STATE
Global Id: T0608100997
Latitude: 37.4787563
Longitude: -122.1854144
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/15/2004
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: MM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-1086
LOC Case Number: 440052
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

CHEVRON (Continued) **S100622903**

Global Id: T0608100997
Contact Type: Local Agency Caseworker
Contact Name: MARC MULLANEY
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: mmullaney@smcgov.org
Phone Number: 6503726289

Global Id: T0608100997
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

Status History:
Global Id: T0608100997
Status: Completed - Case Closed
Status Date: 06/15/2004

Global Id: T0608100997
Status: Open - Case Begin Date
Status Date: 03/31/1998

Global Id: T0608100997
Status: Open - Site Assessment
Status Date: 03/31/1998

Global Id: T0608100997
Status: Open - Verification Monitoring
Status Date: 02/19/2004

Regulatory Activities:
Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 06/26/2001
Action: Staff Letter - #20010626

Global Id: T0608100997
Action Type: RESPONSE
Date: 05/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0608100997
Action Type: RESPONSE
Date: 11/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0608100997
Action Type: RESPONSE
Date: 05/15/2003
Action: Monitoring Report - Quarterly

CHEVRON (Continued) **S100622903**

Global Id: T0608100997
Action Type: RESPONSE
Date: 08/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0608100997
Action Type: RESPONSE
Date: 02/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0608100997
Action Type: RESPONSE
Date: 12/15/2003
Action: Other Report / Document

Global Id: T0608100997
Action Type: RESPONSE
Date: 02/15/2004
Action: Soil and Water Investigation Report

Global Id: T0608100997
Action Type: RESPONSE
Date: 08/30/2004
Action: Unknown

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 12/04/2002
Action: Staff Letter - #20021204

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 06/15/2004
Action: Closure/No Further Action Letter - #20040615

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 04/06/1998
Action: Notice of Responsibility - #1

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 04/14/2004
Action: Staff Letter - #20040414

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 10/02/2003
Action: Staff Letter - #20031002

Global Id: T0608100997
Action Type: Other
Date: 03/31/1998
Action: Leak Reported

CHEVRON (Continued) **S100622903**

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 440052
Facility Status: 9- Case Closed
Global ID: T0608100997
APN Number: 055251340, 055251280
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

SWEEPS UST:
Status: Active
Comp Number: 440019
Number: 1
Board Of Equalization: 44-025353
Referral Date: 01-28-94
Action Date: 01-28-94
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-440019-000001
Tank Status: A
Capacity: 10000
Active Date: 05-18-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: Active
Comp Number: 440019
Number: 1
Board Of Equalization: 44-025353
Referral Date: 01-28-94
Action Date: 01-28-94
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-440019-000002
Tank Status: A
Capacity: 10000
Active Date: 05-18-93
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 440019
Number: 1
Board Of Equalization: 44-025353
Referral Date: 01-28-94
Action Date: 01-28-94
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-440019-000003
Tank Status: A
Capacity: 10000
Active Date: 05-18-93

CHEVRON (Continued) **S100622903**

Tank Use: M.V. FUEL
STG: P
Content: PLUS UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 440019
Number: 1
Board Of Equalization: 44-025353
Referral Date: 01-28-94
Action Date: 01-28-94
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-440019-000004
Tank Status: A
Capacity: 10000
Active Date: 05-18-93
Tank Use: OIL
STG: W
Content: LEADED GASOL
Number Of Tanks: Not reported

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0014486
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0024903
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0014486
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0024904
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017570
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0028311
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017570
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0004102
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017570
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0025278
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

CHEVRON (Continued) **S100622903**

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-1086

K61 **CHEVRON 9-0754** **CA LUST** **S105030502**
ESE **3805 BOHANNON** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.473 mi.
2495 ft. **Site 4 of 6 in cluster K**

Relative:
Higher

Actual:
22 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 440052
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 1/1/1965
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: 2/19/2004

K62 **BOHANNON PARK** **CA LUST** **S104493817**
ESE **990 MARSH** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.474 mi.
2501 ft. **Site 5 of 6 in cluster K**

Relative:
Higher

Actual:
23 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 440034
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

K63 **DELTA AUTO REPAIR** **CA LUST** **S101324963**
ESE **990 MARSH** **CA San Mateo Co. BI** **N/A**
1/4-1/2 **MENLO PARK, CA 94025** **CA HIST CORTESE**
0.474 mi.
2501 ft. **Site 6 of 6 in cluster K**

Relative:
Higher

Actual:
23 ft.

LUST:

Region:	STATE
Global Id:	T0608100075
Latitude:	37.477756
Longitude:	-122.184454
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/10/1994
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0080
LOC Case Number:	440034
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100075
Contact Type:	Local Agency Caseworker
Contact Name:	MARC MULLANEY
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	mmullaney@smcgov.org
Phone Number:	6503726289

Global Id:	T0608100075
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

Status History:

Global Id:	T0608100075
Status:	Completed - Case Closed
Status Date:	02/10/1994

Global Id:	T0608100075
Status:	Open - Case Begin Date
Status Date:	07/25/1990

Regulatory Activities:

Global Id:	T0608100075
Action Type:	Other
Date:	07/25/1990
Action:	Leak Discovery

DELTA AUTO REPAIR (Continued) **S101324963**

Global Id: T0608100075
Action Type: ENFORCEMENT
Date: 06/11/1991
Action: Notice of Responsibility - #1

Global Id: T0608100075
Action Type: Other
Date: 07/25/1990
Action: Leak Reported

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 440034
Facility Status: 9- Case Closed
Global ID: T0608100075
APN Number: 055252070
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0001882
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0011480
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0001882
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0004162
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: INACTIVE

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0080

L64 **GENERAL CIRCUITS INC.** **SEMS-ARCHIVE** **1000214027**
NE **3549 J HAVEN AVENUE** **CORRACTS** **CAD074665704**
1/4-1/2 **MENLO PARK, CA 94025** **RCRA-TSDF**
0.482 mi. **RCRA-SQG**
2543 ft. **Site 1 of 3 in cluster L** **CA ENVIROSTOR**
FINDS
Relative: **ECHO**
Lower **CA HWP**

Actual: **12 ft.**

SEMS-ARCHIVE:
Site ID: 903283
EPA ID: CAD074665704
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

GENERAL CIRCUITS INC. (Continued) **1000214027**

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0903283
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13287621.00000
Person ID: 13003854.00000

Contact Sequence ID: 13293216.00000
Person ID: 13003858.00000

Contact Sequence ID: 13299074.00000
Person ID: 13004003.00000

Program Priority:
Description: RCRA Deferral - New Decision

CERCLIS-NFRAP Assessment History:
Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/23/96
Priority Level: Not reported

Action: DISCOVERY
Date Started: / /
Date Completed: 08/24/90
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 03/28/91
Priority Level: Deferred to RCRA (Subtitle C)

CORRACTS:

EPA ID: CAD074665704
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910328
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 09/01/1996
Facility name: GENERAL CIRCUITS INC.
Facility address: 3549 J HAVEN AVENUE
MENLO PARK, CA 94025
EPA ID: CAD074665704

GENERAL CIRCUITS INC. (Continued) **1000214027**

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: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: GENERAL CIRCUITS, INC.
Owner/operator address: 3549 J HAVEN AVENUE
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 364-7717
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: HAVEN ASSOCIATES
Owner/operator address: 100 HARBOR BLVD
BELMONT, CA 94002
Owner/operator country: Not reported
Owner/operator telephone: (415) 592-0933
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: 11/17/1980
Site name: GENERAL CIRCUITS INC.
Classification: Large Quantity Generator

GENERAL CIRCUITS INC. (Continued) **1000214027**

Corrective Action Summary:
Event date: 01/01/1990
Event: CA029ST

Event date: 03/28/1991
Event: CA074LO

Event date: 03/28/1991
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 03/28/1991
Event: CA049PA

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/01/1989
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/08/1989
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: Generators - General
Date violation determined: 05/01/1989
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 07/22/1992
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: Generators - General
Date violation determined: 05/01/1989
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 06/08/1989
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

GENERAL CIRCUITS INC. (Continued) **1000214027**

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/01/1989
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 10/02/1989
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: Generators - General
Date violation determined: 05/05/1987
Date achieved compliance: 07/22/1992
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: 05/05/1987
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/18/1987
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: Generators - General
Date violation determined: 04/12/1984
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/12/1984
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

GENERAL CIRCUITS INC. (Continued) **1000214027**

Evaluation Action Summary:
Evaluation date: 05/16/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/01/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/22/1992
Evaluation lead agency: State

Evaluation date: 09/02/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/05/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/22/1992
Evaluation lead agency: State

Evaluation date: 04/12/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/22/1992
Evaluation lead agency: State

ENVIROSTOR:
Facility ID: 80001670
Status: Refer: EPA
Status Date: 01/01/2008
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: US EPA
Lead Agency: S EP
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: 37.48725
Longitude: -122.1885
APN: 055130310
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED

GENERAL CIRCUITS INC. (Continued) **1000214027**

Potential Description: NONE SPECIFIED
Alias Name: 055130310
Alias Type: APN
Alias Name: CAD074665704
Alias Type: EPA Identification Number
Alias Name: 110000609805
Alias Type: EPA (FRS #)
Alias Name: 80001670
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: 03/28/1991
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

FINDS:

Registry ID: 110000609805

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: 1000214027
Registry ID: 110000609805
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110000609805

HWP:
EPA Id: CAD074665704
Cleanup Status: PROTECTIVE FILER
Latitude: 37.48596
Longitude: -122.1876
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported

GENERAL CIRCUITS INC. (Continued) **1000214027**

Supervisor: Not reported
Site Code: Not reported
Assembly District: 22
Senate District: 13
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:
EPA Id: CAD074665704
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKTRT1
Event Description: Protective Filer Status - PROTECTIVE FILER (APPROVED)
Actual Date: 11/07/1989

Alias:
EPA Id: CAD074665704
Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110000609805

M65 **CALTRANS DISTRICT 4** **RCRA-SQG 1000419501**
NW **2501 E BAYSHORE BLVD** **CA LUST CAD982028961**
1/4-1/2 **REDWOOD CITY, CA 94063** **FINDS**
0.488 mi. **ECHO**
2575 ft. **Site 1 of 3 in cluster M**

Relative:
Lower

Actual:
8 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: CALTRANS DISTRICT 4
Facility address: 2501 E BAYSHORE BLVD
REDWOOD CITY, CA 94063
EPA ID: CAD982028961
Mailing address: E BAYSHORE BLVD
REDWOOD CITY, CA 94063
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
Legal status: State
Owner/Operator Type: Operator

CALTRANS DISTRICT 4 (Continued) **1000419501**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CALIFORNIA DEPARTMENT OF TRANSPORTATION
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: State
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 339203
Facility Status: 9- Case Closed
Global ID: T0608197613
APN Number: 054131100
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

Region: SAN MATEO
Facility ID: 330147
Facility Status: 9- Case Closed
Global ID: T0608100923
APN Number: 054131100
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

FINDS:

Registry ID: 110002781945

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,

CALTRANS DISTRICT 4 (Continued) **1000419501**

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:	1000419501
Registry ID:	110002781945
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002781945

M66 **CALTRANS MAINTENANCE FACILITY** **CA LUST** **S103064831**
NW **2501 EAST BAYSHORE ROAD** **CA SLIC** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063** **CA HIST CORTESE**
0.488 mi.
2575 ft. **Site 2 of 3 in cluster M**

Relative:
Lower

Actual:
8 ft.

LUST:

Region:	STATE
Global Id:	T0608100923
Latitude:	37.487580045
Longitude:	-122.199651549
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/30/2006
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1009
LOC Case Number:	330147
File Location:	Local Agency Warehouse
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100923
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100923
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

CALTRANS MAINTENANCE FACILITY (Continued) **S103064831**

Status History:

Global Id:	T0608100923
Status:	Completed - Case Closed
Status Date:	01/30/2006
Global Id:	T0608100923
Status:	Open - Case Begin Date
Status Date:	06/05/1996
Global Id:	T0608100923
Status:	Open - Site Assessment
Status Date:	09/13/1996

Regulatory Activities:

Global Id:	T0608100923
Action Type:	Other
Date:	06/05/1996
Action:	Leak Discovery
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	12/17/1996
Action:	Notice of Responsibility - #1
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	01/30/2006
Action:	Closure/No Further Action Letter - #20060130
Global Id:	T0608100923
Action Type:	Other
Date:	09/13/1996
Action:	Leak Reported
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	03/12/2004
Action:	Staff Letter - #20040312
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	07/20/2004
Action:	Staff Letter - #20040720
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	11/10/2005
Action:	Staff Letter - #20051110
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	10/27/2005
Action:	Staff Letter - #20051027
Global Id:	T0608100923
Action Type:	RESPONSE

CALTRANS MAINTENANCE FACILITY (Continued) **S103064831**

Date: 11/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0608100923
Action Type: RESPONSE
Date: 08/31/2004
Action: Other Report / Document

Global Id: T0608100923
Action Type: RESPONSE
Date: 12/30/2005
Action: Other Report / Document

Global Id: T0608100923
Action Type: RESPONSE
Date: 01/31/2006
Action: Electronic Reporting Submittal Due

Global Id: T0608100923
Action Type: RESPONSE
Date: 01/31/2006
Action: Unknown

Global Id: T0608100923
Action Type: REMEDIATION
Date: 06/05/1996
Action: Pump & Treat (P&T) Groundwater

Global Id: T0608100923
Action Type: REMEDIATION
Date: 06/05/1996
Action: Excavation

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/27/2010
Global Id: T0608197613
Lead Agency: SAN MATEO COUNTY LOP
Lead Agency Case Number: 339203
Latitude: 37.487201
Longitude: -122.201029
Case Type: Cleanup Program Site
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: Alcohols, Other Insecticides / Pesticide / Fumigants / Herbicides
Site History: Extracted from GeoCon's December 2005 Revised Additional Site Investigation Report, San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report. The site is located at 5201 East Bayshore Road in Redwood City, California. The site is developed with an equipment repair building, Caltrans crew office, storage building and loading dock, and a vehicle wash rack. The wash

CALTRANS MAINTENANCE FACILITY (Continued) **S103064831**

rack is located in the northern corner of the Redwood City Caltrans facility. The maintenance yard is used to store and repair Caltrans vehicles. The maintenance facility is bounded by East Bayshore Boulevard to the south, a mobile home storage facility to the north, a commercial building to the east, and a paved lot to the west. The former Cargill Salt Ponds are located approximately 450 north of the Caltrans Redwood City Maintenance Yard. In 1996, a soil and groundwater investigation was conducted by Professional Service Industries, Inc. (PSI) in the immediate vicinity of the wash rack. The wash rack had not yet been constructed when PSI conducted their investigation. At that time, the purpose of the investigation was to evaluate the likelihood that workers excavating soil during the construction of the wash rack would come in contact with impacted soil and gnundwater. Three soil borings (RW1, RW3, and RW3) were advanced around the perimeter of the wash rack location as depicted on Figure 2, Sample Location Map, and soil and grab groundwater samples were collected for laboratory analysis. The soil and groundwater samples were analyzed for total recoverable petroleum hydrocarbon compounds (TRPH), total petroleum hydrocarbon compounds as gasoline (TPHg), as diesel (TPHd), polychlorinated biphenyls (PCBs), California Assessment Manual (CAM 17) metals, pesticides and herbicides, chlorinated herbicides, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), ethylene glycol, and pH. TRPH, TPHg, TPHd, PCBs, VOCs, and SVOCs were reported as non-detect in all soil and grab groundwater samples analyzed for these constituents. Analytical laboratory results indicated that dinoseb, a chlorinated herbicide, was detected at concentrations ranging from 0.02 to 0.04 milligrams per kilogram (mg/kg) in near surface soil samples collected from each soil boring location. Dinoseb was not detected above the laboratory reporting limit concentration in the grab groundwater sample collected from RW-3 (grab groundwater samples were not collected from soil borings RWI and RW2). The grab groundwater sample collected from RW3 was reported to contain ethylene glycol at a concentration of 30 milligrams per liter (mg/l); and cadmium and selenium at concentrations of 0.04 mg/l and 0.07 mg/l, respectively, both of which exceed State of California maximum contaminant levels (MCLs) established for drinking water. Based on the soil and groundwater sample results reported during the 1996 investigation, and available San Mateo County Department of Health Services (DHS) correspondence, the DHS required that additional investigation be conducted to show "the residual, onsite concentrations of the chemicals of concern have been adequately assessed and do not pose a risk to public health and the environment." Based on the comments received from the DHS, PSI prepared a workplan in early 2004 to conduct additional investigation in the immediate vicinity of the wash rack. The scope of services described in this report are based on information contained in the PSI workplan, subsequent DHS and Caltrans correspondence.

Click here to access the California GeoTracker records for this facility:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1009

M67 **CALTRANS-REDWOOD CITY** **CA LUST** **S103723165**
NW **2501 BAYSHORE** **CA San Mateo Co. BI** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.488 mi.
2575 ft. **Site 3 of 3 in cluster M**

Relative:
Lower

Actual:
8 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Pollution Characterization
Case Number:	330147
How Discovered:	Tank Closure
Leak Cause:	Unknown
Leak Source:	Unknown
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	9/13/1996
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0024291
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	LESS THAN 500 TIRES
Record Id:	PR0045654
Description:	LESS THAN 500 TIRES
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id:	PR0024290
Description:	STORES HAZ MAT <1,199GAL,9,999LB,4,799CF
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	2353
Record Id:	PR0066750
Description:	TANK STOR CAP =>1,320 & <10,000 GAL
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	2353
Record Id:	PR0034109
Description:	TANK STOR CAP =>1,320 & <10,000 GAL
Facility Status:	INACTIVE

CALTRANS-REDWOOD CITY (Continued) **S103723165**

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	UNDERGROUND TANK - GENERAL
Record Id:	PR0024289
Description:	UNDERGROUND TANK - GENERAL
Facility Status:	INACTIVE

68
SE
1/4-1/2
0.498 mi.
2630 ft.

MARSH ROAD DELI
763 MARSH
MENLO PARK, CA 94025

CA LUST **S102628214**
CA San Mateo Co. BI **N/A**
CA HIST CORTESE

Relative:
Higher

Actual:
27 ft.

LUST:

Region:	STATE
Global Id:	T0608100932
Latitude:	37.474397
Longitude:	-122.188432
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/21/2000
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1019
LOC Case Number:	440048
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100932
Contact Type:	Local Agency Caseworker
Contact Name:	MARC MULLANEY
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	mmullaney@smcgov.org
Phone Number:	6503726289

Global Id:	T0608100932
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

Status History:

Global Id:	T0608100932
Status:	Completed - Case Closed
Status Date:	04/21/2000

Global Id:	T0608100932

MARSH ROAD DELI (Continued) **S102628214**

Status: Open - Case Begin Date
Status Date: 05/02/1997

Regulatory Activities:
Global Id: T0608100932
Action Type: ENFORCEMENT
Date: 06/10/1997
Action: Notice of Responsibility - #1

Global Id: T0608100932
Action Type: Other
Date: 05/02/1997
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 440048
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 440048
Facility Status: 9- Case Closed
Global ID: T0608100932
APN Number: 060143370
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0037357
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0054224
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0022668
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0025215
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

MARSH ROAD DELI (Continued) **S102628214**

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-1019

L69
NE
1/2-1
0.523 mi.
2763 ft.

GENERAL CIRCUITS INC
3585 HAVEN AVENUE
MENLO PARK, CA 94025

Site 2 of 3 in cluster L

CA ENVIROSTOR **1000214038**
CA HIST UST **N/A**
CA San Mateo Co. BI
CA HWP

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:
Facility ID: 80001497
Status: Inactive - Needs Evaluation
Status Date: 06/29/2009
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Julie Pettijohn
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.48660
Longitude: -122.1859
APN: 055130240
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 055130240
Alias Type: APN
Alias Name: CAD982462335
Alias Type: EPA Identification Number
Alias Name: 80001497
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: 03/08/1991
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

GENERAL CIRCUITS INC (Continued) **1000214038**

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: 0002BECC
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002BECC.pdf
Region: STATE
Facility ID: 00000000648
Facility Type: Other
Other Type: CIRCUIT MFC.
Contact Name: BOB GRAY
Telephone: 4153647717
Owner Name: GENERAL CIRCUITS, INCORPORATED
Owner Address: 3585 HAVEN AVENUE
Owner City,St,Zip: MENLO PARK, CA 94025
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1982
Tank Capacity: 00000115
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 3
Leak Detection: Visual

Click here for Geo Tracker PDF:

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0022969
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0025929
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0022969
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0025930
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0027450
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0043624
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0027450
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0043623

GENERAL CIRCUITS INC (Continued) **1000214038**

Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

HWP:
EPA Id: CAD982462335
Cleanup Status: KNOWN GENERATORS
Latitude: 37.48605
Longitude: -122.1864
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 22
Senate District: 13
Public Information Officer: Not reported
Public Information Officer: Not reported

L70 **GENERAL CIRCUITS INC** **SEMS-ARCHIVE** **1000214026**
NE **3585 HAVEN AVENUE** **CORRACTS** **CAD982462335**
1/2-1 **MENLO PARK, CA 94025** **RCRA-SQG**
0.523 mi. **CA HAZNET**
2763 ft. **Site 3 of 3 in cluster L**

Relative:
Lower

Actual:
11 ft.

SEMS-ARCHIVE:
Site ID: 903257
EPA ID: CAD982462335
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0903257
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13287086.00000
Person ID: 13003854.00000

Contact Sequence ID: 13292681.00000
Person ID: 13003858.00000

Contact Sequence ID: 13298539.00000
Person ID: 13004003.00000

Program Priority:
Description: RCRA Deferral Audit

Description: RCRA Deferral - New Decision

Description: RCRA Deferral - Further Superfund Assessment

CERCLIS-NFRAP Assessment History:
Action: PRELIMINARY ASSESSMENT

GENERAL CIRCUITS INC (Continued) **1000214026**

Date Started: / /
Date Completed: 03/08/91
Priority Level: Deferred to RCRA (Subtitle C)

Action: DISCOVERY
Date Started: / /
Date Completed: 10/18/90
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/23/96
Priority Level: Not reported

CORRACTS:

EPA ID: CAD982462335
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910308
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: GENERAL CIRCUITS INC
Facility address: 3585 HAVEN AVENUE
MENLO PARK, CA 94025
EPA ID: CAD982462335
Mailing address: 3601 HAVEN AVENUE
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
Legal status: Private

GENERAL CIRCUITS INC (Continued) **1000214026**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: GENERAL CIRCUITS INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
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: 01/09/1989
Site name: GENERAL CIRCUITS INC
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 03/08/1991
Event: CA049PA

Event date: 03/08/1991
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 03/08/1991
Event: CA074LO

Violation Status: No violations found

HAZNET:
envid: 1000214026
Year: 1993
GEPAID: CAD982462335
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported

GENERAL CIRCUITS INC (Continued) **1000214026**

Mailing Address: 3601 HAVEN AVENUE
Mailing City,St,Zip: MENLO PARK, CA 940250000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Land Fill
Tons: 1
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Mateo

N71 **KLIKLOK CO. (BUILDING #4)** **CA ENVIROSTOR S101482216**
West **2661 SPRING** **CA HIST CORTESE N/A**
1/2-1 **REDWOOD CITY, CA 90000**
0.684 mi.
3610 ft. **Site 1 of 2 in cluster N**

Relative:
Higher

Actual:
16 ft.

ENVIROSTOR:
Facility ID: 41340063
Status: Inactive - Needs Evaluation
Status Date: 10/25/2005
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: < 1
NPL: NO
Regulatory Agencies: SMBRP, SAN MATEO COUNTY
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.48264
Longitude: -122.2080
APN: 054161130
Past Use: METAL PLATING - CHROME, METAL PLATING - OTHER
Potential COC: Aluminum Cadmium and compounds Chromium III Copper and compounds Cyanide (free Nickel
Confirmed COC: Aluminum Cadmium and compounds Chromium III Copper and compounds Cyanide (free Nickel
Potential Description: OTH, SOIL
Alias Name: SUNSET PLATING INC
Alias Type: Alternate Name
Alias Name: 054161130
Alias Type: APN
Alias Name: 41340063
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery

KLIKLOK CO. (BUILDING #4) (Continued) **S101482216**

Completed Date: 01/15/1981
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 11/04/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/20/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/22/2002
Comments: Site screening completed. Preliminary endangerment assessment required.

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 CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: CALSI
Reg Id: 41340063

N72 **UNKNOWN** **CA Notify 65** **S100179087**
WNW **860 HURLINGAMES** **N/A**
1/2-1 **REDWOOD CITY, CA 92257**
0.685 mi.
3618 ft. **Site 2 of 2 in cluster N**

Relative:
Higher

Actual:
14 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

73
WNW
1/2-1
0.745 mi.
3935 ft.

PETERSEN PRECISION ENGINEERING, LLC
611 BROADWAY STREET
REDWOOD CITY, CA 94063

CA ENVIROSTOR **S118757206**
N/A

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:

Facility ID:	60001134
Status:	No Action Required
Status Date:	06/24/2010
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Assembly:	22
Senate:	13
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	37.48570
Longitude:	-122.2080
APN:	054-050-050, 054-050-160
Past Use:	MACHINE SHOP
Potential COC:	Under Investigation Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	30022-NO 30027-NO 31001-NO
Potential Description:	OTH, SOIL
Alias Name:	054-050-050
Alias Type:	APN
Alias Name:	054-050-160
Alias Type:	APN
Alias Name:	60001134
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	07/15/2009
Comments:	Mailed out certified letter on July 15, 2009.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/24/2010
Comments:	Site Screening final & signed. Groundwater from upgradient contains TCE & PCE. No data pointing subject site as source of contamination. Potential source is unknown upgradient.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	09/14/2009
Comments:	Ampex Corporation respondence of the info request dated Aug. 11, 2009.

PETERSEN PRECISION ENGINEERING, LLC (Continued) **S118757206**

Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	09/22/2009
Comments:	Petersen Precision Engineering respondence of info request dated Aug. 10, 2009.
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

74
ENE
1/2-1
0.868 mi.
4584 ft.

SEIBERT, J., MACHINE CORP **CA ENVIROSTOR** **S101482217**
119 INDEPENDENCE DR. **CA San Mateo Co. BI** **N/A**
MENLO PARK, CA 94025

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:

Facility ID:	41350016
Status:	Refer: Other Agency
Status Date:	03/31/1995
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:	37.48393
Longitude:	-122.1777
APN:	055236180
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	055236180
Alias Type:	APN
Alias Name:	41350016
Alias Type:	Envirostor ID Number

Completed Info:

SEIBERT, J., MACHINE CORP (Continued) **S101482217**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 08/01/1980
Comments: FACILITY IDENTIFIED INACTIVE SITE I.D.'D IN INITIAL RESEARCH

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/01/1988
Comments: SITE SCREENING DONE NEED MORE INFO

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

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0024825
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0030764
Description: GENERATES <27 GAL/YEAR
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0024825
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0030763
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

O75 **COORS WEST** **CA LUST** **S100178861**
WNW **890 BROADWAY** **CA Notify 65** **N/A**
1/2-1 **REDWOOD CITY, CA 94063**
0.892 mi.
4711 ft. **Site 1 of 2 in cluster O**

Relative:
Lower

Actual:
12 ft.

LUST:
Region: STATE
Global Id: T0608100270
Latitude: 37.485947
Longitude: -122.209245
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/03/1995
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0284
LOC Case Number: 330031
File Location: Local Agency Warehouse

COORS WEST (Continued) **S100178861**

Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100270
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100270
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

Status History:
Global Id: T0608100270
Status: Completed - Case Closed
Status Date: 07/03/1995

Global Id: T0608100270
Status: Open - Case Begin Date
Status Date: 12/20/1988

Regulatory Activities:
Global Id: T0608100270
Action Type: Other
Date: 12/20/1988
Action: Leak Reported

Global Id: T0608100270
Action Type: ENFORCEMENT
Date: 12/20/1988
Action: Notice of Responsibility - #1

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330031
Facility Status: 9- Case Closed
Global ID: T0608100270
APN Number: 054040270
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

COORS WEST (Continued) **S100178861**

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

O76 **TYDEMAN MACHINE WORKS** **CA ENVIROSTOR** **S118756934**
WNW **BROADWAY AND CHARTER** **N/A**
1/2-1 **REDWOOD CITY, CA 94063**
0.927 mi.
4895 ft. **Site 2 of 2 in cluster O**

Relative:
Lower

Actual:
13 ft.

ENVIROSTOR:
Facility ID: 41340062
Status: No Action Required
Status Date: 12/22/2005
Site Code: 201571
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.48
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Assembly: 22
Senate: 13
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.48695
Longitude: -122.2111
APN: 054-023-110
Past Use: MACHINE SHOP
Potential COC: TPH-MOTOR OIL
Confirmed COC: TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: HELLER HELICOPTERS
Alias Type: Alternate Name
Alias Name: 054-023-110
Alias Type: APN
Alias Name: 201571
Alias Type: Project Code (Site Code)
Alias Name: 41340062
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/13/1981
Comments: FACILITY IDENTIFIED ACTIVE SITE ID'DON DRIVEBY DHS, DURING A DRIVE/BY, OBSERVED SOIL STAINING & UNSAFE DRUMS STORAGE AREA FACILITY

TYDEMAN MACHINE WORKS (Continued) **S118756934**

DRIVE-BY EVIDENCE OF WASTE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 01/01/1989
Comments: PRELIM ASSESS DONE NFA: BASED ON AVAILABLE INFORMATION

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/08/1987
Comments: SITE SCREENING DONE OBSERVED NUMEROUS 55 GAL DRUMS, LACK OF VEGITATION AND OIL ON GROUND

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 08/30/2002
Comments: Site screening completed. Preliminary endangerment assessment required.

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

77
WNW
1/2-1
0.934 mi.
4930 ft.

STAR TOOL & ENGINEERING CO INC
860 CHARTER
REDWOOD CITY, CA 94063

CA ENVIROSTOR **S113756409**
CA SLIC **N/A**
CA VCP
CA San Mateo Co. BI

Relative:
Lower

Actual:
13 ft.

ENVIROSTOR:
Facility ID: 60002245
Status: Active
Status Date: 09/28/2015
Site Code: 204277
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.4
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Craig Sanchez
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Assembly: , 24
Senate: , 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party

STAR TOOL & ENGINEERING CO INC (Continued) **S113756409**

Latitude: 37.48472
Longitude: -122.2119
APN: 054-010-140, 054-081-010
Past Use: UNKNOWN
Potential COC: Under Investigation Benzene Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride
Confirmed COC: Under Investigation
Potential Description: IA, OTH, SOIL, SV, UE
Alias Name: 054-010-140
Alias Type: APN
Alias Name: 054-081-010
Alias Type: APN
Alias Name: 204277
Alias Type: Project Code (Site Code)
Alias Name: 60002245
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/28/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 09/06/2016
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Future Due Date: 2017
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Preliminary Endangerment Assessment Report
Schedule Due Date: 04/15/2017
Schedule Revised Date: Not reported

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 06/02/2016
Global Id: T10000006424
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.4845390879181
Longitude: -122.211878076057
Case Type: Cleanup Program Site
Case Worker: JGU
Local Agency: SAN MATEO 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: Dichloroethene (DCE), Trichloroethylene (TCE), Vinyl chloride, Benzene

STAR TOOL & ENGINEERING CO INC (Continued) **S113756409**

Site History: Phase II investigation identified chlorinated VOCs and benzene in groundwater. The source is unkown. TCE was detected in subslab and subsurface soil vapor samples at 220 a%g/m3 and 2,600 a%g/m3, respectively. the site is currenly used for display of classic automobiles.

Click here to access the California GeoTracker records for this facility:

VCP:

Facility ID:	60002245
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.4
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Craig Sanchez
Supervisor:	Jose Salcedo
Division Branch:	Northern California Schools & Santa Susana
Site Code:	204277
Assembly:	, 24
Senate:	, 13
Special Programs Code:	Not reported
Status:	Active
Status Date:	09/28/2015
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.48472 / -122.2119
APN:	054-010-140, 054-081-010
Past Use:	UNKNOWN
Potential COC:	31001, 30003, 30022, 30024, 30025, 30026, 30027, 30028
Confirmed COC:	31001
Potential Description:	IA, OTH, SOIL, SV, UE
Alias Name:	054-010-140
Alias Type:	APN
Alias Name:	054-081-010
Alias Type:	APN
Alias Name:	204277
Alias Type:	Project Code (Site Code)
Alias Name:	60002245
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	06/28/2016
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	09/06/2016
Comments:	Not reported

STAR TOOL & ENGINEERING CO INC (Continued) **S113756409**

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Future Due Date: 2017
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Preliminary Endangerment Assessment Report
Schedule Due Date: 04/15/2017
Schedule Revised Date: Not reported

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0017433
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0011103
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017433
Prog Element Code: RECYCLER
Record Id: PR0037777
Description: RECYCLER
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017433
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0024357
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF
Facility Status: INACTIVE

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78 **UNKNOWN** **CA Notify 65** **S100178957**
SW **197 FIFTH AVENUE** **N/A**
1/2-1 **REDWOOD CITY, CA 92257**
0.953 mi.
5030 ft.

Relative:
Higher

Actual:
38 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

79
WSW
1/2-1
0.991 mi.
5233 ft.

COORS WEST
2700 MIDDLEFIELD ROAD
REDWOOD CITY, CA 92257

CA Notify 65

S100179570
N/A

Relative:
Higher

Actual:
28 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

Count: 7 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MENLO PARK	1003878514	BROWNING-FERRIS INDS	END OF MARSH RD	94025	SEMS-ARCHIVE
MENLO PARK	S100538945	BROWNING-FERRIS INDUSTRIES	END OF MARSH ROAD, EAST OF HIG	94025	CA ENVIROSTOR
MENLO PARK	S113186755	ANTON MENLO	3605- 3639 HAVEN AVE		CA LUST
MENLO PARK	S103472755	HUETTIG & SCHROMM	3700 HAVEN	94025	CA LUST
MENLO PARK	1015732804	MENLO PARK SAN DIST TRMT PLT	1700 MARSH RD EXTN 1	94025	SEMS-ARCHIVE, RCRA NonGen / NL
REDWOOD CITY	S109149555	SEQUOIA ALTERNATIVE SCHOOL	435, 455, 461 5TH AVENUE AND 4	94063	CA ENVIROSTOR, CA SCH
REDWOOD CITY	1003878892	PG&E GAS PLANT REDWOOD CITY	E MARSHALL WASHINGTON BROADWAY	94063	SEMS-ARCHIVE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 04/07/2017
Next Scheduled EDR Contact: 07/17/2017
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: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/31/2017
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: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/25/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

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: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

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 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: 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 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 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

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

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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/12/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 57
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/16/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

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: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/02/2017
Next Scheduled EDR Contact: 07/03/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 01/13/2017
Date Data Arrived at EDR: 01/17/2017
Date Made Active in Reports: 05/31/2017
Number of Days to Update: 134
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/14/2017
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: 09/30/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 12/31/2016
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 54

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

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: 09/30/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 03/09/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
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

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 105

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

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: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 05/19/2017
Next Scheduled EDR Contact: 08/28/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
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: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/03/2017
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: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
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: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
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: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
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: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
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: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/06/2017
Next Scheduled EDR Contact: 07/17/2017
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: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

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: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
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: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 03/07/2017
Next Scheduled EDR Contact: 07/10/2017
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: 03/07/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 06/02/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
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: 04/04/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 35

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 04/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
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: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 64
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 42
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
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: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
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: 01/23/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 118

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/07/2017
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: 02/14/2017
Date Data Arrived at EDR: 02/17/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 97

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/11/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 04/26/2017
Number of Days to Update: 13
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/13/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Varies

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: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/15/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 107
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
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: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 87
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 70
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/03/2017
Next Scheduled EDR Contact: 07/03/2017
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: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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 board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas 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 Historic Dry 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:

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: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 31

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 37

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 94

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

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: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/23/2017
Date Data Arrived at EDR: 02/24/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 77

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/17/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/26/2017
Number of Days to Update: 65

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/24/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 73

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

FRESNO COUNTY:

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: 04/06/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 40

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/20/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 57

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 36

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 77

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

KINGS COUNTY:

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: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2017
Date Data Arrived at EDR: 01/20/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 41

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

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: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 66
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Date Data Arrived at EDR: 04/18/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 14
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/17/2017
Date Data Arrived at EDR: 01/18/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 112
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Semi-Annually

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: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Date Data Arrived at EDR: 01/13/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 110

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

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: 03/03/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 76

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 54

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 96

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/11/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 85
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 1
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 98
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

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: 11/08/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 105

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

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: 12/09/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

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: 10/05/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/10/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

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: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/28/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 62
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/21/2017
Date Data Arrived at EDR: 03/23/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 47
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 02/21/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 91
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 33
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 14
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 89
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

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

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/10/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 75

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 47

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 03/01/2017
Date Data Arrived at EDR: 03/30/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 54

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 01/24/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 114

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List

Cupa facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 113

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

TULARE COUNTY:

CUPA Facility List
Cupa program facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/25/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 34

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

VENTURA COUNTY:

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: 12/27/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 103

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

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: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 89

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2017
Date Data Arrived at EDR: 03/15/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/15/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
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: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 01/03/2017
Number of Days to Update: 96
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
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: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
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 & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TAFT COMMUNITY SCHOOL
903 TENTH AVENUE
REDWOOD CITY, CA 94063

TARGET PROPERTY COORDINATES

Latitude (North):	37.481008 - 37° 28' 51.63''
Longitude (West):	122.194425 - 122° 11' 39.93''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	571225.2
UTM Y (Meters):	4148334.5
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640620 PALO ALTO, 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 principal 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).

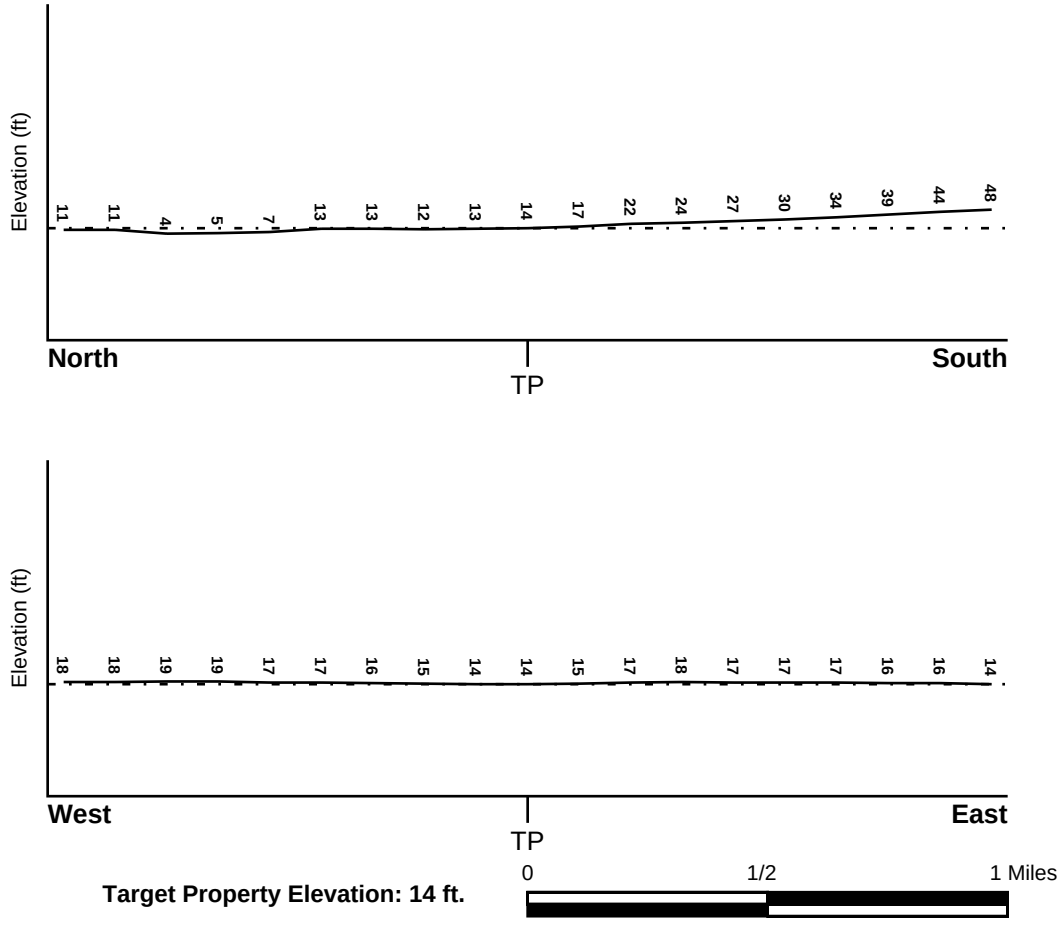
TOPOGRAPHIC INFORMATION

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: 14 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
06081C0302E	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06081C0306E	FEMA FIRM Flood data
0603120000B	FEMA Q3 Flood data
0603110252B	FEMA Q3 Flood data
06081C0308E	FEMA FIRM Flood data
0603110254B	FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PALO ALTO	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
A1	1/8 - 1/4 Mile WSW	Not Reported
A2	1/4 - 1/2 Mile WSW	NNW
B3	1/4 - 1/2 Mile WSW	Not Reported
B4	1/4 - 1/2 Mile WSW	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

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
C5	1/4 - 1/2 Mile West	N
C6	1/4 - 1/2 Mile West	E
8	1/4 - 1/2 Mile West	Not Reported
10	1/4 - 1/2 Mile NW	NE
D11	1/4 - 1/2 Mile NNW	NW
D12	1/4 - 1/2 Mile NNW	NW
13	1/4 - 1/2 Mile West	N
14	1/4 - 1/2 Mile NE	Not Reported
E15	1/4 - 1/2 Mile SSE	Not Reported
E16	1/4 - 1/2 Mile SSE	Not Reported
F17	1/4 - 1/2 Mile NW	W
F18	1/2 - 1 Mile NW	W
G19	1/2 - 1 Mile ESE	NE
G20	1/2 - 1 Mile ESE	NE
G21	1/2 - 1 Mile ESE	N
22	1/2 - 1 Mile SE	N
23	1/2 - 1 Mile ENE	Not Reported
H24	1/2 - 1 Mile SE	NNE
I25	1/2 - 1 Mile WNW	N
I26	1/2 - 1 Mile WNW	N
27	1/2 - 1 Mile West	N
28	1/2 - 1 Mile ESE	Not Reported
H29	1/2 - 1 Mile SSE	Not Reported
H30	1/2 - 1 Mile SSE	Not Reported
32	1/2 - 1 Mile NW	N
I34	1/2 - 1 Mile West	NNE
J35	1/2 - 1 Mile West	WNW
37	1/2 - 1 Mile East	Not Reported
38	1/2 - 1 Mile ENE	NNW
K39	1/2 - 1 Mile West	Not Reported
40	1/2 - 1 Mile SW	NNW
K41	1/2 - 1 Mile West	NE
K42	1/2 - 1 Mile West	NE
43	1/2 - 1 Mile WNW	SW
44	1/2 - 1 Mile East	NE
L45	1/2 - 1 Mile WNW	Not Reported
L46	1/2 - 1 Mile WNW	Not Reported
L47	1/2 - 1 Mile WNW	Not Reported
M48	1/2 - 1 Mile WNW	N
M49	1/2 - 1 Mile WNW	Not Reported
50	1/2 - 1 Mile WSW	NE

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

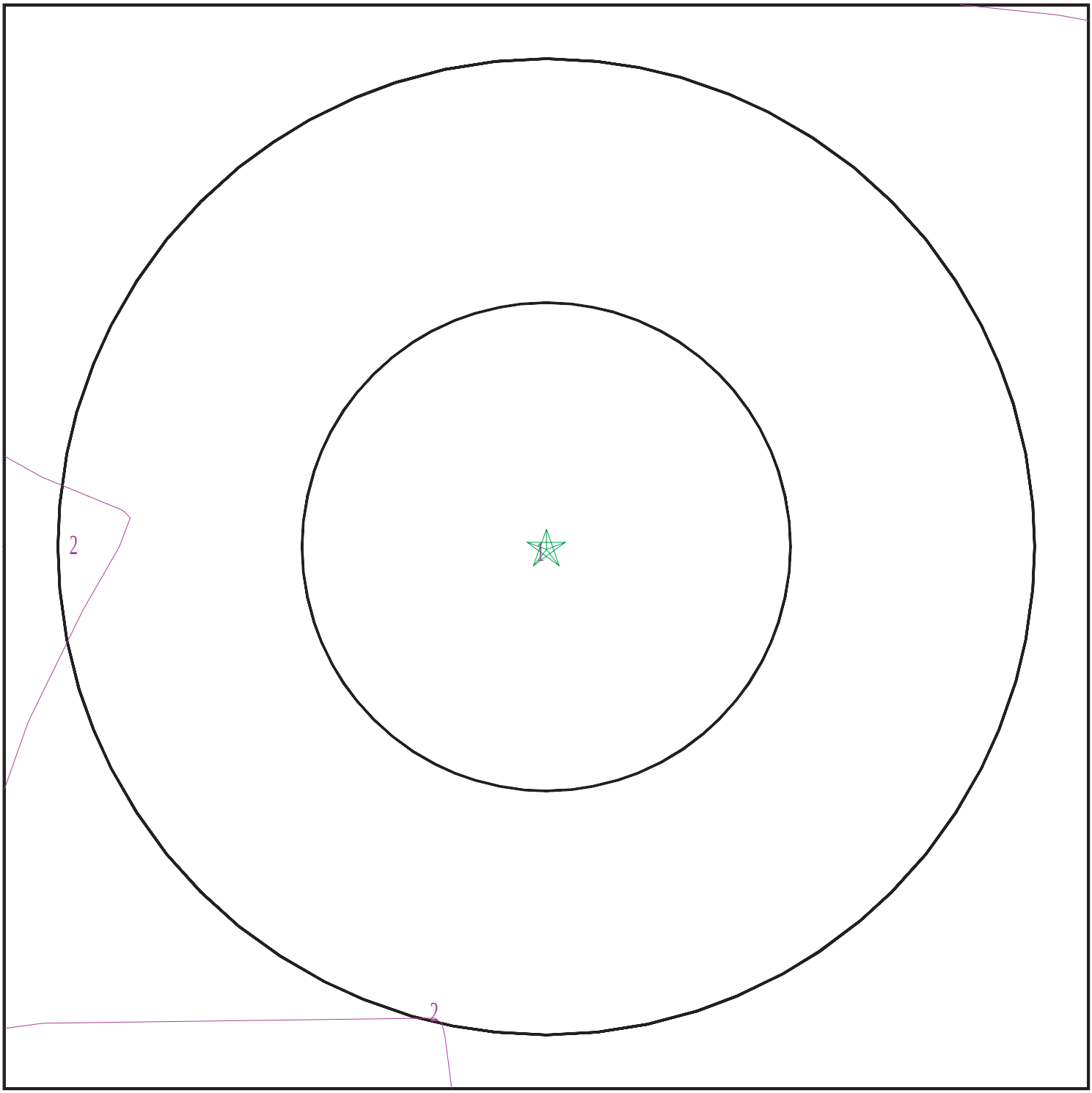
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4955887.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Taft Community School	CLIENT:	McCloskey Consultants Inc
ADDRESS:	903 Tenth Avenue Redwood City CA 94063	CONTACT:	Tom Mccloskey
LAT/LONG:	37.481008 / 122.194425	INQUIRY #:	4955887.2s
		DATE:	June 05, 2017 10:06 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches		Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

Soil Map ID: 2

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches		Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
7	USGS40000183433	1/4 - 1/2 Mile North
9	USGS40000183434	1/4 - 1/2 Mile NNW
31	USGS40000183400	1/2 - 1 Mile ESE
33	USGS40000183382	1/2 - 1 Mile South
51	USGS40000183354	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

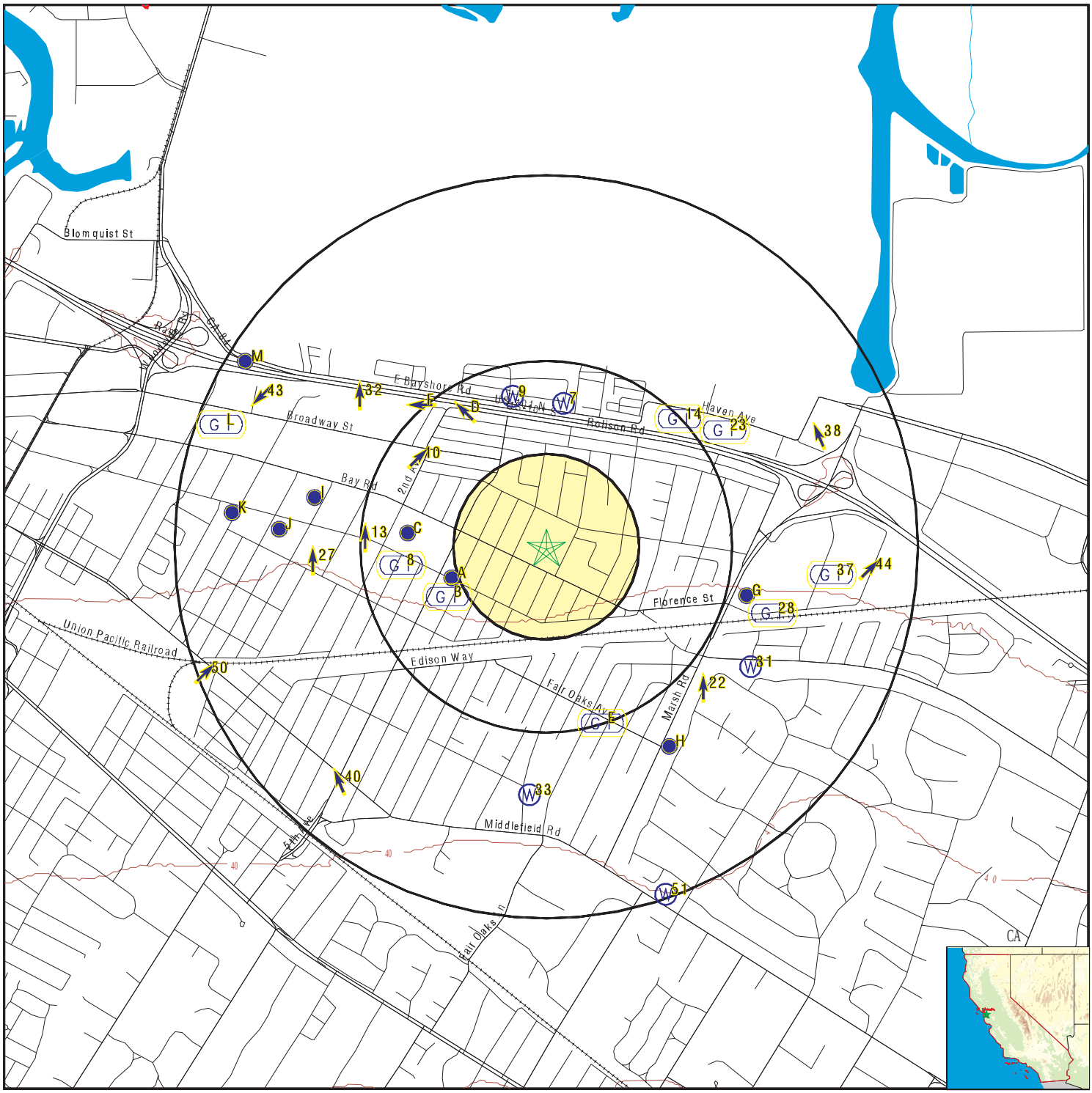
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 4955887.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Taft Community School	CLIENT: McCloskey Consultants Inc
ADDRESS: 903 Tenth Avenue Redwood City CA 94063	CONTACT: Tom Mccloskey
LAT/LONG: 37.481008 / 122.194425	INQUIRY #: 4955887.2s DATE: June 05, 2017 10:05 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
A1 **WSW** **1/8 - 1/4 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0619 Not Reported 8.6 11.03 Not Reported 09/1991	**AQUIFLOW**	**66022**
A2 **WSW** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0045 NNW 10.5 12. Not Reported 12/21/1989	**AQUIFLOW**	**66649**
B3 **WSW** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330039 Not Reported 13.39 14.35 Not Reported 12/03/1992	**AQUIFLOW**	**66004**
B4 **WSW** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0227 Not Reported 13.39 14.35 Not Reported 12/03/1992	**AQUIFLOW**	**66005**
C5 **West** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0398 N 6.05 10.18 Not Reported 03/1996	**AQUIFLOW**	**66028**
C6 **West** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0246 E 8.5 9 Not Reported 10/25/1995	**AQUIFLOW**	**68942**
7 **North** **1/4 - 1/2 Mile** **Lower**			**FED USGS**	**USGS40000183433**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372912122113301		
Monloc name:	005S003W21G002M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4866043
Longitude:	-122.1935762	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.00
Vert measure units:	feet	Vertacc measure val:	001
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel

1980-11-24
Note: The site was flowing, but the head could not be measured without additional equipment.
1980-05-08
Note: The site was flowing, but the head could not be measured without additional equipment.
1979-10-02
Note: The site was flowing, but the head could not be measured without additional equipment.
1979-04-11
Note: The site was flowing, but the head could not be measured without additional equipment.

8
West
1/4 - 1/2 Mile
Higher

Site ID:	41-0418
Groundwater Flow:	Not Reported
Shallow Water Depth:	8.52
Deep Water Depth:	9.00
Average Water Depth:	Not Reported
Date:	12/15/1988

AQUIFLOW **66644**

9
NNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000183434**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372913122114201		
Monloc name:	005S003W21G001M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4868821
Longitude:	-122.1960762	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.00
Vert measure units:	feet	Vertacc measure val:	001
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19620201	Welldepth:	367
Welldepth units:	ft	Wellholedepth:	380
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-10-07					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1974-05-02	3.60				

10
NW
1/4 - 1/2 Mile
Lower

Site ID:	41-0691
Groundwater Flow:	NE
Shallow Water Depth:	6.4
Deep Water Depth:	7.6
Average Water Depth:	Not Reported
Date:	02/19/1985

AQUIFLOW **65570**

D11
NNW
1/4 - 1/2 Mile
Lower

Site ID:	41-0719
Groundwater Flow:	NW
Shallow Water Depth:	6.71
Deep Water Depth:	7.42
Average Water Depth:	Not Reported
Date:	02/13/1991

AQUIFLOW **65526**

D12
NNW
1/4 - 1/2 Mile
Lower

Site ID:	330063
Groundwater Flow:	NW
Shallow Water Depth:	6.71
Deep Water Depth:	7.42
Average Water Depth:	Not Reported
Date:	02/13/1991

AQUIFLOW **65525**

13
West
1/4 - 1/2 Mile
Higher

Site ID:	41-0192
Groundwater Flow:	N
Shallow Water Depth:	9.2
Deep Water Depth:	9.7
Average Water Depth:	9.5a
Date:	09/19/1994

AQUIFLOW **65588**

14
NE
1/4 - 1/2 Mile
Lower

Site ID:	440031
Groundwater Flow:	Not Reported
Shallow Water Depth:	4.5
Deep Water Depth:	5.0
Average Water Depth:	Not Reported
Date:	11/26/1990

AQUIFLOW **64422**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
E15 **SSE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330155 Not Reported Not Reported Not Reported 8’ 04/07/1998	**AQUIFLOW**	**67036**
E16 **SSE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-1091 Not Reported Not Reported Not Reported 8’ 04/07/1998	**AQUIFLOW**	**67037**
F17 **NW** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330147 W 3.0 7.6 Not Reported 04/07/1997	**AQUIFLOW**	**65976**
F18 **NW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-1009 W 3.0 7.6 Not Reported 04/07/1997	**AQUIFLOW**	**65975**
G19 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440018 NE 7.79 11.89 Not Reported 09/07/1994	**AQUIFLOW**	**64481**
G20 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440034 NE Not Reported Not Reported 17.39 09/10/1991	**AQUIFLOW**	**64355**
G21 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0195 N 11.85 13’ Not Reported 07/25/1996	**AQUIFLOW**	**67110**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
22 **SE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440048 N 10.41 10.69 Not Reported 01/26/1999	**AQUIFLOW**	**51130**
23 **ENE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0158 Not Reported Not Reported Not Reported 6a 06/08/1992	**AQUIFLOW**	**67035**
H24 **SE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440002 NNE 11.77 13.28 Not Reported 07/03/1996	**AQUIFLOW**	**64368**
I25 **WNW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330100 N 10 11 Not Reported 10/13/1992	**AQUIFLOW**	**65535**
I26 **WNW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330100 N 10 11 Not Reported 10/13/1992	**AQUIFLOW**	**65538**
27 **West** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0273 N 13.17 15.00 Not Reported 03/02/1992	**AQUIFLOW**	**66705**
28 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440039 Not Reported Not Reported Not Reported 12 07/13/1992	**AQUIFLOW**	**64392**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
H29 **SSE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0223 Not Reported Not Reported Not Reported 19 11/07/1988	**AQUIFLOW**	**64375**
H30 **SSE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440025 Not Reported Not Reported Not Reported 19 11/07/1988	**AQUIFLOW**	**64376**

31
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000183400**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372835122110001		
Monloc name:	005S003W22N001M		
Monloc type:	Well		
Monloc desc:	ATHERTON GW STUDY SITE		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4763269
Longitude:	-122.1844093	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	23
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 46

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-12-14	15.24		1995-11-16	15.21	
1995-10-19	15.14		1995-09-14	15.10	
1995-08-31	15.10		1995-08-17	15.05	
1995-08-03	15.06				
1995-07-20	15.10				
Note: The site had been pumped recently.					
1995-07-06	15.13		1995-06-22	15.20	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-06-08	15.30		1995-05-11	15.51	
1995-04-27	15.67		1995-04-13	15.87	
1995-03-30	16.06		1995-03-16	16.29	
1995-03-07	16.35		1995-03-02	16.36	
1995-02-16	16.45		1995-02-02	16.62	
1995-01-19	16.75		1994-12-15	16.82	
1994-11-22	16.86		1994-11-11	16.76	
1994-10-20	16.65		1994-10-06	16.56	
1994-09-22	16.50		1994-08-18	16.20	
1994-08-04	16.12		1994-07-21	16.07	
1994-07-07	16.07		1994-06-23	15.97	
1994-06-09	15.96		1994-05-26	15.98	
1994-05-11	16.07		1994-04-28	16.09	
1994-04-13	16.14		1994-03-31	16.23	
1994-03-16	16.27		1994-03-03	16.39	
1994-02-17	16.46		1994-02-02	16.53	
1994-01-20	16.55		1993-10-19	16.55	
1993-08-11	16.35		1993-04-05	17.18	

32
NW
1/2 - 1 Mile
Lower

AQUIFLOW **65515**

Site ID:	41-0008
Groundwater Flow:	N
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	13.5a
Date:	03/13/1991

33
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000183382**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372817122113901		
Monloc name:	005S003W28G001M		
Monloc type:	Well		
Monloc desc:	ATHERTON GW STUDY SITE		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4713269
Longitude:	-122.1952429	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	31.5
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

Aquifer type: Not Reported
Construction date: 19770507 Welldepth: 75
Welldepth units: ft Wellholedepth: 75
Wellholedepth units: ft

Ground-water levels, Number of Measurements: 17

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-09-14	19.79		1995-06-22	18.70	
1995-03-30	18.80		1994-12-15	22.64	
1994-11-11	22.93		1994-10-06	22.76	
1994-09-08	22.45		1994-08-04	21.98	
1994-07-07	21.54		1994-06-09	21.17	
1994-05-12	20.96		1994-04-14	20.96	
1994-03-16	21.11		1994-01-20	22.05	
1993-10-19	22.18		1993-08-11	21.50	
1993-07-07	20.99				

I34
West
1/2 - 1 Mile
Higher

Site ID: 330062
Groundwater Flow: NNE
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 10a
Date: 06/1991

AQUIFLOW **67097**

J35
West
1/2 - 1 Mile
Higher

Site ID: 41-0313
Groundwater Flow: WNW
Shallow Water Depth: 10.81
Deep Water Depth: 13.82
Average Water Depth: Not Reported
Date: 03/08/1990

AQUIFLOW **66011**

J36
West
1/2 - 1 Mile
Higher

Site ID: 41-0070
Groundwater Flow: Not Reported
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 8
Date: 03/17/1987

AQUIFLOW **65764**

37
East
1/2 - 1 Mile
Higher

Site ID: 440047
Groundwater Flow: Not Reported
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 9
Date: 03/04/1996

AQUIFLOW **64378**

38
ENE
1/2 - 1 Mile
Lower

Site ID: 41-0110
Groundwater Flow: NNW
Shallow Water Depth: 5.0
Deep Water Depth: 7.0
Average Water Depth: Not Reported
Date: 03/31/1995

AQUIFLOW **64401**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
K39 **West** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0798 Not Reported 12 17 Not Reported 07/05/1994	**AQUIFLOW**	**65760**
40 **SW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0229 NNW Not Reported Not Reported 25 04/04/1996	**AQUIFLOW**	**66647**
K41 **West** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330025 NE 11’ 15’ Not Reported 07/09/1992	**AQUIFLOW**	**66712**
K42 **West** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0275 NE 11’ 15’ Not Reported 07/09/1992	**AQUIFLOW**	**66713**
43 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0343 SW 6.93 7.75 Not Reported 05/03/1995	**AQUIFLOW**	**65725**
44 **East** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440032 NE 6.45 8.95 Not Reported 09/05/1995	**AQUIFLOW**	**64384**
L45 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330031 Not Reported Not Reported Not Reported 8a 03/1989	**AQUIFLOW**	**65658**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
L46 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0284 Not Reported Not Reported Not Reported 8a 03/1989	**AQUIFLOW**	**65659**
L47 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0317 Not Reported 7.56 12.5 Not Reported 07/13/1987	**AQUIFLOW**	**67104**
M48 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330154 N Not Reported Not Reported 4 11/17/1997	**AQUIFLOW**	**65505**
M49 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0072 Not Reported Not Reported Not Reported 9.5 09/17/1991	**AQUIFLOW**	**65503**
50 **WSW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0071 NE 14 15 Not Reported 06/18/1980	**AQUIFLOW**	**65770**
51 **SSE** **1/2 - 1 Mile** **Higher**			**FED USGS**	**USGS40000183354**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372803122111501		
Monloc name:	005S003W28J003M		
Monloc type:	Well		
Monloc desc:	ATHERTON GW STUDY SITE		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4674382
Longitude:	-122.188576	Sourcemap scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	37
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19880915	Welldepth:	150
Welldepth units:	ft	Wellholedepth:	150
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 29

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-09-14	22.55		1995-07-19	21.17	
1995-06-22	20.13		1995-05-24	19.82	
1995-03-30	19.74		1994-12-15	24.70	
1994-11-11	26.67		1994-10-20	27.61	
1994-10-06	27.21		1994-09-22	27.38	
1994-09-08	26.62		1994-08-18	25.99	
1994-08-04	25.81		1994-07-21	25.30	
1994-07-07	25.07		1994-06-23	24.14	
1994-06-09	23.11		1994-05-26	22.69	
1994-05-12	22.06		1994-04-28	22.18	
1994-04-14	22.24		1994-03-31	22.06	
1994-03-17	22.16		1994-03-03	21.86	
1994-02-17	22.04		1994-02-02	22.44	
1994-01-20	22.81		1993-10-19	24.29	
1993-10-07	25.07				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94063	19	2

Federal EPA Radon Zone for SAN MATEO 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: 94063

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.300 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 & Game
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.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix G
Geotechnical Evaluation and Geologic Hazard Assessment

Geotechnical Evaluation and Geologic Hazard Assessment

Taft Community School
903 Tenth Avenue
Redwood City, California

Redwood City School District

750 Bradford Street | Redwood City, California 94063

February 23, 2018 | Project No. 402965003

Geotechnical | Environmental | Construction Inspection & Testing | Forensic Engineering & Expert Witness

Geophysics | Engineering Geology | Laboratory Testing | Industrial Hygiene | Occupational Safety | Air Quality | GIS

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

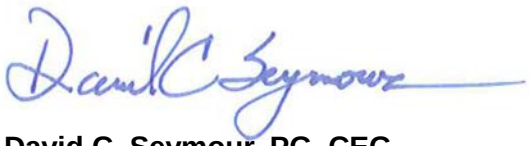
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

Geotechnical Evaluation and Geologic Hazard Assessment

Taft Community School
903 Tenth Avenue
Redwood City, California

Mr. Don Dias
Redwood City School District
750 Bradford Street | Redwood City, California 94063

February 22, 2018 | Project No. 402965003

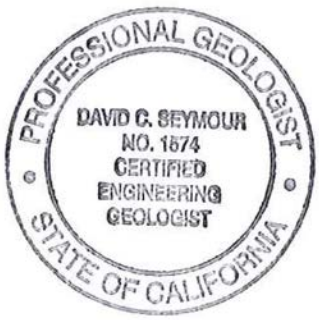


David C. Seymour, PG, CEG
Principal Geologist

Timothy P. Sneddon, PE, GE
Principal Engineer

DCS/TPS/slt

Distribution: (1) Addressee (via e-mail)



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1 INTRODUCTION

In accordance with your authorization, we have performed a geotechnical evaluation and geologic hazards assessment for the proposed improvements at Taft Community School campus located at 903 Tenth Avenue in Redwood City, California (Figure 1). This report presents the findings and conclusions from our geologic hazards assessment, and our geotechnical recommendations for improvements at the site.

2 SCOPE OF SERVICES

Our scope of services included the following:

- Review of readily available background materials, including geologic maps, aerial photographs, topographic data, and hazard maps.
- Site reconnaissance to observe the general site conditions and to mark the locations for our subsurface exploration.
- Obtained a boring permit from the San Mateo County Environmental Health Services Division.
- Coordination with Underground Service Alert (USA) to locate underground utilities in the vicinity of our subsurface exploration.
- Subsurface exploration consisting of three (3) hollow-stem auger borings to depths of 25 feet below the existing ground surface, two (2) hand auger borings to depths of 3 and 5 feet, and three (3) cone penetrometer test (CPT) soundings advanced to depths of 50 and 65 feet below the existing ground surface. A representative of Ninyo & Moore logged the subsurface conditions exposed in the borings and collected bulk and relatively undisturbed soil samples for laboratory testing.
- A geophysical seismic survey utilizing the Refraction Microtremor (ReMi) technique to evaluate the variation of seismic shear wave velocity with depth.
- One percolation test at a depth of 2 feet below the existing grade to assess infiltration rates.
- Laboratory testing on selected samples to evaluate in-situ soil moisture content and dry density, grain size distribution, Atterberg limits, expansion index, consolidation characteristics, unconfined compressive strength, soil corrosivity, and R-value.
- Compilation and engineering analysis of the field and laboratory data, and the findings from our background review.
- Preparation of this report presenting our findings and conclusions regarding the potential geologic hazards and geotechnical conditions at the project site, and our geotechnical recommendations for proposed improvements.

3 SITE DESCRIPTION

The school campus is located near the southwestern shoreline of San Francisco Bay in the City of Redwood City, California (Figure 1). The Taft school campus is bounded on the north by Page Street, on the south by Bay Road, on the west by Eighth Street, and on the east by Tenth Street. The site is relatively flat with an average elevation above mean sea level of about 15 feet (Google Earth, 2018). The proposed improvements are located at about 37.4810 degrees north latitude and 122.1937 degrees west longitude.

Historical topographic maps and aerial photographs that we reviewed indicate that the school was constructed in the 1950's. By 1965, the campus included the four main classroom buildings and the parking area along Tenth Avenue. No tonal lineaments suggestive of active faulting were observed transecting the site in the pre-development photographs reviewed.

4 PROJECT DESCRIPTION

Based on our review of preliminary plans for the project (DLM/HED, 2017), the proposed improvements will consist of a new two-story classroom building, library, and parking lot (Figure 2). The new classroom building will have a footprint of about 17,000 square feet, while the new library will be about 3,400 square feet. Both structures will be constructed at or near the existing grades. The new parking lot will be located at the northeast corner of the campus.

5 PREVIOUS SITE EVALUATION

Ninyo & Moore previously prepared a geotechnical evaluation report (Ninyo & Moore, 2017) for the campus. Our work included a subsurface exploration, laboratory testing, engineering analysis, and recommendations for the design and construction of a lunch shelter in the southern portion of the campus. The subsurface exploration consisted of two solid-stem auger borings, B-1 and B-2, advanced to depths of about 16½ and 8½ feet below the existing grade, respectively. The approximate locations of the borings are shown on Figure 2 and detailed logs of the borings are presented in Appendix A. Fill was encountered from the ground surface to a depth of about 3 feet in Boring B-1 and a depth of about 2½ feet in Boring B-2. Alluvial deposits were encountered in Borings B-1 and B-2 from below the fill to the depths explored. Laboratory testing of soil samples recovered from the borings included tests to evaluate in-situ moisture content and dry density, Atterberg limits, unconfined compressive strength, and soil corrosivity. The results of the laboratory tests are presented in Appendix D.

6 FIELD EXPLORATION AND LABORATORY TESTING

Our field exploration for this study included a site reconnaissance and subsurface exploration conducted on January 4, 2018 and January 5, 2018. The subsurface exploration consisted of three hollow-stem auger borings, two hand-auger borings, and three CPT soundings. The approximate exploration locations are shown on Figure 2.

The hollow-stem auger borings were advanced to a depth of about 25 feet below the existing grade. Borings B-3 and B-5 were drilled through existing asphalt pavement, while Boring B-4 was drilled on existing soil. Borings B-6 and B-7 were advanced using handheld drilling equipment to depths of 5 and 3 feet, respectively. A representative of Ninyo & Moore logged the subsurface conditions exposed in the borings and collected relatively undisturbed and bulk soil samples from the borings. The samples were then transported to our geotechnical laboratory for testing. The borings were backfilled with grout after excavation in accordance with the boring permit. Descriptions of the subsurface materials encountered are presented in the following sections. Detailed logs of the borings are presented in Appendix A.

The CPT soundings were performed on January 5, 2018 using a truck-mounted rig with a 20-ton reaction capacity. The soundings were advanced to depths of 50 and 65 feet below the existing grade. Cone tip resistance, sleeve friction, and pore pressure were electronically measured and recorded at vertical intervals of approximately 2 inches while the cone was advanced. The soil behavior type index (I_c) and corresponding soil behavior for the subsurface materials encountered was assessed using correlations (Robertson & Campanella, 1986) based on the cone penetration data and sleeve friction. The CPT sounding logs are presented in Appendix B.

Laboratory testing of soil samples recovered from the borings included tests to evaluate in-situ soil moisture content and dry density, grain size distribution, Atterberg limits, expansion index, consolidation characteristics, unconfined compressive strength, soil corrosivity, and R-value. The results of the in-situ moisture content and dry density tests are presented on the boring logs in Appendix A, and the results of the other laboratory tests are presented in Appendix C. Laboratory test results from our previous lunch shelter evaluation are presented in Appendix D.

A percolation test was performed on January 4, 2018 at the location shown on Figure 2. The percolation test results and procedures utilized are presented in Appendix E. The test hole was backfilled with the soil cuttings shortly after completion.

A seismic survey using passive surface wave techniques was performed at the site on January 5, 2018. The purpose of the study was to characterize the shear wave velocity of the subsurface materials at the site. The passive source method included refraction micro-tremor array

measurements (ReMi) and consisted of a singular line of seismic data collection. The location of the seismic survey line is noted on Figure 2. The method provided a shear wave (S-wave) velocity profile to a depth of approximately 100 feet below the ground surface and Vs 100 for seismic site classification (CBSC, 2016). The seismic study results are provided in Appendix F, along with a summary of the field methods and analytical procedures utilized.

7 GEOLOGIC AND SUBSURFACE CONDITIONS

Our findings regarding regional geologic setting, site geology, subsurface stratigraphy, and groundwater conditions at the subject site are provided in the following sections.

7.1 Regional Geologic Setting

The campus is located west of San Francisco Bay in the Coast Ranges geomorphic province of California. The Coast Ranges are comprised of several mountain ranges and structural valleys formed by tectonic processes commonly found around the Circum-Pacific belt. Basement rocks have been sheared, faulted, metamorphosed, and uplifted, and are separated by thick blankets of Cretaceous and Cenozoic sediments that fill structural valleys and line continental margins. The San Francisco Bay Area has several ranges that trend northwest, parallel to major strike-slip faults such as the San Andreas, Hayward, and Calaveras (Figure 3). Major tectonic activity associated with these and other faults within this regional tectonic framework consists primarily of right-lateral, strike-slip movement.

7.2 Site Geology

A regional geologic map prepared by Brabb et al. (1998 and 2000) indicates that the campus is underlain by Holocene age alluvial basin deposits (Figure 4). These deposits typically consist of layers of silt and clay with discontinuous lenses of sand, and occur along the distal edges of alluvial fans and adjacent to deposits of bay mud.

7.3 Subsurface Conditions

The following sections provide a generalized description of the geologic units encountered during our subsurface evaluation. More detailed descriptions are presented on the logs in Appendix A. Cross sections depicting our interpretation of the subsurface conditions are presented as Figure 5 and Figure 6.

7.3.1 Pavement and Fill

The pavement section encountered in Borings B-3 and B-5 consisted of 12 inches and 6 inches of asphaltic concrete (AC), respectively. Fill was encountered in the borings from beneath the pavement section or ground surface to depths of 1½ to 3 feet below the ground

surface. As encountered, the fill generally consisted of gray, moist to wet, stiff to very stiff, lean clay; and brown, moist, medium dense, clayey sand with gravel.

7.3.2 Alluvium

Alluvium was encountered in the borings and CPT soundings from beneath the fill to the depths explored. As encountered, the alluvium generally consisted of gray and light brown, moist to wet, stiff to hard, lean and fat clay; and gray, wet, dense, sand with clay. Sand layers were also encountered in CPT-1, CPT-2, and CPT-3 at 13 feet, 37 feet, and 43 feet, respectively.

7.4 Groundwater

Groundwater was encountered in Borings B-3, B-4, and B-5 at depths of about 13 to 13½ feet. Groundwater was measured in CPT-3 at a depth of about 8 feet. The historical high groundwater level for the site is approximately 11 feet, according to the CGS (2006) seismic hazard report for the Palo Alto 7½ minute quadrangle.

Fluctuations in the groundwater level across the site and over time may occur due to seasonal precipitation, variations in topography or subsurface hydrogeologic conditions, or as a result of changes to nearby irrigation practices or groundwater pumping. In addition, seeps may be encountered at elevations above the observed groundwater levels due to perched groundwater conditions, leaking pipes, preferential drainage, or other factors not evident at the time of our exploration.

8 GEOLOGIC HAZARDS AND CONSIDERATIONS

This study considered a number of issues relevant to the proposed construction, including seismic hazards, flood hazards, landsliding and slope stability, naturally occurring asbestos, settlement of compressible soil layers from static loading, unsuitable materials, excavation characteristics, soil corrosivity, expansive soils, and infiltration characteristics. These issues are discussed in the following subsections.

8.1 Seismic Hazards

The seismic hazards considered in this study include the potential for ground rupture due to faulting, seismic ground shaking, liquefaction, dynamic settlement, seismic slope stability, and tsunamis and seiche. These potential hazards are discussed in the following subsections.

8.1.1 Historical Seismicity

The site is located in a seismically active region. Figure 3 presents the location of the site relative to the epicenters of historic earthquakes with magnitudes of 5.5 or more from 1800

to 2000. Records of historic ground effects related to seismic activity (e.g. liquefaction, sand boils, lateral spreading, ground cracking) compiled by Knudsen et al. (2000), indicate that no ground effects related to historic seismic activity have been reported for the site vicinity.

8.1.2 Faulting and Ground Surface Rupture

There are numerous recognized faults in northern California. Selected characteristics, as evaluated by the 2007 Working Group on California Earthquake Probabilities (WGCEP, 2008), for recognized and postulated faults (Caltrans, 2017) near the site are presented in Table 1. The fault characteristics in the table are presented in order of decreasing peak ground acceleration (PGA) based on a deterministic seismic hazard analysis utilizing the Chiou & Youngs (2008) and Campbell & Bozorgnia (2008) attenuation relationships.

Table 1 – Parameters for Nearby Faults

Fault	ID	Type	Max Moment Magnitude	Distance to Site (kilometers)
San Andreas (Peninsula)	134	Strike Slip	8	9.3
San Andreas (Santa Cruz Mtns)	158	Strike Slip	8	24.3
Cascade	153	Reverse	6.7	12.9
Silver Creek	148	Strike Slip	6.9	15.4
Hayward (South)	137	Strike Slip	7.3	21.0
Monte Vista-Shannon	154	Reverse	6.4	11.1
San Gregorio (San Gregorio)	127	Strike Slip	7.4	23.4
San Andreas (North Coast)	80	Strike Slip	8	51.6
Hayward (North)	123	Strike Slip	7.3	29.4
Hayward (Southern Extension)	149	Strike Slip	6.7	25.0

The site is not located within an Alquist-Priolo Earthquake Fault Zone established by the state geologist (CGS, 2007 and 2018) to delineate regions of potential ground surface rupture adjacent to active faults. As defined by the California Geological Survey (CGS), active faults are faults that have caused surface displacement within Holocene time, or within approximately the last 11,000 years (CGS, 2007). The closest fault rupture hazard zone is the one associated with the San Andreas Fault, which is located 5¾ miles southwest of the site.

8.1.3 Strong Ground Motion

Based on historic activity, the potential for future strong ground motion at the site is considered significant. Seismic design criteria to address ground shaking are provided in Section 10.2. The peak ground acceleration (PGA) associated with the Maximum Considered Earthquake Geometric Mean (MCE_G) was calculated in accordance with the

American Society of Civil Engineers (ASCE) 7-10 Standard and the 2016 California Building Code (CBC). A site-specific ground motion hazard analysis was performed in accordance with Section 21.5 of ASCE 7-10 to evaluate the MCE_G peak ground acceleration. The results of our site-specific ground motion hazard analysis indicate that the MCEG peak ground acceleration with adjustment for site class effects (PGA_M) is 0.606g. The assumptions and models utilized for this analysis are listed on Figure 8 and the calculations are presented in Appendix G.

8.1.4 Liquefaction and Strain Softening

The strong vibratory motions generated by earthquakes can trigger a rapid loss of shear strength in saturated, loose, granular soils of low plasticity (liquefaction) or in wet, sensitive, cohesive soils (strain softening). Liquefaction and strain softening can result in a loss of foundation bearing capacity or lateral spreading of sloping or unconfined ground. Liquefaction can also generate sand boils leading to subsidence at the ground surface. Liquefaction (or strain softening) is generally not a concern at depths more than 50 feet below ground surface. The site is located within a State of California (CGS, 2006) liquefaction hazard zone as depicted in Figure 7.

We encountered deposits of sand and fine-grained soil of low plasticity below the groundwater level during our subsurface exploration. We evaluated the potential for liquefaction using in-house developed spreadsheets developed in accordance with the methods presented by Idriss and Boulanger (2008) using the CPT data collected during our subsurface exploration, a design groundwater level of 8 feet below the ground surface, and considering a seismic event producing a PGA of 0.606g resulting from a Magnitude 8.0 earthquake. The results of our analysis, presented in Appendix G, indicate that thin layers of sandy soil below the assumed design groundwater level will liquefy under the considered ground motion based on a factor of safety against liquefaction of less than one. However, due to the depth and relative thickness (layer thicknesses of about 1 foot or less per location) of the liquefiable layers, we do not regard the potential for liquefaction-induced reduction in the bearing capacity of shallow foundations as a design consideration for the project. Other consequences of liquefaction, including dynamic settlement, sand-boil-induced ground subsidence, and lateral spreading are addressed in the following sections.

Estimates of undrained and remolded shear strength based on CPT tip resistance and sleeve friction, respectively, indicate that the cohesive soils during our subsurface exploration are not particularly sensitive. As such, we do not regard seismically induced strain-softening behavior as a design consideration.

8.1.5 Dynamic Settlement

The strong vibratory motion associated with earthquakes can also dynamically compact loose granular soil leading to surficial settlements. Dynamic settlement is not limited to the near surface environment and may occur in both dry and saturated sand and silt. Cohesive soil is not typically susceptible to dynamic settlement.

We evaluated the potential for dynamic settlement for layers with factor of safety against liquefaction of 1.3 or less using the CPT data collected during our subsurface exploration and an in-house developed spreadsheet program based on the method presented by Zhang et al. (2002) for saturated soil and by Robertson and Shao (2010) for dry soil. Our analysis considered a Magnitude 8.0 earthquake producing a PGA of 0.606g and groundwater level 8 feet below the ground surface. The results of our analyses, presented in Appendix G, indicate that the total dynamic settlement following the considered seismic event will be relatively minor, at approximately ½ inch. Differential dynamic settlement is estimated to be on the order of about ¼ inch over a horizontal distance of approximately 30 feet. Recommendations for shallow footing foundations are provided.

8.1.6 Seismic Slope Stability

The campus is not located within a seismic hazard zone for earthquake-induced landslides (CGS, 2006). The ground surface at the campus is generally flat, and we do not anticipate the construction of significant slopes for future projects. Based on these factors, we do not regard seismic slope stability as a design consideration for this project.

8.1.7 Tsunamis and Seiches

Tsunamis are long wavelength seismic sea waves (long compared to ocean depth) generated by the sudden movements of the ocean floor during submarine earthquakes, landslides, or volcanic activity. The project location is not within a tsunami evacuation area as shown on the Tsunami Evacuation Planning Map for the County of San Mateo (State of California, 2009).

Seiches are waves generated in a large enclosed body of water. Based on the inland location and the lack of large enclosed bodies of water near the site, the potential for damage due to tsunamis or seiches is not a design consideration.

8.2 Flood Hazards

Our review of the FEMA flood hazard map for the area indicates that the campus lies in Zone X, in an area between the 100 and 500 year floodplain (FEMA, 2012).

8.3 Landsliding and Slope Stability

Regional landslide inventory maps (CGS, 2006; Ellen et al., 1997; Wentworth, et al., 1997) indicate that mapped landslides do not underlie the site or the vicinity.

The ground surface at the campus is relatively flat and gently slopes to the southeast. Based on the existing site conditions, we do not regard slope stability or landsliding as design considerations for this project.

8.4 Naturally Occurring Asbestos

According to State of California guidelines established by the California Department of Toxic Substances and Control (2004 and 2005), a Preliminary Environmental Assessment (PEA) is recommended for school sites that are located within a 10-mile radius of any rock formation that may contain naturally occurring asbestos (NOA). The nearest mapped location of ultramafic rock from which NOA may be found is approximately 3½ miles southwest of the school campus (Churchill and Hill, 2000; and Brabb et al., 1998). The campus is underlain by fine grained alluvial soils and located down-gradient of a NOA bearing source. Based on these conditions, the school district should consider conducting a PEA prior to future construction.

8.5 Static Settlement

Building loads were not provided for the new proposed structures. We anticipate that the proposed improvements will be relatively light to moderate, and that significant changes to the site grade are not proposed. We anticipate, therefore, that settlement due to sustained loading by the proposed improvements will be tolerable, provided that those improvements are supported on shallow foundations designed in accordance with the recommendations in this report.

8.6 Unsuitable Materials

Fill materials that were not placed and compacted under the observation of a geotechnical engineer, or fill materials lacking documentation of such observation, are considered undocumented fill. Undocumented fill is unsuitable as a bearing material below foundations due to the potential for differential settlement resulting from variable support characteristics or the potential inclusion of deleterious materials. In the vicinity of the proposed structures, undocumented fill was encountered up to depths of about 2 feet below the ground surface during our subsurface exploration. Recommendations for remedial grading, subgrade preparation and foundation embedment recommendations are provided to mitigate the undocumented fill concerns.

Soil containing roots or other organic matter are not suitable as fill or subgrade material below foundations, pavements, or engineered fill. Recommendations for clearing and grubbing to remove vegetative matter in soil during site preparation are provided.

8.7 Excavation Characteristics

We anticipate that future projects will involve excavations to remove undocumented fill materials and unsuitable surficial soils. We anticipate that heavy earthmoving equipment in good working condition should be able to make the proposed excavations.

Excavations in the fill may encounter obstructions consisting of debris, rubble, abandoned structures, or over-sized materials that may require special handling or demolition equipment for removal.

Near-vertical temporary cuts in the near surface deposits up to 4 feet in depth should remain stable for a limited period of time. However, sloughing of the materials exposed on the excavation sidewall may occur, particularly if the excavation extends near the groundwater level, encounters granular soil, is exposed to water, or if the sidewall is disturbed during construction operations. Excavation subgrade may become unstable if exposed to wet conditions. Recommendations for excavation stabilization are presented. Excavated materials may also be wet and need to be dried out before reuse as fill.

8.8 Corrosive/Deleterious Soil

An evaluation of the corrosivity of the on-site material was conducted to assess the impact to concrete and metals. The corrosion impact was evaluated using the results of limited laboratory testing on samples obtained during our subsurface study. Laboratory testing to quantify pH, resistivity, chloride, and soluble sulfate contents was performed on a sample of the near-surface soil. The results of the corrosivity tests are presented in Appendix C. California Department of Transportation (Caltrans) defines a corrosive environment as an area within 1,000 feet of brackish water, or where the soil contains more than 500 parts per million (ppm) of chlorides, sulfates of 0.2 (2,000 ppm) percent or more, or pH of 5.5 or less (Caltrans, 2012). Based on these criteria, the site does not meet the definition of a corrosive environment. Ferrous metal will still undergo corrosion on site, but special mitigation measures are not needed. The criteria used to evaluate the deleterious nature of soil on concrete and recommendations from the American Concrete Institute (ACI) for sulfate exposure classes are presented in Table 2. Based on these criteria, the soil on site is defined as Exposure Class S0.

Table 2 – Criteria for Deleterious Soil on Concrete			
Sulfate Content Percent by Weight	Exposure Class	Maximum Water to Cement Ratio	Minimum 28-day Compressive Strength
0.0 to 0.1	S0	N/A	2,500
0.1 to 0.2	S1	0.50	4,000
0.2 to 2.0	S2	0.45	4,500
> 2.0	S3	0.45	4,500

Reference: American Concrete Institute (ACI) Committee 318 Table 19.3.1.1 and Table 19.3.2.1 (ACI, 2014)

8.9 Expansive Soils

Some clay minerals undergo volume changes upon wetting or drying. Unsaturated soils containing those minerals will shrink/swell with the removal/addition of water. The heaving pressures associated with this expansion can damage structures and flatwork. Laboratory testing was performed on a select sample of the near-surface soil to evaluate the expansion index. The tests were performed in general accordance with the American Society of Testing and Materials (ASTM) Standard D 4829 (Expansion Index). The results of our laboratory testing indicate that the expansion index of the near-surface soil is 81, which is consistent with a medium expansion characteristic. To reduce the potential for differential movement and distress to the proposed improvements due to shrink/swell behavior, recommendations are provided for remedial grading, foundation embedment depths, and subgrade preparation.

8.10 Infiltration Characteristics

Ninyo & Moore performed percolation testing to further evaluate the rate of infiltration on site for design of storm water management systems. The percolation test procedures utilized are presented in Appendix E. The test results, presented in Appendix E and summarized in Table 3, indicate that the infiltration rate of the near surface soil on site is slow. Due to the variability of subsurface materials encountered during our exploration, variability in subsurface infiltration should be anticipated.

Table 3 – Percolation Test Results				
Test (Boring)	Test Depth (ft)	Subsurface Conditions	Percolation Rate (inch/hour)	Infiltration Rate[1] (inch/hour)
P-1(B-7)	2	Lean Clay	9.0	0.9

[1] Infiltration rate is percolation rate adjusted by a reduction factor to exclude percolation through sides of test hole.

9 CONCLUSIONS

Based on our review of the referenced background data, our site field reconnaissance, subsurface evaluation, and laboratory testing, it is our opinion that proposed construction is feasible from a geotechnical standpoint. Geotechnical considerations include the following:

- Our subsurface exploration encountered undocumented fill and alluvium. Fill was encountered to depths of up to about 2 feet. The fill generally consisted of gray, moist to wet, stiff to very stiff, lean clay; and brown, moist, medium dense, clayey sand with gravel. The alluvium generally consisted of gray and light brown, moist to wet, stiff to hard, lean and fat clay; and gray, wet, dense, sand with clay.

- Undocumented fill and soil containing roots or other organic matter are not suitable as subgrade below foundations, pavements, or engineered fill. Undocumented fill was generally encountered to a depth of about 2 feet below the ground surface in the borings. Recommendations for removal, subgrade preparation, and foundation embedment depth are provided.

- Groundwater was encountered in Borings B-3, B-4, and B-5 at a depth of about 13 feet, and measured in the CPT sounding CPT-3 at a depth of about 8 feet. Variation and fluctuation in groundwater levels should be anticipated as discussed in Section 7.4. The historical high groundwater level for the site is approximately 11 feet, according to the CGS (2006) seismic hazard report for the Palo Alto 7½ minute quadrangle. For engineering analysis, we have assumed a groundwater level of 8 feet below the ground surface.

- The site could experience a relatively large degree of ground shaking during a significant earthquake on a nearby fault. Seismic design criteria are presented in Section 10.2.

- The results of our liquefaction evaluation, presented in Appendix G, indicate that thin layers of sandy soil will liquefy under the considered ground motion. However, due to the depth and relative thickness of the liquefiable layers, we do not regard the potential for liquefaction-induced reduction in the bearing capacity of shallow foundations as a design consideration for the project.

- We do not regard lateral spreading due to liquefaction or sand-boil-induced ground subsidence, as design considerations based on the relatively flat topography of the project site and lack of a free-face condition.

- The results of our dynamic settlement analysis, presented in Appendix G, indicate that a total dynamic settlement of approximately ½ inch will occur due to the assumed ground motion. We estimate that the differential dynamic settlement will be about ¼ inch, over a lateral distance of approximately 30 feet. Recommendations for shallow foundations are provided.

- Tsunamis, seiches, and ground surface rupture due to faulting are not design considerations based on the location of the project.

- Excavations that remain unsupported and exposed to water, or encounter seepage, or granular soil may be unstable and prone to sloughing. Recommendations for excavation stabilization are provided.

- Excavations in the fill may encounter debris, rubble, oversize material, buried objects, or other potential obstructions.

- The site is not in a flood hazard zone.
- Our percolation testing at a depth of 2 feet below the existing grade indicates that the infiltration rate of the near-surface soils is slow.
- Naturally occurring asbestos (NOA) in the natural soils may be present, based on the nearest mapped location of ultramafic rock and the surrounding geomorphic conditions. The school district should consider conducting a PEA prior to excavation of foundations and grading of the proposed parking area.
- Static settlement should be tolerable for the proposed improvements, provided that the proposed structures are supported on foundations that conform with our recommendations and fill placement to raise grades is less than 2 feet in height.
- Based on the results of our limited soil corrosivity tests during this study and Caltrans corrosion guidelines (2012), the site does not meet the definition of a corrosive environment.
- Expansion Index testing indicates that the near-surface soil on site has a medium expansion characteristic. Recommendations are provided for remedial grading, foundation embedment depths, and subgrade preparation to reduce the potential for expansive soil movement below proposed improvements.

10 RECOMMENDATIONS

The following sections present our geotechnical recommendations for the design and construction of the proposed improvements. The project improvements should be designed and constructed in accordance with these recommendations, applicable codes, and appropriate construction practices.

10.1 Earthwork

The earthwork should be conducted in accordance with the relevant grading ordinances having jurisdiction and the following recommendations. The geotechnical engineer should observe earthwork operations. Evaluations performed by the geotechnical engineer during the course of field operations may result in new recommendations, which could supersede the recommendations in this section.

10.1.1 Pre-Construction Conference

We recommend that a pre-construction conference be held to discuss the grading recommendations presented in the report. The owner and/or their representative, the architect, the engineer, Ninyo & Moore, and the contractor should be in attendance to discuss project schedule and earthwork requirements.

10.1.2 Site Preparation

Site preparation should begin with the removal of vegetation, utility lines, debris and other deleterious materials from areas to be graded. Tree stumps and roots should be removed to such a depth that organic material is generally not present. Clearing and grubbing should extend to the outside of the proposed excavation and fill areas. Rubble and excavated materials that do not meet criteria for use as fill should be disposed of in an appropriate landfill. Existing utilities to be abandoned should be removed, crushed in place, or backfilled with grout.

Excavations resulting from removal of buried utilities, tree stumps, or obstructions should be backfilled with compacted fill, in accordance with the recommendations in the following sections.

10.1.3 Subgrade Observations

Prior to placement of fill, erection of forms or placement of reinforcement for foundations, the client should request an evaluation of the exposed subgrade by Ninyo & Moore. Materials that are considered unsuitable shall be excavated under the observation of the geotechnical engineer in accordance with the recommendations in this section or the field recommendations of the geotechnical engineer.

Unsuitable materials include, but may not be limited to dry, loose, soft, wet, expansive, organic, or compressible natural soil; and undocumented or otherwise deleterious fill materials. Unsuitable materials should be removed from trench bottoms and below bearing surfaces to a depth at which suitable foundation subgrade, as evaluated in the field by the geotechnical engineer, is exposed.

10.1.4 Remedial Grading for Site Improvements

Laboratory testing indicates that the near-surface soil on site has medium expansion characteristics. To reduce the potential for differential movement and distress to the proposed improvements due to shrink/swell behavior, a zone of material with low expansion potential should be created by removing the existing soil, as-needed, and placing fill with low expansion characteristics below building slabs-on-grade, flatwork, and pavement. The zone of low expansion fill should consist of select, low-expansion import fill conforming with Section 10.1.5. Alternatively, the on-site soil may be chemically treated by mixing the soil with lime as described in Section 10.1.6 to reduce the expansion characteristic and create the zone of low-expansion material.

The lateral limits of overexcavations or chemical treatment should extend a distance of 5 feet or more beyond the limits of the slab-on-grade and 2 feet or more beyond the limits of the flatwork or pavement. The zone of low expansion material should extend to a depth of 18 inches below building slabs-on-grade; and 12 inches below exterior flatwork and pavements. The aggregate base or capillary break gravel under building slabs, exterior flatwork, or pavements may be considered as part of the zone of low expansion material. The zone of exclusion/removal or lime treatment should be detailed on the construction plans to reduce the potential that these recommendations are overlooked during construction bidding.

Undocumented fill was encountered in the borings near the proposed buildings to a depth of about 2 feet below the existing ground surface. Undocumented fill, where encountered, should be removed from below new building footings. Excavations should be backfilled with controlled low strength material (CLSM) as per Section 10.1.5. Alternatively, the footings may be extended to bear on suitable alluvium. The depth of the undocumented fill may vary and extend deeper than observed in the borings. Undocumented fill that can be processed to meet the general criteria in Section 10.1.5 can be re-used as general fill.

10.1.5 Material Recommendations

Materials used during earthwork operations should comply with the requirements listed in Table 4. Materials should be evaluated by the geotechnical engineer for suitability prior to use. The contractor should notify the geotechnical consultant 72 hours prior to import of materials or use of on-site materials to permit time for sampling, testing, and evaluation of the proposed materials. On-site materials may need to be dried out before re-use as fill. The contractor should be responsible for the consistency of import material brought to the site.

Table 4 – Recommended Material Requirements

Material and Use	Source	Requirements[1,2]
Select (Low Expansion) Fill: - below building slabs, pavement, or flatwork	Import	Close-graded with 35 percent or more passing No. 4 sieve and either: Expansion Index of 50 or less, Plasticity Index of 12 or less, or less than 10 percent, by dry weight, passing No. 200 sieve
	On-site borrow	Treated with lime per Section 10.1.6
General Fill: - for uses not otherwise specified	Import	As per Select (Low Expansion) Fill
	On-site borrow	No additional requirements[1]
Controlled Low Strength Material (CLSM)	Import	CSS[4] Section 19-3.02F
Permeable Aggregate - capillary break gravel	Import	Open-graded, clean, compactable crushed rock or angular gravel; nominal size ¾ inch or less
Aggregate Base	Import	Class II; CSS[4] Section 26-1.02
Asphalt Concrete	Import	Type A; CSS[4] Section 39-2
Pipe/Conduit Bedding and Pipe Zone Material -material below pipe invert to 12 inches above pipe	Import	90 to 100 percent (by mass) should pass No. 4 sieve, and 5 percent or less should pass No. 200 sieve
Trench Backfill - above bedding material	Import or on-site borrow	As per general fill and excluding rock/lumps retained on 4-inch sieve or 2-inch sieve in top 12 inches

[1] In general, fill should not consist of pea-gravel and should be free of rocks or lumps in excess of 6-inches diameter, trash, debris, roots, vegetation or other deleterious material.
[2] In general, import fill should be tested or documented to be non-corrosive[3] and free from hazardous materials in concentrations above levels of concern.
[3] Non-corrosive as defined by the Corrosion Guidelines (Caltrans, 2012).
[4] CSS is California Standard Specifications (Caltrans, 2015).

10.1.6 Chemical Treatment

The on-site soil may be chemically treated with quicklime to reduce the expansion characteristic of the soil as an alternative to importing select fill. The on-site soil may be chemically treated with quicklime and cement to improve the subgrade support characteristics for pavements and reduce the quantity of import aggregate base material needed for pavements. The quicklime should conform with ASTM standard C977. The cement used for treatment should conform with ASTM standard C150 for Type II/V or Type V cement.

On-site materials containing roots or other organic matter are not suitable for chemical treatment and should be stripped from the area at which the treatment is to be performed. The chemical treatment should be performed by an experienced contractor that specializes in the chemical treatment of soil. The chemical agent should be proportioned and spread with a mechanical spreader and mixed into the soil on a mixing table, or in place to produce consistent distribution of the agent within the treated layer. The depth of mixing should not exceed 18 inches per lift or the capacity of the mixer if less. Precautions to reduce the potential for dusting of quicklime or cement, such as scheduling or suspending operations to avoid windy weather, should be taken. Casting or tailgating of the chemical agent should not be permitted. The mixer should be equipped with a rotary cutting/mixing assembly, grade checker, and an automatic water distribution system. Mixing or spreading operations should not be performed during inclement weather or when the ambient temperature is less than 35 degrees Fahrenheit or during foggy or rainy weather. Adjacent passes of the mixer should overlap by 4 inches or more.

To reduce the expansive soil characteristic, quicklime should be mixed into the soil at a rate of 3 percent or more by dry weight of soil. Mixing and pulverizing should continue until the treated soil does not contain untreated soil clods larger than 1 inch, and the quantity of untreated soil clods retained on the No. 4 sieve is less than 40 percent of the dry soil mass. Water should be added as-needed during the mixing process to achieve moisture content above the optimum, as evaluated by ASTM D1557, for the lime-soil mixture. The lime-soil mixture should be re-mixed following a 16-hour mellowing period after the initial mixing. The lime-soil mixture should be compacted within 3 days after initial mixing to achieve 95 percent of the reference density as evaluated by ASTM D1557 on a wet density basis.

To improve the subgrade support characteristics, quicklime should be mixed into the soil as described above. Following the 16-hour mellowing period after the initial mixing, cement should be mixed into the soil at a rate of 3 percent or more by dry weight of soil. The moisture content of the soil should not exceed the optimum moisture content of the material, as evaluated by ASTM D1557, when the cement is spread and initially mixed. The subgrade should be mixed and aerated as-needed to reduce the moisture content. If additional water is needed to achieve the optimum moisture, the water should be added during a re-mixing operation after the cement has been initially mixed into the subgrade so as to reduce the potential for the formation of cement balls when water is applied. The cement-treated soil should be compacted within 2 hours of initial mixing to achieve 95 percent of the reference density as evaluated by ASTM D1557 on a wet density basis. Vehicular traffic and heavy construction equipment should not be allowed on the treated

material for a 1 hour period after compaction. The cement-treated material should be maintained in a moist condition for a 7-day curing period by routinely sprinkling water, covering the treated material with moist straw, or placing fill over the treated subgrade. Treated subgrade for pavements should be proof-rolled with a loaded water truck to check for yielding conditions. Mitigation of yielding areas by pulverizing and re-mixing with additional stabilizing agent should be anticipated.

10.1.7 Subgrade Preparation

Subgrade in trenches and below slabs, footings, flatwork, or fill, should be prepared as per the recommendations in Table 5. Prepared subgrade should be maintained in a moist (but not saturated) condition by the periodic sprinkling of water prior to placement of additional overlying fill or construction of footings and slabs.

Table 5 – Subgrade Preparation Recommendations

Subgrade Location	Preparation Recommendations
Below Footings	• Check for unsuitable materials and remove as-needed per Sections 10.1.2 and 10.1.3. Replace overexcavated soil with CLSM or extend footing as-needed. • Scarify and moisture condition exposed subgrade as-needed to achieve a moisture content 2 points or more above the optimum as evaluated by ASTM D1557. Compact moisture-conditioned subgrade per Section 10.1.8. • Keep in moist condition by sprinkling water.
Below Slabs and Flatwork	• After clearing and grubbing per Section 10.1.2, check for unsuitable materials as per Section 10.1.3. • Perform remedial grading as per Section 10.1.4. Scarify 8 inches then moisture condition and compact as per Section 10.1.8 if in-place lime treatment is not performed. • Keep in moist condition by sprinkling water.
Below Fill	• After clearing and grubbing per Section 10.1.2, check for unsuitable materials as per Section 10.1.3. • Scarify 8 inches then moisture condition and compact as per Section 10.1.8. • Keep in moist condition by sprinkling water.
Below Pavement	• After clearing and grubbing per Section 10.1.2, check for unsuitable materials as per Section 10.1.3. • Perform remedial grading as per Section 10.1.4. Scarify 8 inches then moisture condition and compact as per Section 10.1.8 if in-place lime treatment is not performed. • Proof roll compacted subgrade with loaded water truck under the observation of the geotechnical engineer. Mitigate yielding areas in accordance with the recommendations of the engineer. • Keep in moist condition by sprinkling water.
Utility Trenches	• After clearing per Section 10.1.2, check for unsuitable materials as per Section 10.1.3. • Remove or compact loose/soft material.

Subgrade that has been permitted to dry out and loosen or develop desiccation cracking, should be scarified, moisture-conditioned, and recompacted as per the requirements above. A thin layer (approximately 3 inches) of lean concrete or controlled low strength material (CLSM) may be poured over prepared subgrade for footings or slabs to maintain the appropriate moisture condition during erections of forms and placement of reinforcing steel.

10.1.8 Fill Placement and Compaction

Fill and backfill should be compacted in horizontal lifts in conformance with the recommendations presented in Table 6. The allowable uncompacted thickness of each lift of fill depends on the type of compaction equipment utilized, but generally should not exceed 8 inches in loose thickness.

Table 6 – Fill Placement and Compaction Recommendations			
Fill Type	**Location**	**Compacted Density[1]**	**Moisture Content[2]**
Subgrade	Below pavement (within 2 feet of finished grade)	95 percent	+ 2 percent or above
	In locations not already specified	90 percent	+ 2 percent or above
Bedding and Pipe Zone Fill	Material below invert to 12 inches above pipe or conduit	90 percent	Near Optimum
Trench Backfill	Below pavement (within 2 feet of finished grade)	95 percent	+ 2 percent or above
	In locations not already specified	90 percent	+ 2 percent or above
Select or General Fill (not lime-treated)	Below pavement (within 2 feet of finished grade)	95 percent	+ 2 percent or above
	In locations not already specified	90 percent	+ 2 percent or above
Lime-or cement-treated subgrade or fill	In locations not already specified	95 percent	+ 2 percent or above
Aggregate Base	Pavement section or below hardscape	95 percent	Near Optimum
Asphalt Concrete	Pavement section	91 to 97 percent	Not Applicable

Notes:

1 Expressed as percent relative compaction or ratio of field density to reference density (typically on a dry density basis for soil and aggregate and on a wet density basis for asphalt concrete and lime treated subgrade). The reference density of soil, lime-treated subgrade, and aggregate should be evaluated by ASTM D 1557. The reference density of asphalt concrete should be evaluated by ASTM D 2041.

2 Target moisture content at compaction relative to the optimum as evaluated by ASTM D 1557.

Compacted fill should be maintained in a moist (but not saturated) condition by the periodic sprinkling of water prior to placement of additional overlying fill or construction of footings and slabs. Fill that has been permitted to dry out and loosen or develop desiccation cracking should be scarified, moisture conditioned, and recompacted as per the requirements above.

10.1.9 Excavation Stabilization

Excavations, including foundation and utility excavations, should be stabilized by shoring sidewalls or laying slopes back in accordance with the Excavation Rules and Regulations (29 Code of Federal Regulations [CFR], Part 1926) stipulated by the Occupational Safety and Health Administration (OSHA). Table 7 lists the OSHA material type classifications and corresponding allowable temporary slope layback inclinations for soil deposits that may be

encountered on site. Alternatively, a shoring system conforming to the OSHA Excavation Rules and Regulations (29 CFR Part 1926) may be used to stabilize excavation sidewalls during construction. The lateral earth pressures listed in Table 7 may be used to design or select an internally-braced shoring system or trench shield conforming to the OSHA guidelines. Our recommendations for lateral earth pressures and allowable slope gradients are based upon the limited subsurface data provided by our exploratory borings and reflect the influence of the environmental conditions that existed at the time of our exploration. Excavation stability, material classifications, allowable slopes, and shoring pressures should be re-evaluated and revised, as-needed, during construction. Excavations, shoring systems and the surrounding areas should be evaluated daily by a competent person for indications of possible instability or collapse. Dewatering pits or sumps should be used to depress the groundwater level (if encountered) below the bottom of the excavation.

Table 7 – OSHA Material Classifications and Allowable Slopes

Formation	OSHA Classification	Allowable Temporary Slope[1,2,3]	Lateral Earth Pressure on Shoring[4] (psf)
Cohesive Fill & Alluvium (above groundwater)	Type B	1h:1v (45°)	45×D + 72
Granular Fill & Alluvium (above groundwater)	Type C	1½ h:1v (34°)	80×D + 72

Notes:

1 Allowable slope for excavations less than 20 feet deep. Excavation sidewalls in cohesive soil may be benched to meet the allowable slope criteria (measured from the bottom edge of the excavation). The allowable bench height is 4 feet. The bench at the bottom of the excavation may protrude above the allowable slope criteria.
2 In layered soil, layers shall not be sloped steeper than the layer below.
3 Temporary excavations less than 5 feet deep may be made with vertical side slopes and remain unshored if judged to be stable by a competent person (29 CFR, Part 1926.650).
4 'D' is depth of excavation for excavations up to 20 feet deep. Includes a surface surcharge equivalent to two feet of soil.

The shoring system should be designed or selected by a suitably qualified individual or specialty subcontractor. The shoring parameters presented in this report are preliminary design criteria, and the designer should evaluate the adequacy of these parameters and make appropriate modifications for their design. We recommend that the contractor take appropriate measures to protect workers. OSHA requirements pertaining to worker safety should be observed.

Excavations made in close proximity to existing structures may undermine the foundation of those structures and/or cause soil movement related distress to the existing structures. Stabilization techniques for excavations in close proximity to existing structures will need to account for the additional loads imposed on the shoring system and appropriate setback

distances for temporary slopes. The geotechnical engineer should be consulted for additional recommendations if the proposed excavations cross below a plane extending down and away from the foundation bearing surfaces of the adjacent structure at an angle of 2:1 (horizontal to vertical) from the bottom edge of the footing, or if the proposed excavation is less than 18 inches from the face of the footing.

The excavation bottoms may become unstable and subject to pumping under heavy equipment loads if the excavation subgrade is exposed to water. The contractor should be prepared to stabilize the bottom of the excavations. In general, unstable bottom conditions may be mitigated by scarifying the subgrade and aerating the soil to achieve a moisture content near the optimum, dewatering to depress groundwater levels below the bottom of the excavation, overexcavating to a suitable depth and replacing the wet material with suitable fill, compacting a layer of crushed rock fill into the subgrade, or using geogrid to stabilize additional fill. Specific recommendations for excavation stabilization will be influenced by the nature of the excavation and the conditions encountered during construction.

10.1.10 Construction Dewatering

Water intrusion into the excavations may occur as a result of groundwater seepage or surface runoff. The contractor should be prepared to take appropriate dewatering measures in the event that water intrudes into the excavations. Sump pits, trenches, or similar measures should be used to depress the water level below the bottom of the excavation. Considerations for construction dewatering should include anticipated drawdown, volume of pumping, potential for settlement, and groundwater discharge. Disposal of groundwater should be performed in accordance with the guidelines of the Regional Water Quality Control Board.

10.1.11 Utility Trenches

Trenches constructed for the installation of underground utilities should be stabilized in accordance with our recommendations in Section 10.1.9. Utility trenches should be backfilled with materials that conform to our recommendations in Section 10.1.5. Trench backfill, bedding, and pipe zone fill should be compacted in accordance with Section 10.1.8 of this report. Bedding and pipe zone fill should be shoveled under pipe haunches and compacted by manual or mechanical, hand-held tampers. Trench backfill should be compacted by mechanical means. Densification of trench backfill by flooding or jetting should not be permitted.

To reduce potential for moisture intrusion into the building envelope, we recommend plugging utility trenches at locations where the trench excavations cross under the building perimeter. The trench plug should be constructed of a compacted, fine-grained, cohesive soil that fills the cross-sectional area of the trench for a distance equivalent to the depth of the excavation. Alternatively, the plug may be constructed of concrete or CLSM.

10.1.12 Rainy Weather Considerations

We recommend that the construction be performed during the period between approximately April 15 and October 15 to avoid the rainy season. In the event that grading is performed during the rainy season, the plans for the project should be supplemented to include a stormwater management plan prepared in accordance with the requirements of the relevant agency having jurisdiction. The plan should include details of measures to protect the subject property and adjoining off-site properties from damage by erosion, flooding or the deposition of mud, debris, or construction-related pollutants, which may originate from the site or result from the grading operation. The protective measures should be installed by the commencement of grading, or prior to the start of the rainy season. The protective measures should be maintained in good working order unless the project drainage system is installed by that date and approval has been granted by the building official to remove the temporary devices.

In addition, construction activities performed during rainy weather may impact the stability of excavation subgrade and exposed ground. Temporary swales should be constructed to divert surface runoff away from excavations and slopes. Steep temporary slopes should be covered with plastic sheeting during significant rains. The geotechnical consultant should be consulted for recommendations to stabilize the site as-needed. A thin layer (approximately 3 inches) of lean concrete or CLSM may be poured over prepared subgrade for footings or slabs to maintain the appropriate moisture condition during erections of forms and placement of reinforcing steel.

10.2 Seismic Design Criteria

A site-specific ground motion analysis was performed in accordance Section 1616A.1.3 of the 2016 California Building Code (CBC). The analysis was based on the procedure in Chapter 21 of the American Society of Civil Engineers (ASCE) 7-10 Standard. The design response spectrum based on the site-specific ground motion analysis is presented on Figure 8 and the corresponding seismic design criteria are summarized in Table 8. The spectral ordinates and seismic coefficients based on the mapped values of the risk-targeted spectral response

acceleration, consistent with Section 11.4 of ASCE 7-10, are presented in the table for comparison.

Table 8 – 2016 California Building Code Seismic Design Criteria

Seismic Design Parameter Evaluated for 37.4810° North Latitude, 122.1937°West Longitude	Site Specific	Section 11.4 ASCE 7-10
Site Class	D	D
Site Coefficient, Fa	---	1.0
Site Coefficient, Fv	---	1.5
Mapped M_{CER} Spectral Response Acceleration at 0.2-second period, S_S	---	1.517g
Mapped M_{CER} Spectral Response Acceleration at 1.0-second period, S_1	---	0.692g
Site-Adjusted M_{CER} Spectral Acceleration at 0.2-second period, S_{MS}	1.500	1.517g
Site-Adjusted M_{CER} Spectral Acceleration at 1.0-second period, S_{M1}	1.985	1.039g
Design Spectral Response Acceleration at 0.2-second Period, S_{DS}	1.000	1.012g
Design Spectral Response Acceleration at 1.0-second Period, S_{D1}	1.323	0.692g
Seismic Design Category for Risk Category I, II, or III	E	E

10.3 Foundation Recommendations

New buildings may be supported on spread footings with slab-on-grade floors. Foundations should be designed in accordance with structural considerations and the following recommendations. In addition, requirements of the appropriate governing jurisdictions and applicable building codes should be considered in design of the structures.

10.3.1 Spread Footings

Footings bearing on alluvium or new engineered fill with subgrade prepared in accordance with the recommendations in Section 10.1.7 may be designed using the criteria listed in Table 9. The geotechnical engineer should observe the footing excavations to evaluate bearing materials and subgrade condition before the exposed subgrade is covered.

Table 9 – Recommended Bearing Design Parameters for Footings					
Footing	**Sustained Loads**	**Footing Widths[1]**	**Bearing Depth[2]**	**Allowable Bearing Capacity[3]**	**Static Settlement[4]**
Wall Footing	5 kips/foot or less	1½ feet or more	2 feet or more	2,000 psf	1 inch total ½ inch differential over 30 feet
Column Footing	40 kips or less	2 feet or more	2 feet or more	2,500 psf	1 inch total ½ inch differential over 30 feet
	100 kips	6 feet or more	2 feet or more	2,500 psf	1½ inch total ¾ inch differential over 30 feet
	250 kips	10 feet or more	2 feet or more	2,500 psf	2 inch total 1 inch differential over 30 feet

Notes:
[1] Assumes square footing shape.
[2] Below the adjacent finish grade and the existing grade.
[3] Net allowable bearing capacity in pounds per square foot. Listed value includes a Factor of Safety of 3 or more. Allowable bearing capacity may be increased by one-third when considering loads of short duration such as wind or seismic loads.
[4] Based on sustained long-term loading conditions. Assumes that if footing width is increased from that shown in table, sustained load is equal to or less than value shown for each case.
[5] Designer can interpolate between the values presented in the Table. For example, for a sustained load of 70 kips, footing width should be 4 feet or more, bearing depth 2 feet or more, allowable bearing pressure should be 2,500 psf, and static settlement should be anticipated to be 1¼ inch total.

Footing settlement due to static loads may be further evaluated using a modulus of subgrade reaction. Recommended values for the modulus of subgrade reaction are provided in Table 10. The designer may interpolate between the values in the table for intermediate footing widths.

Table 10 – Footing Modulus of Subgrade Reaction					
Footing[1]	**Footing Width**				
	1½ feet	**2 feet**	**3 feet**	**4 feet**	**5 feet**
Wall Footing	104 pci	74 pci	46 pci	33 pci	26 pci
Column Footing[2]	---	143 pci	88 pci	63 pci	49 pci

Notes:
[1] Assumes bearing depth of 24 inches below adjacent finish grade.
[2] Assumes square footing shape for columns
[3] Modulus of Subgrade Reaction in units of pounds per cubic inch.

Structures supported on footings consistent with these recommendations should be designed for the total and differential settlements listed in Table 9 for sustained loads, plus an additional ½ inch of total dynamic settlement with a differential dynamic settlement of about ¼ inch over a lateral span of 30 feet.

The spread footings should be reinforced with deformed steel bars as detailed by the project structural engineer. Where footings are located adjacent to utility trenches or other excavations, the footing bearing surfaces should bear below an imaginary plane extending upward from the bottom edge of the adjacent trench/excavation at a 2:1 (horizontal to vertical) angle above the bottom edge of the footing. Footings should be deepened or excavation depths reduced as-needed.

A friction coefficient of 0.30 may be assumed for evaluating frictional resistance to lateral loads. A lateral bearing pressure of 300 psf per foot of depth up to 3,000 psf may be used to evaluate the resistance of footings to lateral loads for level ground conditions. The lateral bearing pressure should be neglected to a depth of 1 foot where the ground adjacent to the foundation is not covered by a slab or pavement. The lateral resistance can be taken as the sum of the frictional resistance and passive resistance, provided the passive resistance does not exceed one-half of the total allowable resistance. The friction coefficient and passive lateral bearing pressure should be considered ultimate values. The lateral bearing pressure may be increased by one-third when considering loads of short duration, such as wind or seismic forces.

The weight of the material above a plane rising up and away from the bottom edges of the footings at 20 degrees off plumb may be considered, along with the weight of the footing and the material over the footing, when evaluating footing resistance to uplift. A unit weight of 115 pounds per cubic foot (pcf) for soil or aggregate and 150 pcf for normal weight concrete may be assumed for this evaluation.

10.3.2 Slabs-on-Grade

Building floor slabs should be designed by the project structural engineer, based on the anticipated loading conditions. The subgrade should be prepared in accordance with Section 10.1.7. Where a vapor regarding system is not used, slabs should be constructed on 6 inches, or more, of aggregate base conforming to Section 10.1.5 and placed in accordance with Section 10.1.8. The slab should be reinforced with deformed steel bars. We recommend that masonry briquettes or plastic chairs be used to aid in the correct placement of slab reinforcement in the upper half of the slab. Refer to Section 10.5 for the

recommended concrete cover over reinforcing steel. A vapor retarder is recommended in areas where moisture-sensitive floor coverings or conditioned environments are anticipated. See Section 10.6 for vapor retarding system recommendations. Joints consistent with ACI guidelines (ACI, 2016) may be constructed at periodic intervals to reduce the potential for random cracking of the slab.

10.4 Pavements and Flatwork

Recommendations for asphalt pavement and exterior flatwork are presented in the following sections. The pavement subgrade should be observed by the geotechnical engineer during grading to check that the exposed materials are consistent with the findings from our subsurface exploration and the support characteristics assumed for pavement design. Additional R-value testing may be needed, based on these observations, with subsequent revision to the pavement sections. Recommendations for preparation of subgrade are presented in Section 10.1.7.

Pavement sections were evaluated for a range of traffic indexes or loading conditions. The designer may interpolate between the values provided once a traffic index or loading condition has been selected.

10.4.1 Asphalt Pavement

Ninyo & Moore conducted an analysis to evaluate appropriate asphalt pavement structural sections following the methodology presented in the Highway Design Manual (Caltrans, 2016). Alternative sections were evaluated. The pavement sections were designed for a 20-year service life presuming that periodic maintenance, including crack sealing and resurfacing will be performed during the service life of the pavement. Premature deterioration may occur without periodic maintenance. Our recommendations for the pavement sections are presented in Table 11.

Paving operations and base preparation should be observed and tested by Ninyo & Moore. Subgrade enhancement geotextiles, where utilized, should be rolled out flat and tight, without folds or wrinkles, over prepared subgrade in the direction of travel. The geotextile should be pinned to the subgrade with nails and washers or u-shaped sod staples. Adjacent rolls should overlap 12 inches or more. Abutting rolls should overlap in the direction of fill placement to reduce the potential for peeling of the geotextile during fill placement. Aggregate base fill should be pushed over the geotextile into position and compacted. To reduce the potential for displacement of the geotextile or deterioration of the subgrade, construction equipment should not operate on the geotextile with 6 inches of aggregate base cover.

Table 11 – Asphalt Concrete Pavement Structural Sections				
Design R-Value	Traffic Index	Alternative 1	Alternative 2	Alternative 3
7	3	2 inches AC 6 inches AB	2 inches AC 4 inches AB SEG	2 inches AC 4 inches AB 8 inches TS
7	5	3 inches AC 10 inches AB	3 inches AC 8 inches AB SEG	3 inches AC 6 inches AB 8 inches TS
7	7	4 inches AC 16 inches AB	4 inches AC 12 inches AB SEG	4 inches AC 10 inches AB 8 inches TS

Notes:

[1] AC is Type A, Dense-Graded Hot Mix Asphalt complying with Caltrans Standard Specification 39-2 (2015).
[2] AB is Class II Aggregate Base complying with Caltrans Standard Specification 26-1.02 (2015).
[3] SEG is subgrade enhancement geotextile such as Mirafi 600X.
[4] TS is chemically treated subgrade consistent with the recommendations in Section 10.1.6.

Aggregate base for pavement should be placed in lifts of no more than 8 inches in loose thickness, and compacted per Section 10.1.8. Asphalt concrete should be placed and compacted per Section 10.1.8. Pavements should be sloped so that runoff is diverted to an appropriate collector (concrete gutter, swale, or area drain) to reduce the potential for ponding of water on the pavement. Concentration of runoff over asphalt pavement should be discouraged.

10.4.2 Exterior Flatwork

Concrete walkways and other exterior flatwork not subject to vehicular loading should be 4 inches thick (or more) over 6 inches of aggregate base. Appropriate jointing of concrete flatwork can encourage cracks to form at joints, reducing the potential for crack development between joints. Joints should be laid out in a square pattern at consistent intervals. Contraction and construction should be detailed and constructed in accordance with the guidelines of ACI Committee 302 (ACI, 2016). The lateral spacing between contraction joints should be 8 feet or less for a 4-inch thick slab.

Distributed reinforcing steel may be utilized to reduce the potential for differential slab movement, should cracking occur between joints. The distributed reinforcing steel should be terminated about 6 inches from contraction joints, and should consist of No. 3 deformed bars at 18 inches on center, both ways. Slabs reinforced with distributed steel should be 5 inches thick (or more). To reduce the potential for differential slab movement across joints,

the distributed steel may be extended through the joints. This improvement will be balanced by a reduction in the functionality of the contraction joint to encourage crack formation at joints. Masonry briquettes or plastic chairs should be used to maintain the position of the reinforcement in the upper half of the slab with 1½ inches of cover over the steel.

10.5 Concrete

Laboratory testing indicated that the concentration of sulfate and corresponding potential for sulfate attack on concrete is negligible for the soil tested. However, due to the variability in the on-site soil and the potential future use of reclaimed water at the site, we recommend that Type II/V or Type V cement be used for concrete structures in contact with soil. In addition, we recommend a water-to-cement ratio of no more than 0.45. A 3-inch thick, or thicker, concrete cover should be maintained over reinforcing steel where concrete is in contact with soil in accordance with recommendations of ACI Committee 318 (ACI, 2014).

10.6 Moisture Vapor Retarder

The migration of moisture through slabs underlying enclosed spaces or overlain by moisture sensitive floor coverings should be discouraged by providing a moisture vapor retarding system between the subgrade soil and the bottom of slabs. We recommend that the moisture vapor retarding system consist of a 4-inch-thick capillary break, overlain by a 15-mil-thick plastic membrane. The capillary break should be constructed of clean, compacted, open-graded crushed rock or angular gravel of ¾-inch nominal size. To reduce the potential for slab curling and cracking, an appropriate concrete mix with low shrinkage characteristics and a low water-to-cementitious-materials ratio should be specified. In addition, the concrete should be delivered and placed in accordance with ASTM C94 with attention to concrete temperature and elapsed time from batching to placement, and the slab should be cured in accordance with the ACI Manual of Concrete Practice (ACI, 2016), as appropriate. The plastic membrane should conform to the requirements in the latest version of ASTM Standard E 1745 for a Class A membrane. The bottom of the moisture barrier system should be higher in elevation than the exterior grade, if possible. Positive drainage should be established and maintained adjacent to foundations and flatwork.

Where the exterior grade is at a higher elevation than the moisture vapor retarding system (including the capillary break layer), consideration should be given to constructing a subdrain around the foundation perimeter. The subdrain should consist of ¾-inch crushed rock wrapped in filter fabric (Mirafi 140N, or equivalent). The subdrain should be capped by a pavement or 12 inches of native soil and drained by a perforated pipe (Schedule 40 polyvinyl chloride pipe, or similar). The pipe should be sloped at 1 percent or more to discharge at an appropriate outlet

away from the foundation. The pipe should be located below the bottom elevation of the moisture vapor retarding system but above a plane extending down and away from the bottom edge of the foundation at a 2:1 (horizontal to vertical) gradient.

10.7 Surface Drainage and Site Maintenance

Surface drainage on the site should generally be provided so that water is diverted away from structures and is not permitted to pond. Positive drainage should be established adjacent to structures to divert surface water to an appropriate collector (graded swale, v-ditch, or area drain) with a suitable outlet. Drainage gradients should be 2 percent or more a distance of 5 feet or more from the structure for impervious surfaces and 5 percent or more a distance of 10 feet or more from the structure for pervious surfaces. Slope, pad, and roof drainage (from adjacent structures) should be collected and diverted to suitable discharge areas away from structures or other slopes by non-erodible devices (e.g., gutters, downspouts, concrete swales, etc.). Graded swales, v-ditches, or curb and gutter should be provided at the site perimeter to restrict flow of surface water onto and off of the site. Slopes should be vegetated or otherwise armored to reduce potential for erosion of soil. Drainage structures should be periodically cleaned out and repaired, as-needed, to maintain appropriate site drainage patterns.

Landscaping adjacent to foundations should include vegetation with low-water demands and irrigation should be limited to that which is needed to sustain the plants. Trees should be restricted from the areas adjacent to foundations a distance equivalent to the canopy radius of the mature tree. Bioretention areas should not be located within a distance of 20 feet from structure foundations.

Care should be taken by the contractor during grading to preserve any berms, drainage terraces, interceptor swales or other drainage devices on or adjacent to the project area. Drainage patterns established at the time of grading should be maintained for the life of the project. The property owner and maintenance personnel should be made aware that altering drainage patterns might be detrimental to wall performance.

10.8 Review of Construction Plans

The recommendations provided in this report are based on preliminary design information for the proposed construction. We recommend that a copy of the plans be provided to Ninyo & Moore for review before bidding to check the interpretation of our recommendations, and that the designed improvements are consistent with our assumptions. It should be noted that, upon review of these documents, some recommendations presented in this report might be revised or modified to meet the project requirements.

10.9 Construction Observation and Testing

The recommendations provided in this report are based on subsurface conditions encountered in relatively widely spaced exploratory borings. During construction, the geotechnical engineer or his representative in the field should be allowed to check the exposed subsurface conditions. During construction, the geotechnical engineer or his representative should be allowed to:

- Observe preparation and compaction of subgrade.
- Observe mitigation of unsuitable materials by excavation.
- Check and test imported materials prior to use as fill.
- Observe placement and compaction of fill, aggregate base, and asphalt concrete.
- Perform field density tests to evaluate fill and subgrade compaction.
- Observe foundation excavations for bearing materials and cleaning prior to placement of reinforcing steel and concrete.
- Observe condition of water vapor retarding system prior to concrete placement.

The recommendations provided in this report assume that Ninyo & Moore will be retained as the geotechnical consultant during the construction phase of the project. If another geotechnical consultant is selected, we request that the selected consultant provide a letter to the architect and the owner (with a copy to Ninyo & Moore) indicating that they fully understand Ninyo & Moore's recommendations, and that they are in full agreement with the recommendations contained in this report.

11 LIMITATIONS

The field evaluation, laboratory testing, and geotechnical analyses presented in this geotechnical report have been conducted in general accordance with current practice and the standard of care exercised by geotechnical consultants performing similar tasks in the project area. No warranty, expressed or implied, is made regarding the conclusions, recommendations, and opinions presented in this report. There is no evaluation detailed enough to reveal every subsurface condition. Variations may exist and conditions not observed or described in this report may be encountered during construction. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. Additional subsurface evaluation will be performed upon request. Please also note that our evaluation was limited to assessment of the geotechnical aspects of the project, and did not include evaluation of structural issues, environmental concerns, or the presence of hazardous materials.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document.

This report is intended for design purposes only. It does not provide sufficient data to prepare an accurate bid by contractors. It is suggested that the bidders and their geotechnical consultant perform an independent evaluation of the subsurface conditions in the project areas. The independent evaluations may include, but not be limited to, review of other geotechnical reports prepared for the adjacent areas, site reconnaissance, and additional exploration and laboratory testing.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. If geotechnical conditions different from those described in this report are encountered, our office should be notified and additional recommendations, if warranted, will be provided upon request. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

12 REFERENCES

American Concrete Institute, 2014, Building Code Requirements for Structural Concrete and Commentary, 318-14.

American Concrete Institute, 2015, Guide to Concrete Floor and Slab Construction, 302.1R-15.

American Concrete Institute, 2016, ACI Manual of Concrete Practice.

American Society of Civil Engineer (ASCE), 2010, Minimum Design Loads for Buildings and Other Structures, Standard 7-10.

American Society for Testing and Materials (ASTM), 2016, Annual Book of ASTM Standards, West Conshohocken, Pennsylvania.

Association of Bay Area Governments (ABAG), 2017, Resilience Program Website: http://gis.abag.ca.gov/website/Hazards/

Brabb, E.E., Graymer, R.W., and Jones, D.L., 1998, Geology of the Palo Alto 30 x 60 Minute Quadrangle, California: U.S. Geological Survey Open-File Report 98-348.

Brabb, E.E., Graymer, R.W., and Jones, D.L., 2000, Geologic Map and Map Database of the Palo Alto 30 x 60 Minute Quadrangle, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-2332.

California Building Standards Commission (CBSC), 2016, California Building Code (CBC), Title 24, Part 2, Volumes 1 and 2.

California Department of Toxic Substances and Control (DTSC), 2005, Operation and Maintenance (O&M) Plan Template, Naturally Occurring Asbestos, Response Actions at Schools: State of California Department of Toxic Substances and Control, dated October 11, 2005.

California Department of Toxic Substances and Control (DTSC), 2004, Interim Guidelines, Naturally Occurring Asbestos (NOA) at School Sites: State of California Department of Toxic Substances and Control, dated September 24, 2004.

California Department of Transportation (Caltrans), 2012, Corrosion Guidelines, Version 2.0, Division of Engineering Services, Materials Engineering and Testing Services, Corrosion Technology Branch: dated November.

California Department of Transportation (Caltrans), 2015, Standard Specifications: dated May.

California Department of Transportation (Caltrans), 2016, Highway Design Manual, http://www.dot.ca.gov/hq/oppd/hdm/hdmtoc.htm, dated December 16.

California Department of Transportation (Caltrans), 2017, Caltrans Fault Database for ARS Online, Version 2.3.08, http://dap3.dot.ca.gov/ARS_Online/, accessed October, 2017.

California Division of Mines and Geology (CDMG), 1974, Alquist-Priolo Special Studies Zones for the Palo Alto Quadrangle, California, dated July 1, scale 1:24,000.

California Geological Survey, 2018, Earthquake Fault Zones, A Guide for Government Agencies, Property Owners/Developers, and Geoscience Practitioners for Assessing Fault Rupture Hazards in California: California Geologic Survey Special Publication 42.

California Geological Survey (CGS), 2013, Checklist for the Review of Engineering Geology and Seismology Reports for California Public Schools, Hospitals, and Essential Services Buildings, Note 48, dated October.

California Geological Survey (CGS), 2008, Guidelines for Evaluation and Mitigating Seismic Hazards in California, Special Publication 117A.

California Geological Survey (CGS), 2007, Special Publication 42 - Fault Rupture Hazard Zones in California, Alquist-Priolo Earthquake Fault Zoning Act With Index to Earthquake Fault Zones Maps, by Bryant, W.A. and Hart, E.W.

California Geological Survey (CGS), 2006, Seismic Hazard Zone Report for the Palo Alto 7.5 Minute Quadrangle, San Mateo and Santa Clara Counties, California, Seismic Hazard Zone Report 111.

California Geological Survey (CGS), 2002, Guidelines for Geologic Investigations of Naturally Occurring Asbestos in California: Special Publication 124.

California Geological Survey (CGS), 2000, Epicenters of and Areas Damaged by M≥5 California Earthquakes, Map Sheet 49, dated December 14.

Campbell, K. and Bozorgnia, Y., 2008, NGA Ground Motion Model for the Geometric Mean Horizontal Component of PGA, PGV, PGD, and 5% Damped Linear Elastic Response Spectra for Periods Ranging from 0.01 to 10 s: Earthquake Spectra, Vol. 24, pp. 139-172.

Chiou, B. and Youngs, R., 2008, An NGA Model for the Average Horizontal Component of Peak Ground Motion and Response Spectra: Earthquake Spectra, Vol. 24, pp. 173-216.

Churchill, R.K., and Hill, R.L., 2000, A General Location Guide for Ultramafic Rocks in California – Areas More Likely to Contain Naturally Occurring Asbestos: California Division of Mines and Geology, Open-File Report 2000-19.

DLM/HED, 2017, Taft Community School Site Plan – Phase 3, Project NO. 2017-03267-000, dated November 15.

Ellen, S.D., Mark, R.K., Wieczorek, G.F., Wentworth, C.M., Ramsey, D.W., May, T.E., Graham, S.E., Beukelman,G.S., Barron, A.D., and Graymer, R.W., 1997, Map Showing Principal Debris-Flow Source Areas in the San Francisco Bay Region, California: U.S. Geological Survey, Open-File Report OF-97-745-E, Scale 1:125,000.

FEMA, 2012, Flood Insurance Rate Map (FIRM), San Mateo County, California and Incorporated Areas, Panel 302 of 510, Map Number 06081C0302E, dated October 16.

Google, 2018, Google Earth Pro 7.1.8.3036, http://earth.google.com/.

Idriss, I.M., and Boulanger, R.W., 2008, Soil Liquefaction During Earthquakes, Earthquake Engineering Research Institute (EERI), Monograph MNO-12.

Jennings, C.W. and Bryant, W.A., 2010, Fault Activity Map of California: California Geological Survey, Geologic Data Map 6, Scale 1:750,000.

Knudsen, K.L., Sowers, J.M., Witter, R.C., Wentworth, C.M., Helley, E.J., Nicholson, R.S., Wright, H.M., and Brown, K.H., 2000, Preliminary Maps of Quaternary Deposits and Liquefaction Susceptibility, Nine-County San Francisco Bay Region, California: a digital database: U.S. Geological Survey, Open-File Report OF-2000-444, Scale 1:275,000.

Ninyo and Moore, 2017, Geotechnical Evaluation for Proposed Lunch Shelter, Taft Community School, 903 Tenth Avenue, Redwood City, California 94063, Project No. 40965003, dated March 21.

Pampeyan, E.H., 1993, Geologic Map of the Palo Alto and Part of the Redwood Point 7.5-Minute Quadrangles, San Mateo and Santa Clara Counties, California: U.S. Geological Survey Miscellaneous Investigations Series Map I-2371, scale 1:24,000.

Pradel, D., 1998, Procedure to Evaluate Earthquake-Induced Settlements in Dry Sandy Soils, ASCE, Journal of Geotechnical and Geoenvironmental Engineering, Volume 124, No. 4, dated April .

Robertson, P.K. and Campanella, R.C., 1989, Guidelines for Geotechnical Design using the Cone Penetrometer Test and CPT with Pore Pressure Measurement; Soil Mechanics Series No. 120, Civil Engineering Department, University of British Colombia, Vancouver, B.C.

Robertson, P.K., and Shao, L., 2010, Estimation of Seismic Compression in Dry Soils Using the CPT, 5th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, California, Dated May 24.

State of California, 2009, Tsunami Inundation Map for Emergency Planning, State of California and County of San Mateo, Redwood Point and Palo Alto Quadrangles: California Emergency Management Agency, California Geological Survey, and University of Southern California – Tsunami Research Center, Scale 1:24,000, dated June 15.

Tokimatsu, K., and Seed, H.B., 1987, Evaluation of Settlements in Sands Due to Earthquake Shaking, Journal of the Geotechnical Engineering Division, ASCE, Vol. 113, No. 8, pp. 861-878.

United States Geological Survey, 2018, United States Seismic Design Maps, World Wide Web, http://geohazards.usgs.gov/designmaps/us/application.php.

Wentworth, C.M., Graham, S.E., Pike, R.J., Beukelman, G.S., Ramsey, D.W., and Barron, A.D., 1997, Summary Distribution of Slides And Earth Flows in the San Francisco Bay Region, California: U.S. Geological Survey, Open-File Report OF-97-745-C, Scale 1:125,000.

Witter, R.C., Knudsen, K.L, Sowers, J.M., Wentworth, C.M., Koehler, R.D., and Randolph, C.E., 2006, Maps of Quaternary Deposits and Liquefaction Susceptibility in the Central San Francisco Bay Region, California: U.S. Geological Survey Open-File Report 2006-1037, Scale 1:24,000 (http://pubs.usgs.gov/of/2006/1037/).

Working Group on California Earthquake Probabilities, 2008, Uniform California Earth-quake Rupture Forecast, Version 2 (UCERF 2): U.S. Geological Survey (USGS) Open-File Report 2007-1437 and California Geological Survey (CGS) Special Report 203: http://pubs.usgs.gov/of/2007/1437/.

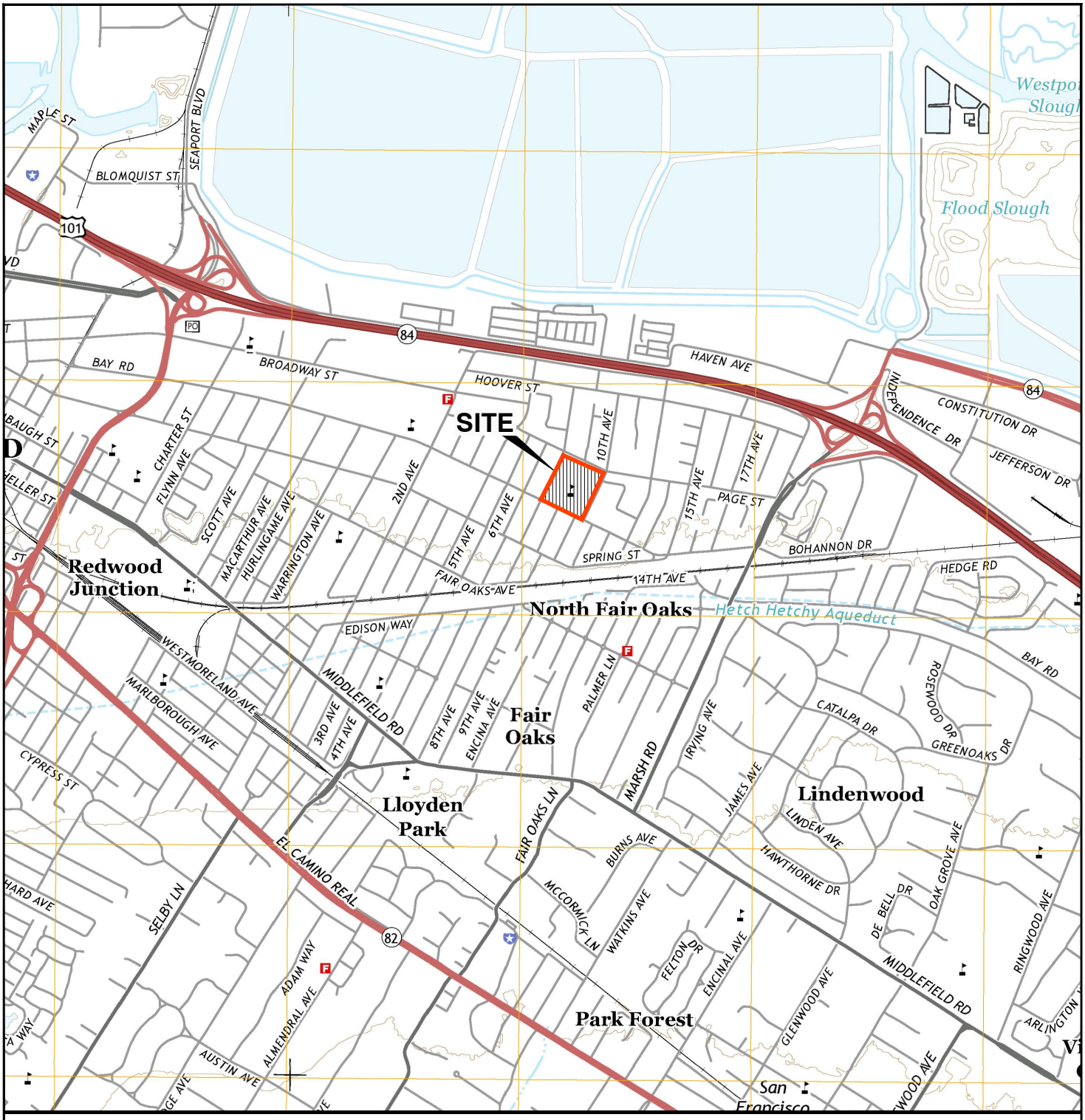
Zhang, G., Roberston, P.K., and Brachman, R.W.I., 2002, Estimating Liquefaction-Induced Ground Settlements from CPT for Level Ground, Canadian Geotechnical Journal, Volume 39, pp. 1168-1180.

List of Aerial Photographs Reviewed

Date	ID	Line	Frame	Scale
10-12-2005	KAV9200	47	12, 13	1:7200
9-7-1995	AV4916	16	6, 7	1:12000
7-1-1991	AV4075	16	8, 9	1:12000
10-15-1985	AV2670	15	7, 8	1:12000
5-30-1979	AV1705	15	7, 8	1:12000
5-21-1975	AV1188	15	7, 8	1:12000
10-28-1969	AV933	16	8, 9	1:12000
12-11-1963	AV572	1	5, 6, 7	1:36000
5-8-1961	AV432	16	9, 10	1:12000
6-3-1955	AV170	18	7, 8	1:10000
3-26-1941	C	6660	361	1:24000
6-1-1930	C	1025	F-5	1:14400

Source:
Quantum Spatial Inc., Novato, California and UCSB Library

FIGURES



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: USGS, 2015.

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FIGURE 1

Ninyo & Moore
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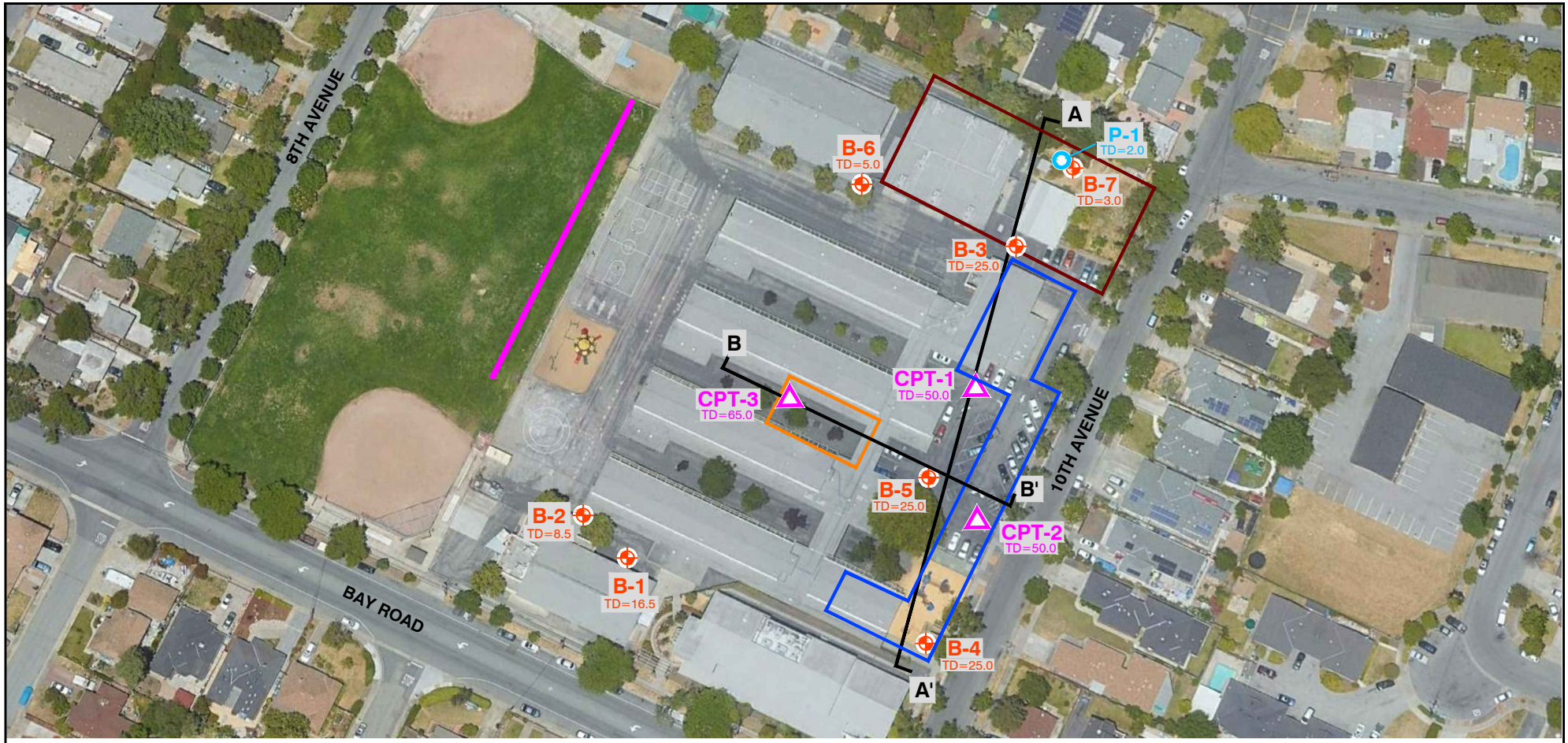
SITE LOCATION

TAFT COMMUNITY SCHOOL
903 TENTH AVENUE
REDWOOD CITY, CALIFORNIA
402965003 I 2/18



LEGEND

- B-7 TD=3.0 — BORING; TD=TOTAL DEPTH IN FEET
- CPT-3 TD=65.0 — CONE PENETRATION TEST; TD=TOTAL DEPTH IN FEET
- P-1 TD=2.0 — PERCOLATION TEST; TD=TOTAL DEPTH IN FEET
- ReMi SURVEY
- NEW LIBRARY
- NEW CLASSROOMS
- NEW PARKING LOT
- B — B' CROSS SECTION

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE:GOOGLE EARTH, 2018.

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FIGURE 2

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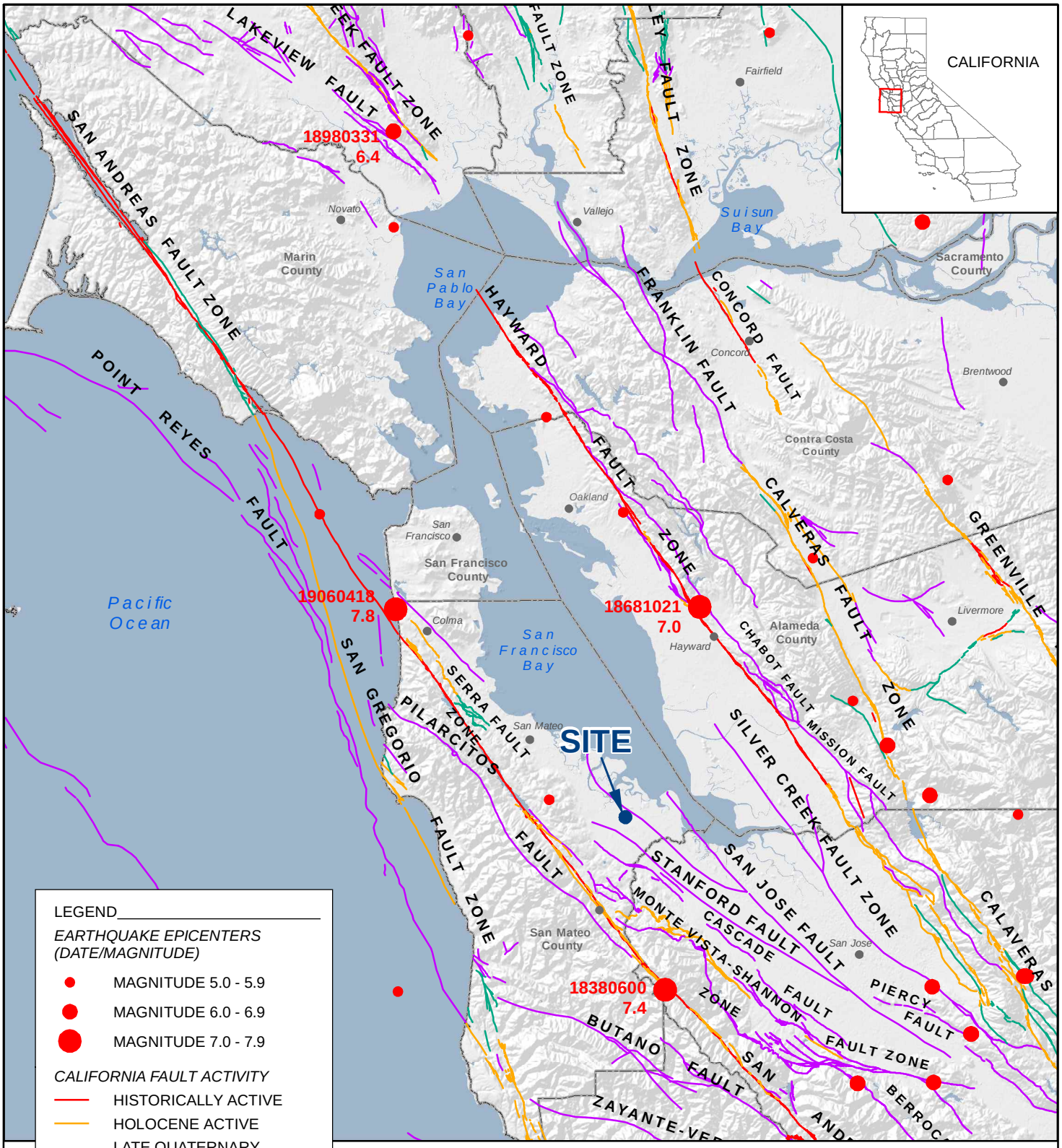
EXPLORATION LOCATIONS

TAFT COMMUNITY SCHOOL
903 TENTH AVENUE
REDWOOD CITY, CALIFORNIA
402965003 I 2/18



SOURCE: CALIFORNIA GEOLOGICAL SURVEY, 2000, MAP SHEET MS 49, RELEASED DECEMBER 14.

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

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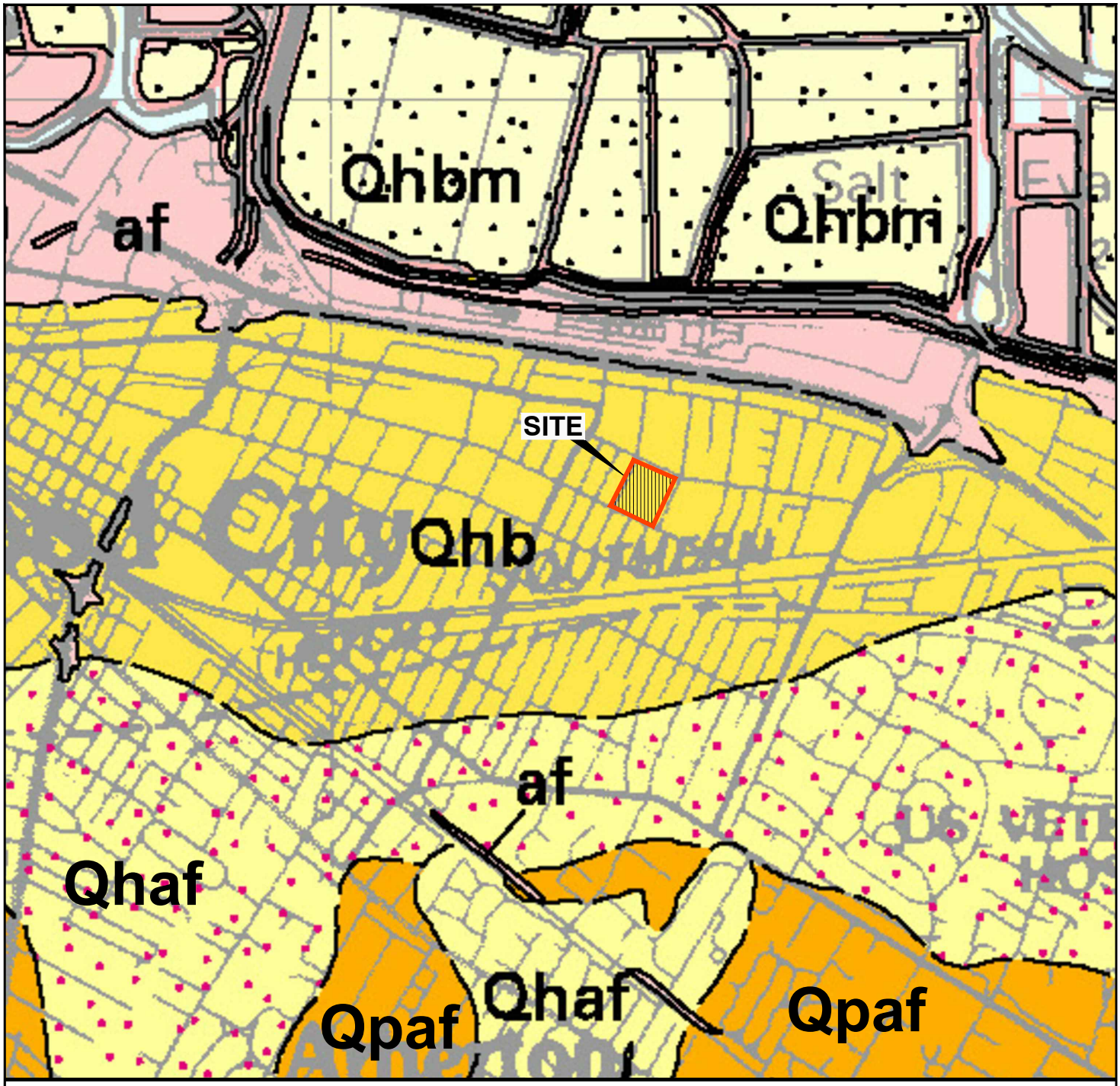
FIGURE 3

FAULT LOCATIONS AND EARTHQUAKE EPICENTERS
TAFT COMMUNITY SCHOOL
903 TENTH AVENUE
REDWOOD CITY, CALIFORNIA
402965003 | 2/18

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants



LEGEND

af	ARTIFICIAL FILL (HOLOCENE)	Qhaf / Qpaf	ALLUVIAL FAN AND FLUVIAL DEPOSITS (QUATERNARY)
Qhbm	BAY MUD (HOLOCENE)		
Qhb	BASIN DEPOSITS (HOLOCENE)		

GEOLOGIC CONTACT

FAULT

30 STRIKE AND DIP OF BEDDING

REFERENCE: BRABB, GRAYMER, AND JONES, 1998.
NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

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FIGURE 4

Ninyo & Moore
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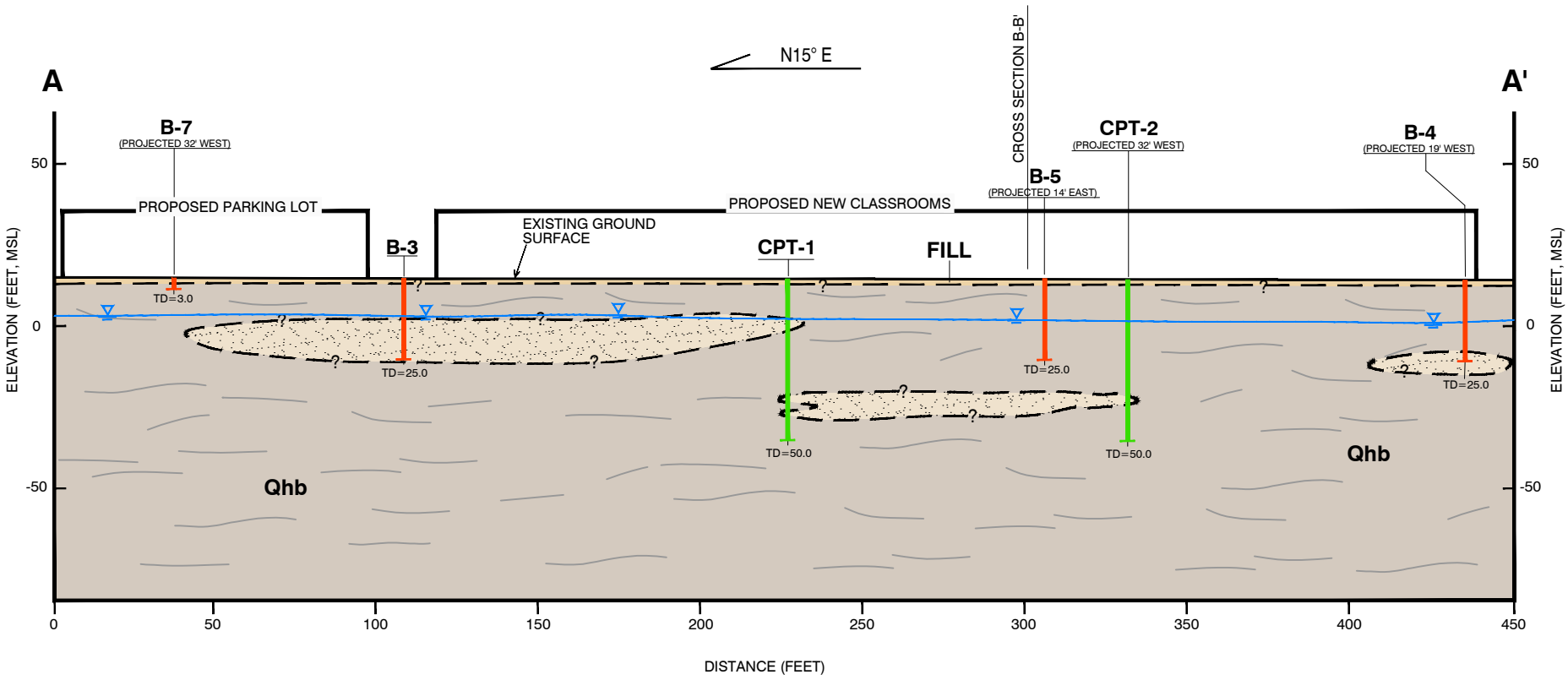
REGIONAL GEOLOGY

TAFT COMMUNITY SCHOOL
903 TENTH AVENUE
REDWOOD CITY, CALIFORNIA
402965003 I 2/18



LEGEND

Qhb	BASIN DEPOSITS	GROUNDWATER LEVEL (AT TIME OF EXPLORATION)	B-7 / TD=3.0 — BORING; TD=TOTAL DEPTH IN FEET
	MOSTLY SAND	MSL — MEAN SEA LEVEL	
	MOSTLY SILT AND CLAY	GEOLOGIC CONTACT; QUERIED WHERE UNCERTAIN	CPT-2 / TD=50.0 — CONE PENETRATION TEST; TD=TOTAL DEPTH IN FEET

FEET
0 50 100

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

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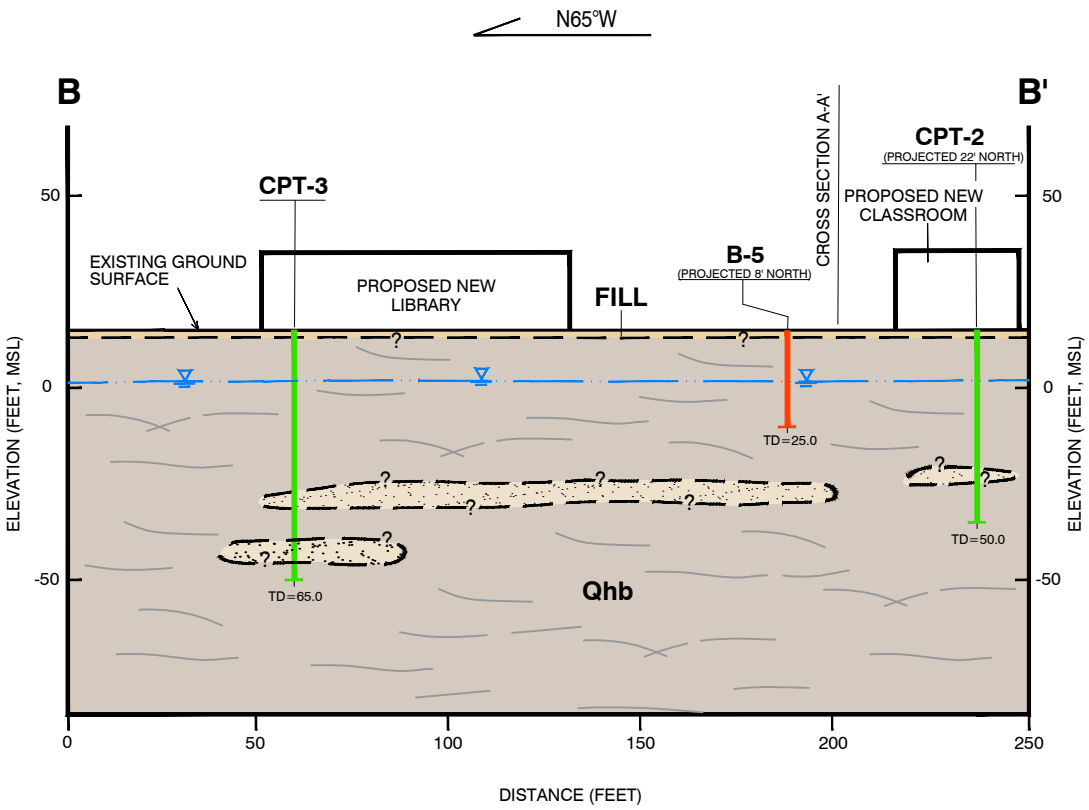
FIGURE 5

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

CROSS SECTION A-A'

TAFT COMMUNITY SCHOOL
903 TENTH AVENUE
REDWOOD CITY, CALIFORNIA
402965003 I 2/18



LEGEND

Qhb	BASIN DEPOSITS	GROUNDWATER LEVEL (AT TIME OF EXPLORATION)	B-5 (TD=25.0): BORING; TD=TOTAL DEPTH IN FEET
	MOSTLY SAND	MSL: MEAN SEA LEVEL	
	MOSTLY SILT AND CLAY	GEOLOGIC CONTACT; QUERIED WHERE UNCERTAIN	CPT-2 (TD=50.0): CONE PENETRATION TEST; TD=TOTAL DEPTH IN FEET

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

FEET
0 50 100

FIGURE 6

CROSS SECTION B-B'

TAFT COMMUNITY SCHOOL
903 TENTH AVENUE
REDWOOD CITY, CALIFORNIA
402965003 I 2/18

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

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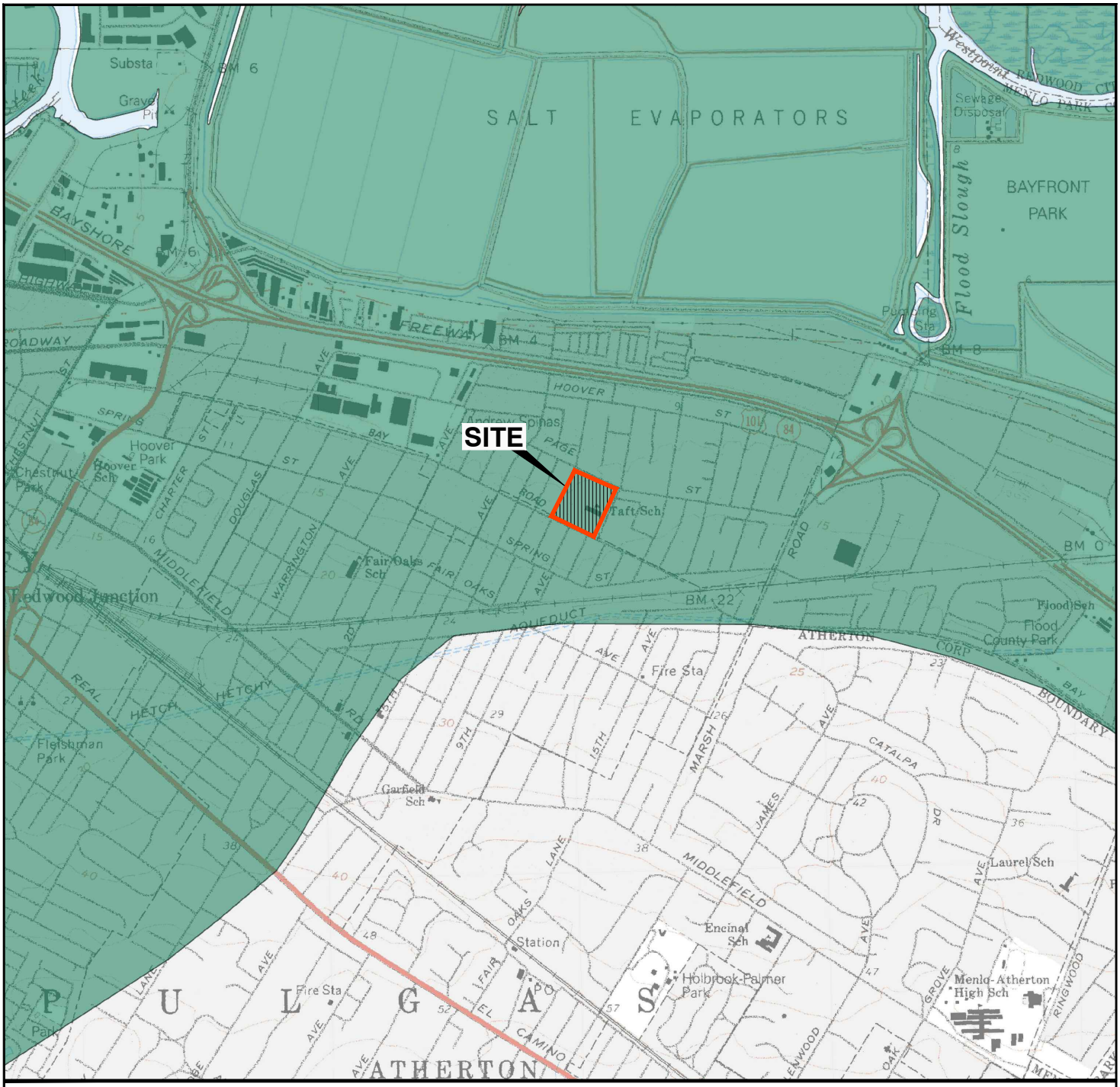

LEGEND

LIQUEFACTION:
Areas where historic occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: CGS, 2006.

N

FEET
0 2,000 4,000

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FIGURE 7

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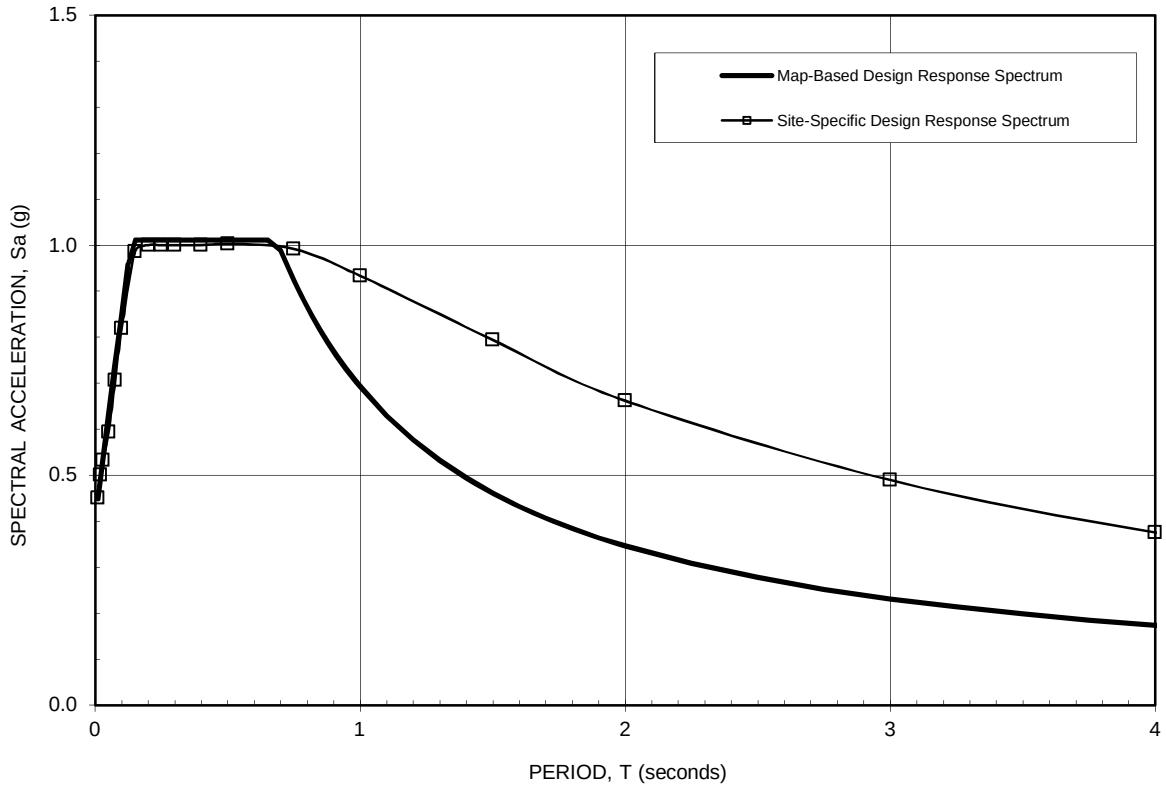
SEISMIC HAZARD ZONES

TAFT COMMUNITY SCHOOL
903 TENTH AVENUE
REDWOOD CITY, CALIFORNIA
402965003 I 2/18

PERIOD (seconds)	MAP-BASED DESIGN RESPONSE SPECTRUM Sa, (g)	SITE-SPECIFIC DESIGN RESPONSE SPECTRUM Sa, (g)
0.010	0.449	0.450
0.050	0.626	0.593
0.100	0.848	0.819
0.150	1.011	0.987
0.200	1.011	1.000
0.250	1.011	1.000
0.300	1.011	1.000
0.400	1.011	1.000
0.500	1.011	1.003
0.750	0.923	0.992
1.000	0.692	0.933

S_{DS} = 1.000	S_{D1} = 1.323	S_{MS} = 1.500	S_{M1} = 1.9851	PGA_M = 0.606



NOTES:

1 Probabilistic Ground Motion is the Maximum Considered Earthquake (MCE_R) ground motion having 2% probability of exceedance In 50 years using Chiou & Youngs (2008), Campbell & Bozorgnia (2008), and Boore & Atkinson (2008) attenuation relationships.

2 Deterministic ARS is 84th percentile of the median values from attenuation relationships by Chiou & Youngs (2008), Campbell & Bozorgnia (2008), and Boore & Atkinson (2008) considering a Mw 8 event on the San Andreas fault located 9.3 kilometers from the site. It conforms with the lower bound limit per ASCE 7-10 Section 21.2.2 as modified by 2009 NEHRP Recommended Seismic Provisions.

3 Site-Specific MCE_R is the lesser of spectral ordinates of deterministic and probabilistic ARS at each period, adjusted for risk, per ASCE 7-10 Section 21.2.3. Site-Specific Design Response Spectrum conforms with lower bound limit per ASCE 7-10 Section 21.3.

4 Map-Based Design Response Spectrum is computed from mapped spectral ordinates modified for Site Class D (Stiff Soil) per ASCE 7-10 Section 11.4. It is presented for comparison.

FIGURE 8

ACCELERATION RESPONSE SPECTRA

TAFT COMMUNITY SCHOOL
903 TENTH AVENUE, REDWOOD CITY, CALIFORNIA

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APPENDIX A

Boring Logs

APPENDIX A

BORING LOGS

Field Procedure for the Collection of Disturbed Samples

Disturbed soil samples were obtained in the field using the following methods.

Bulk Samples

Bulk samples of representative earth materials were obtained from the exploratory borings. The samples were bagged and transported to the laboratory for testing.

The Standard Penetration Test (SPT) Sampler

Disturbed drive samples of earth materials were obtained by means of a Standard Penetration Test sampler. The sampler is composed of a split barrel with an external diameter of 2 inches and an unlined internal diameter of 1-3/8 inches. The sampler was driven into the ground 12 to 18 inches with a 140-pound hammer free-falling from a height of 30 inches in general accordance with ASTM D 1586. The blow counts were recorded for every 6 inches of penetration; the blow counts reported on the logs are those for the last 12 inches of penetration. Soil samples were observed and removed from the sampler, bagged, sealed and transported to the laboratory for testing.

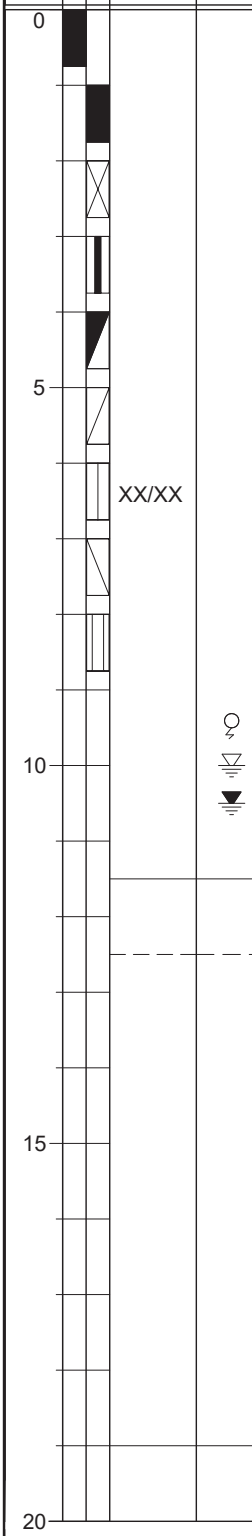
Field Procedure for the Collection of Relatively Undisturbed Samples

Relatively undisturbed soil samples were obtained in the field using the following methods.

The Modified Split-Barrel Drive Sampler

The sampler, with an external diameter of 3.0 inches, was lined with 6-inch long, thin brass liners with inside diameters of approximately 2.4 inches. The sample barrel was driven into the ground with the weight of a hammer in general accordance with ASTM D 3550. The driving weight was permitted to fall freely. The approximate length of the fall, the weight of the hammer, and the number of blows per foot of driving are presented on the boring log as an index to the relative resistance of the materials sampled. The samples were removed from the sample barrel in the brass liners, sealed, and transported to the laboratory for testing.

BORING LOG EXPLANATION SHEET



Bulk sample.

Modified split-barrel drive sampler.

No recovery with modified split-barrel drive sampler.

Sample retained by others.

Standard Penetration Test (SPT).

No recovery with a SPT.

Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.

No recovery with Shelby tube sampler.

Continuous Push Sample.

Seepage.

Groundwater encountered during drilling.

Groundwater measured after drilling.

SM

MAJOR MATERIAL TYPE (SOIL):

Solid line denotes unit change.

CL

Dashed line denotes material change.

Attitudes: Strike/Dip
b: Bedding
c: Contact
j: Joint
f: Fracture
F: Fault
cs: Clay Seam
s: Shear
bss: Basal Slide Surface
sf: Shear Fracture
sz: Shear Zone
sbs: Shear Bedding Surface

The total depth line is a solid line that is drawn at the bottom of the boring.

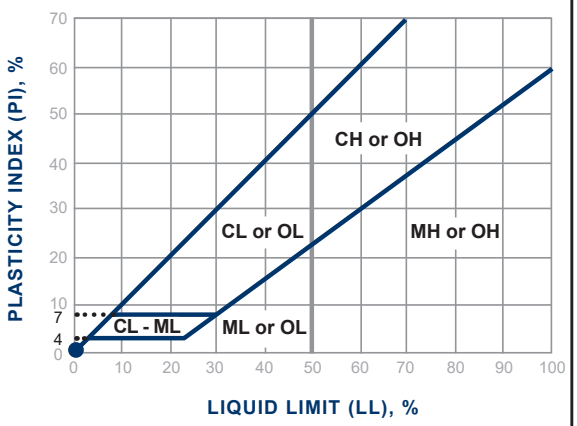
Soil Classification Chart Per ASTM D 2488

Primary Divisions			Secondary Divisions	
			Group Symbol	Group Name
COARSE-GRAINED SOILS more than 50% retained on No. 200 sieve	**GRAVEL** more than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVEL less than 5% fines	GW	well-graded GRAVEL
			GP	poorly graded GRAVEL
		GRAVEL with DUAL CLASSIFICATIONS 5% to 12% fines	GW-GM	well-graded GRAVEL with silt
			GP-GM	poorly graded GRAVEL with silt
			GW-GC	well-graded GRAVEL with clay
			GP-GC	poorly graded GRAVEL with
		GRAVEL with FINES more than 12% fines	GM	silty GRAVEL
			GC	clayey GRAVEL
			GC-GM	silty, clayey GRAVEL
	SAND 50% or more of coarse fraction passes No. 4 sieve	CLEAN SAND less than 5% fines	SW	well-graded SAND
			SP	poorly graded SAND
		SAND with DUAL CLASSIFICATIONS 5% to 12% fines	SW-SM	well-graded SAND with silt
			SP-SM	poorly graded SAND with silt
			SW-SC	well-graded SAND with clay
			SP-SC	poorly graded SAND with clay
		SAND with FINES more than 12% fines	SM	silty SAND
			SC	clayey SAND
			SC-SM	silty, clayey SAND
FINE-GRAINED SOILS 50% or more passes No. 200 sieve	**SILT and CLAY** liquid limit less than 50%	INORGANIC	CL	lean CLAY
			ML	SILT
			CL-ML	silty CLAY
		ORGANIC	OL (PI > 4)	organic CLAY
			OL (PI < 4)	organic SILT
	SILT and CLAY liquid limit 50% or more	INORGANIC	CH	fat CLAY
			MH	elastic SILT
		ORGANIC	OH (plots on or above "A"-line)	organic CLAY
			OH (plots below "A"-line)	organic SILT
	Highly Organic Soils		PT	Peat

Grain Size

Description		Sieve Size	Grain Size	Approximate Size
Boulders		> 12"	> 12"	Larger than basketball-sized
Cobbles		3 - 12"	3 - 12"	Fist-sized to basketball-sized
Gravel	Coarse	3/4 - 3"	3/4 - 3"	Thumb-sized to fist-sized
	Fine	#4 - 3/4"	0.19 - 0.75"	Pea-sized to thumb-sized
Sand	Coarse	#10 - #4	0.079 - 0.19"	Rock-salt-sized to pea-sized
	Medium	#40 - #10	0.017 - 0.079"	Sugar-sized to rock-salt-sized
	Fine	#200 - #40	0.0029 - 0.017"	Flour-sized to sugar-sized
Fines		Passing #200	< 0.0029"	Flour-sized and smaller

Plasticity Chart



Apparent Density - Coarse-Grained Soil

Apparent Density	Spooling Cable or Cathead		Automatic Trip Hammer	
	SPT (blows/foot)	Modified Split Barrel (blows/foot)	SPT (blows/foot)	Modified Split Barrel (blows/foot)
Very Loose	≤ 4	≤ 8	≤ 3	≤ 5
Loose	5 - 10	9 - 21	4 - 7	6 - 14
Medium Dense	11 - 30	22 - 63	8 - 20	15 - 42
Dense	31 - 50	64 - 105	21 - 33	43 - 70
Very Dense	> 50	> 105	> 33	> 70

Consistency - Fine-Grained Soil

Consis-tency	Spooling Cable or Cathead		Automatic Trip Hammer	
	SPT (blows/foot)	Modified Split Barrel (blows/foot)	SPT (blows/foot)	Modified Split Barrel (blows/foot)
Very Soft	< 2	< 3	< 1	< 2
Soft	2 - 4	3 - 5	1 - 3	2 - 3
Firm	5 - 8	6 - 10	4 - 5	4 - 6
Stiff	9 - 15	11 - 20	6 - 10	7 - 13
Very Stiff	16 - 30	21 - 39	11 - 20	14 - 26
Hard	> 30	> 39	> 20	> 26

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USCS METHOD OF SOIL CLASSIFICATION

DATE DRILLED 2/20/17 BORING NO. B-1

GROUND ELEVATION 16' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 4" Solid Stem Auger, Truck-mounted Rig (California Geotech)

DRIVE WEIGHT 140 lbs (Cathead) DROP 30"

SAMPLED BY JAC LOGGED BY JAC REVIEWED BY TPS

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							ASPHALT: Approximately 3.5 inches thick.
		Qc=40				SC	FILL:
		Qc=10	25.3				Brown, moist to wet, medium dense, clayed SAND.
		Qc=16				CL	ALLUVIUM:
		Qc=15					Gray, moist, firm to stiff, lean CLAY.
		34	24.7				Light brown; very stiff.
10		11	23.0	103.5			Stiff; sandy.
		25	20.7	106.1			Light brown/olive; very stiff.
							Total Depth = 16.5 feet.
							Backfilled with grout on 2/20/17.
20							Groundwater was measured at a depth of approximately 5.0 feet in borehole about 5 minutes after drilling. Groundwater may rise to a level higher than that measured in borehole due to relatively slow rate of seepage in clay and several other factors as discussed in the report.
							The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
30							
40							

DATE DRILLED 2/20/17 BORING NO. B-2

GROUND ELEVATION 16' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 4" Solid Stem Auger, Truck-mounted Rig (California Geotech)

DRIVE WEIGHT 140 lbs (Cathead) DROP 30"

SAMPLED BY JAC LOGGED BY JAC REVIEWED BY TPS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0								
	■		Qc=38				SC	ASPHALT: Approximately 3 inches thick.
	■		Qc=45					FILL: Brown, moist, firm to stiff, clayey SAND.
			Qc=15				CL	ALLUVIUM: Gray, moist, stiff, lean CLAY.
	■		Qc=18					
		■	25					Very stiff.
10								Total Depth = 8.5 feet.
								Backfilled with grout on 2/20/17.
								Groundwater, although not encountered at the time of drilling, may rise to a higher level due to season variations in precipitation and several other factors as discussed in the report.
								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
20								
30								
40								

DATE DRILLED 1/04/18 BORING NO. B-3

GROUND ELEVATION 15' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" HSA, B-53 Red Truck Mounted (Exploration Geo.), 3" HA top 5'

DRIVE WEIGHT 140 LBS (wireline) DROP 30 INCHES

SAMPLED BY KCC LOGGED BY KCC REVIEWED BY TPS

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							ASPHALT CONCRETE: Approximately 12 inches thick.
						CL	FILL: Gray, moist, very stiff, lean CLAY; trace sand.
						CL	ALLUVIUM: Gray, moist, very stiff, lean CLAY; trace sand.
		35	21.1	102.4			
		24					Light brown with orange staining.
10							
		73	15.0	111.6		SP	Gray, wet, dense, poorly-graded SAND.
		36					
		32	18.0			SP-SC	Gray, wet, dense, poorly-graded SAND with clay.
20							
		34					
							Total Depth = 25 feet.
							Backfilled with cement grout using the tremie method shortly after drilling.
							Notes:
30							Groundwater was encountered at 13 feet in the borehole during drilling. It was measured at a depth of approximately 16.5 feet in borehole shortly after drilling. Groundwater may rise to a level higher than that measured in borehole due to seasonal variations in precipitation and several other factors as discussed in the report.
							The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
40							

DATE DRILLED 1/04/18 BORING NO. B-4

GROUND ELEVATION 16' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" HSA, B-53 Red Truck Mounted (Exploration Geo.), 3" HA top 5'

DRIVE WEIGHT 140 LBS (wireline) DROP 30 INCHES

SAMPLED BY KCC LOGGED BY KCC REVIEWED BY TPS

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						CL	FILL: Gray, moist, stiff, lean CLAY; trace roots.
						CL	ALLUVIUM: Gray, moist, very stiff, lean CLAY.
		35	19.2	103.8		CH	Light brown, moist, very stiff, fat CLAY.
		16				CL	Light brown, wet, stiff, lean CLAY.
10		32					Very stiff.
		16					Stiff.
20							
		38	17.1			SP	Gray, wet, dense, poorly-graded SAND.
30							Total Depth = 25 feet. Backfilled with cement grout using the tremie method shortly after drilling. Notes: Groundwater was encountered at 13 feet in the borehole during drilling. It was measured at a depth of approximately 16 feet in borehole shortly after drilling. Groundwater may rise to a level higher than that measured in borehole due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
40							

FIGURE A- 4

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TAFT COMMUNITY SCHOOL
903 TENTH AVENUE, REDWOOD CITY, CALIFORNIA

DATE DRILLED 1/04/18 BORING NO. B-5

GROUND ELEVATION 16' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" HSA, B-53 Red Truck Mounted (Exploration Geo.), 3" HA top 5'

DRIVE WEIGHT 140 LBS (wireline) DROP 30 INCHES

SAMPLED BY KCC LOGGED BY KCC REVIEWED BY TPS

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						CL	ASPHALT CONCRETE: Approximately 6 inches thick.
						CL	FILL: Gray, moist, stiff, lean CLAY; trace roots.
							ALLUVIUM: Gray, moist, very stiff, lean CLAY.
		26					
							Brown.
10		30	23.2	102.2			
							Light brown. Hard; wet.
		51	21.3	104.6			
		15	24.6	96.7			Stiff; trace sand.
20							
		27					Very stiff; trace sand.
							Total Depth = 25 feet. Backfilled with cement grout using the tremie method shortly after drilling. Notes: Groundwater was encountered at 13.5 feet in the borehole during drilling. It was measured at a depth of approximately 17 feet in borehole shortly after drilling. Groundwater may rise to a level higher than that measured in borehole due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
30							
40							

DATE DRILLED 1/04/18 BORING NO. B-6

GROUND ELEVATION 14' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 3 inch hand auger

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY KCC LOGGED BY KCC REVIEWED BY TPS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SC	FILL: Brown, moist, medium dense, clayey SAND; trace roots; trace gravel.
				25.6			CL	ALLUVIUM: Gray, wet, stiff, lean CLAY; trace roots, trace gravel. Moist.
10								Total Depth = 5 feet. Backfilled with drill cuttings shortly after drilling. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
20								
30								
40								

DATE DRILLED 1/04/18 BORING NO. B-7

GROUND ELEVATION 15' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 3 inch hand auger

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY KCC LOGGED BY KCC REVIEWED BY TPS

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						CL	FILL: Dark brown, moist, stiff, lean CLAY; trace roots; trace gravel.
							Total Depth = 3 feet. Backfilled with drill cuttings shortly after drilling. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
10							
20							
30							
40							

APPENDIX B

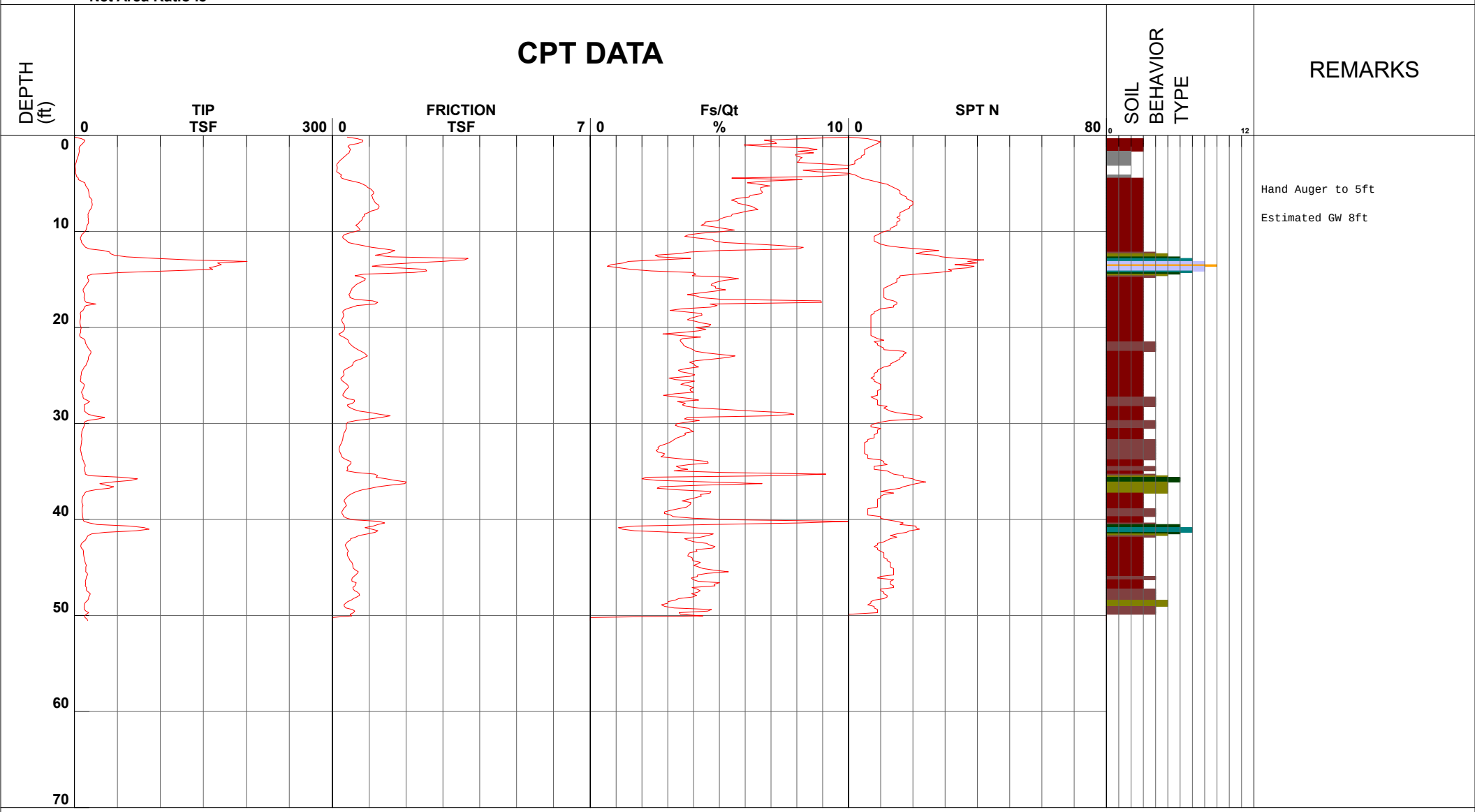
CPT Logs

Ninyo & Moore

Project	RCSD Taft	Operator	RB-JO	Filename	SDF(002).cpt
Job Number	402965003	Cone Number	DDG1418	GPS	
Hole Number	CPT-01	Date and Time	1/5/2018 11:14:47 AM	Maximum Depth	50.52 ft
EST GW Depth During Test		8.00 ft			

Net Area Ratio .8

CPT DATA



REMARKS

Hand Auger to 5ft

Estimated GW 8ft

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

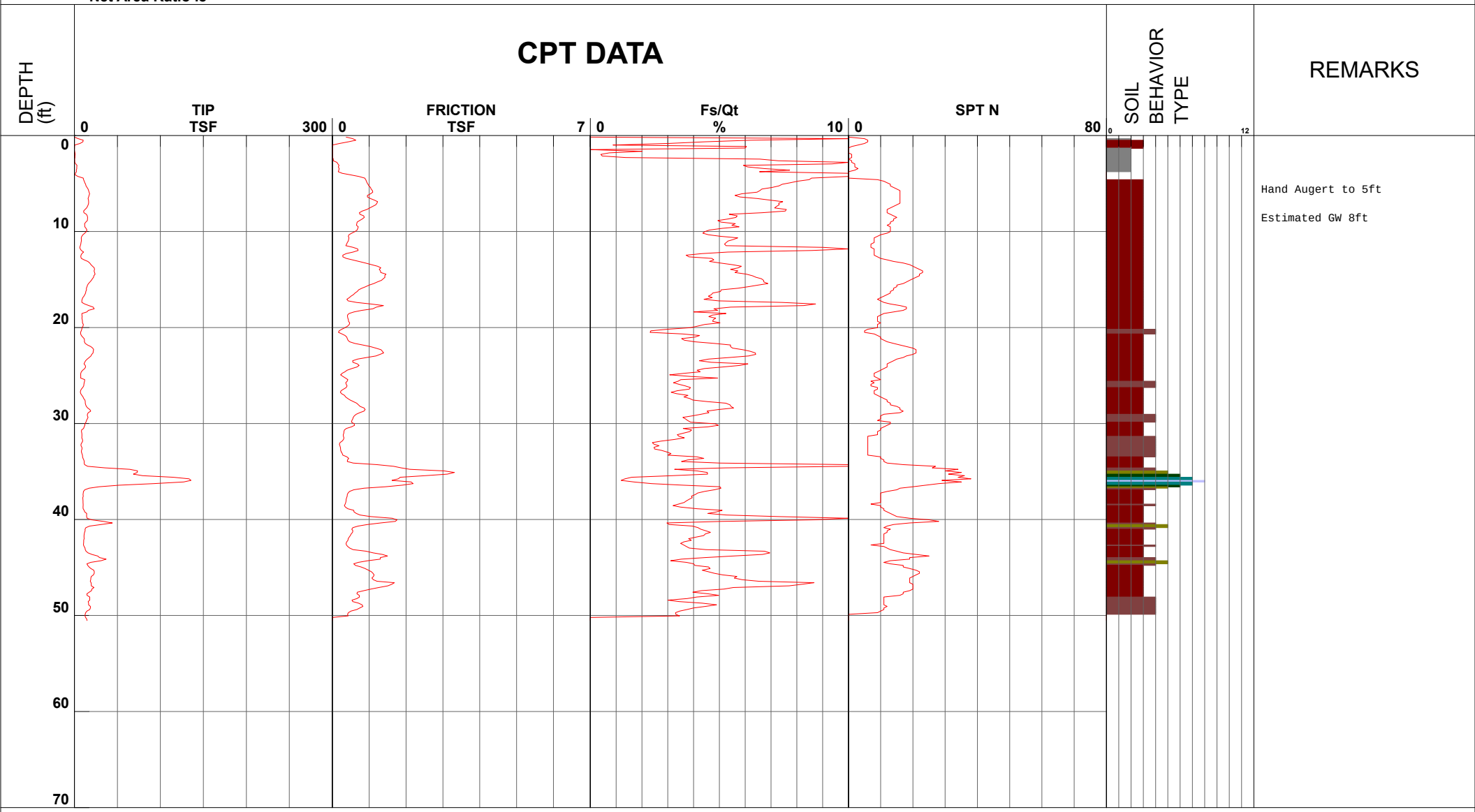
S*Soil behavior type and SPT based on data from UBC-1983

Ninyo & Moore

Project	RCSD Taft	Operator	RB-JO	Filename	SDF(004).cpt
Job Number	402965003	Cone Number	DDG1418	GPS	
Hole Number	CPT-02	Date and Time	1/5/2018 1:40:49 PM	Maximum Depth	50.52 ft
EST GW Depth During Test		8.00 ft			

Net Area Ratio .8

CPT DATA



REMARKS

Hand Augert to 5ft

Estimated GW 8ft

- 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

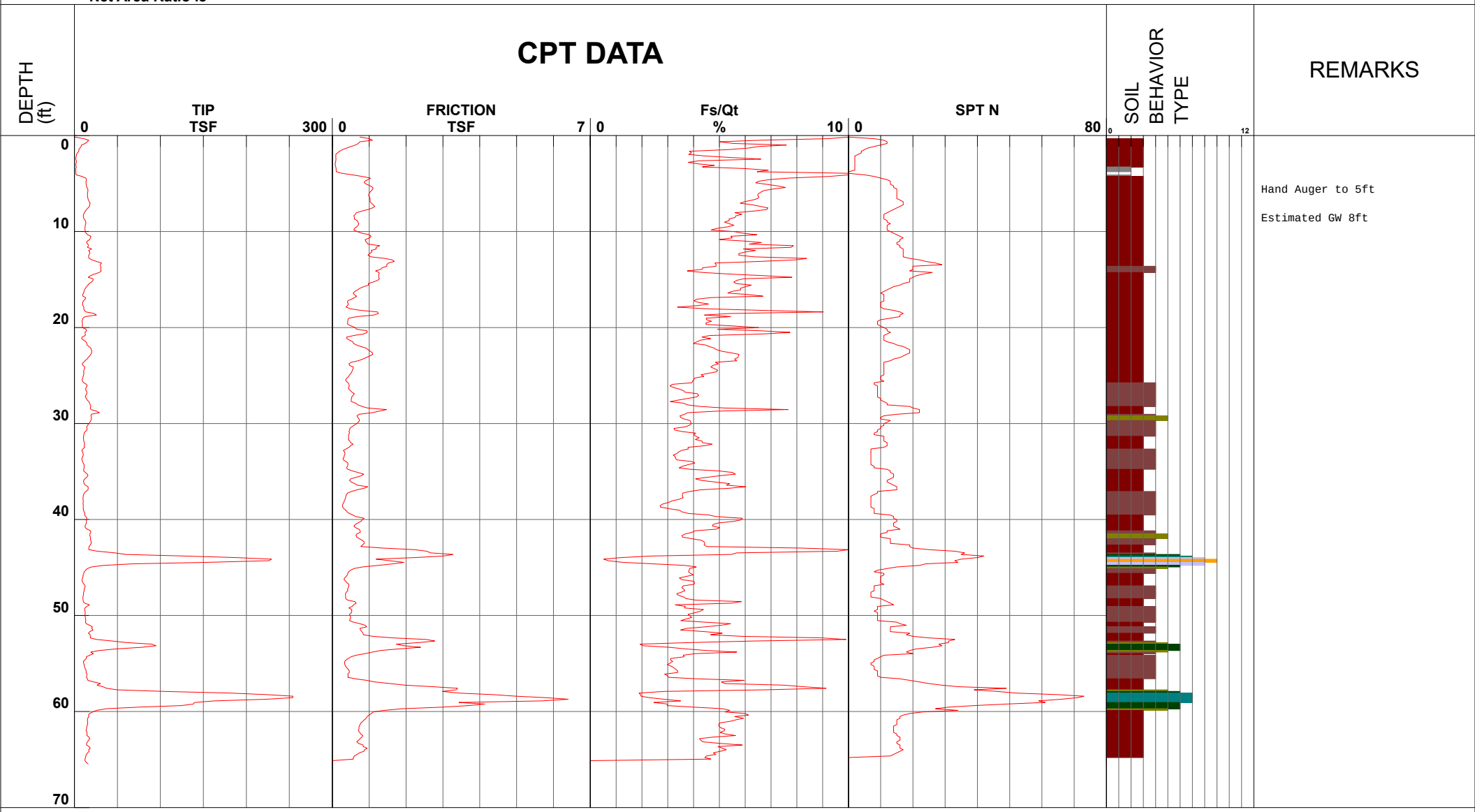
S*Soil behavior type and SPT based on data from UBC-1983

Ninyo & Moore

Project	RCSD Taft	Operator	RB-JO	Filename	SDF(003).cpt
Job Number	402965003	Cone Number	DDG1418	GPS	
Hole Number	CPT-03	Date and Time	1/5/2018 12:43:25 PM	Maximum Depth	65.45 ft
EST GW Depth During Test		7.80 ft			

Net Area Ratio .8

CPT DATA



REMARKS

Hand Auger to 5ft

Estimated GW 8ft

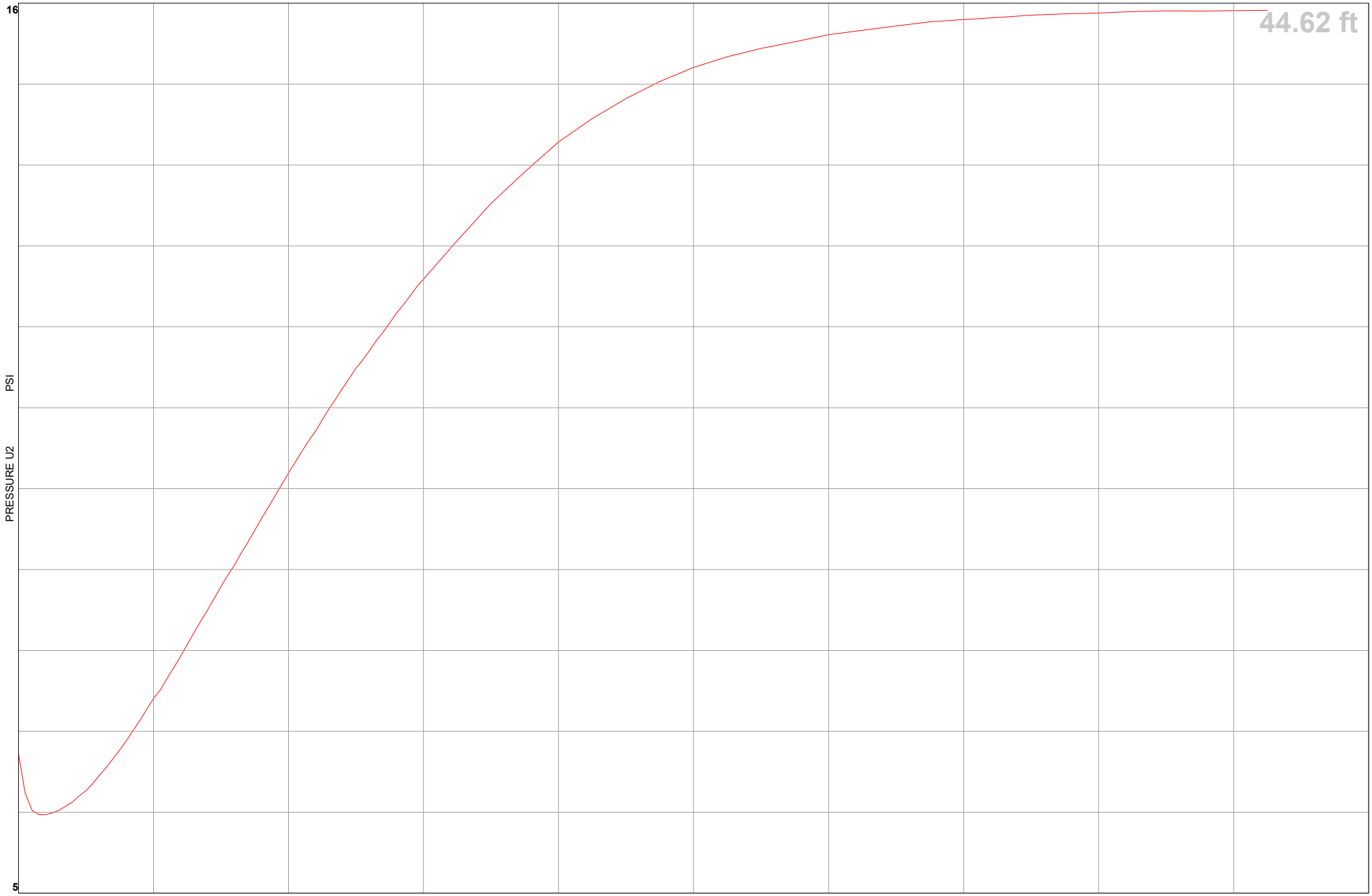
1 - sensitive fine grained	4 - silty clay to clay	7 - silty sand to sandy silt	10 - gravelly sand to sand
2 - organic material	5 - clayey silt to silty clay	8 - sand to silty sand	11 - very stiff fine grained (*)
3 - clay	6 - sandy silt to clayey silt	9 - sand	12 - sand to clayey sand (*)

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983

Ninyo & Moore

Location	RCSD Taft	Operator	RB-JO	GPS
Job Number	402965003	Cone Number	DDG1418	
Hole Number	CPT-03	Date and Time	1/5/2018 12:43:25 PM	
Equilized Pressure	15.9	EST GW Depth During Test	7.8	



APPENDIX C

Laboratory Testing

APPENDIX C

LABORATORY TESTING

Classification
Soils were visually and texturally classified in accordance with the Unified Soil Classification System (USCS) in general accordance with ASTM D 2488. Soil classifications are indicated on the logs of the exploratory borings in Appendix A.

Moisture Content
The moisture content of samples obtained from the exploratory borings was evaluated in accordance with ASTM D 2216. The test results are presented on the logs of the exploratory borings in Appendix A.

In-Place Density Tests
The dry density of relatively undisturbed samples obtained from the exploratory borings was evaluated in general accordance with ASTM D 2937. The test results are presented on the logs of the exploratory borings in Appendix A.

Gradation Analysis
Gradation analysis tests were performed on selected representative soil samples in general accordance with ASTM D 422. The grain-size distribution curves are shown on Figures C-1 through C-3. The test results were utilized in evaluating the soil classification in accordance with the Unified Soil Classification System (USCS).

Atterberg Limits
Tests were performed on a selected representative fine-grained soil sample to evaluate the liquid limit, plastic limit, and plasticity index in general accordance with ASTM D 4318. These test results were utilized to evaluate the soil classification in accordance with the USCS. The test results and classifications are shown on Figure C-4.

Expansion Index Test
The expansion index of a selected material was evaluated in general accordance with ASTM D 4829. The specimen was molded under a specified compactive energy at approximately 50 percent saturation (plus or minus 1 percent). The prepared 1 inch thick by 4 inch diameter specimen was loaded with a surcharge of 144 pounds per square foot and inundated with tap water. Readings of volumetric swell were made for a period of 24 hours. The test results are presented on Figure C-5.

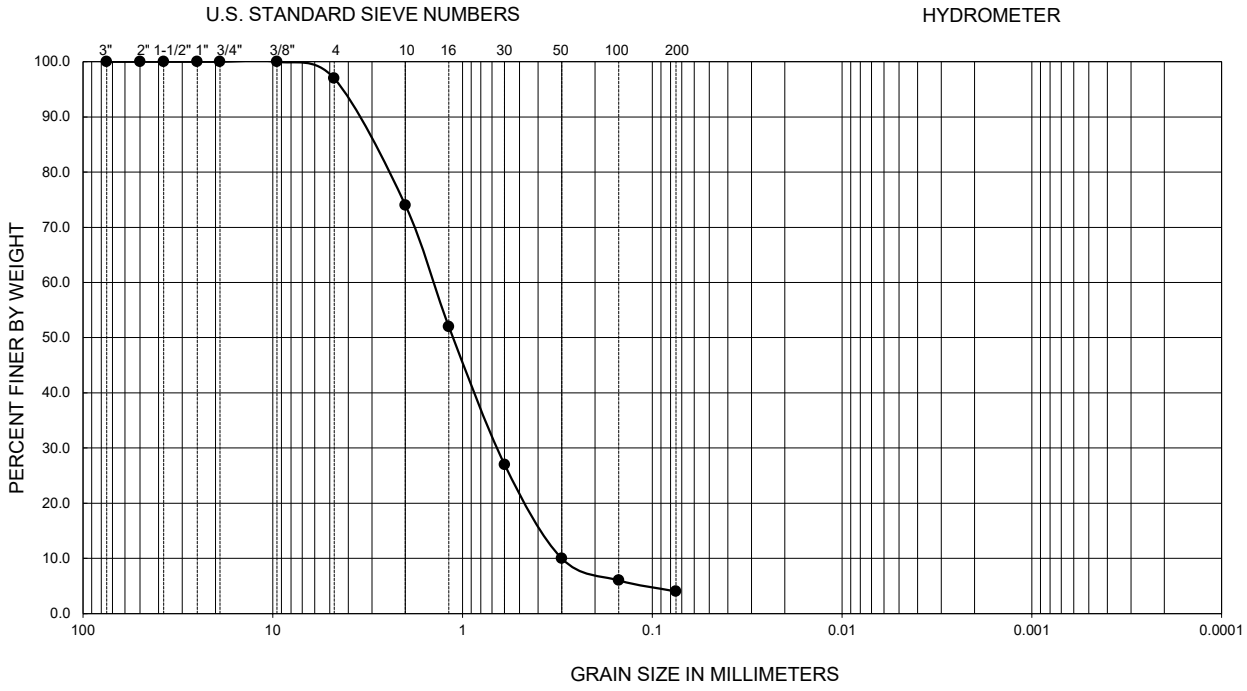
Consolidation Test
A Consolidation test was performed on a selected relatively undisturbed soil sample in general accordance with ASTM D 2435 04. The sample was inundated during testing to represent adverse field conditions. The percent of consolidation for each load cycle was recorded as a ratio of the amount of vertical compression to the original height of the sample. The results of the tests are summarized on Figure C-6.

Unconfined Compression Test
An unconfined compression test was performed on a relatively undisturbed sample in general accordance with ASTM D 2166. The test results are shown on Figure C-7.

Soil Corrosivity Tests
Soil pH, and resistivity tests were performed on a representative sample in general accordance with California Test (CT) 643. The soluble sulfate and chloride content of selected samples were evaluated in general accordance with CT 417 and CT 422, respectively. The test results are presented on Figure C-8.

R- Value Test
The resistance value, or R-value, for site soils was evaluated in general accordance with California Test (CT) 301. Samples were prepared and evaluated for exudation pressure and expansion pressure. The equilibrium R-value is reported as the lesser or more conservative of the two calculated results. The test results are shown on Figure C-9.

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (percent)	USCS
●	B-3	14.0-14.5	--	--	--	0.30	0.65	1.50	5.0	0.9	4	SP

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

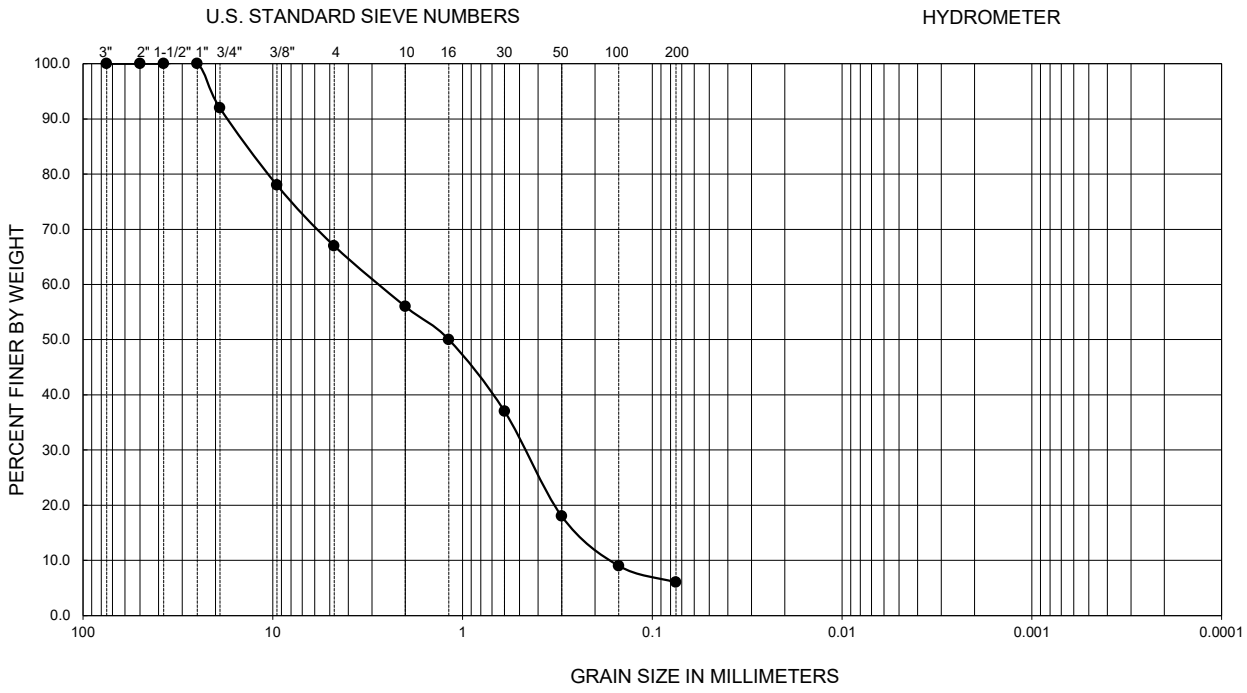
FIGURE C-1

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

GRADATION TEST RESULTS
TAFT COMMUNITY SCHOOL
903 TENTH AVENUE, REDWOOD CITY, CALIFORNIA
402965003 | 2/18

C-1 SIEVE (NEW)B-3 14-14.5'

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (percent)	USCS
●	B-3	18.5-20.0	--	--	--	0.17	0.47	2.90	17.1	0.4	6	SP-SC

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

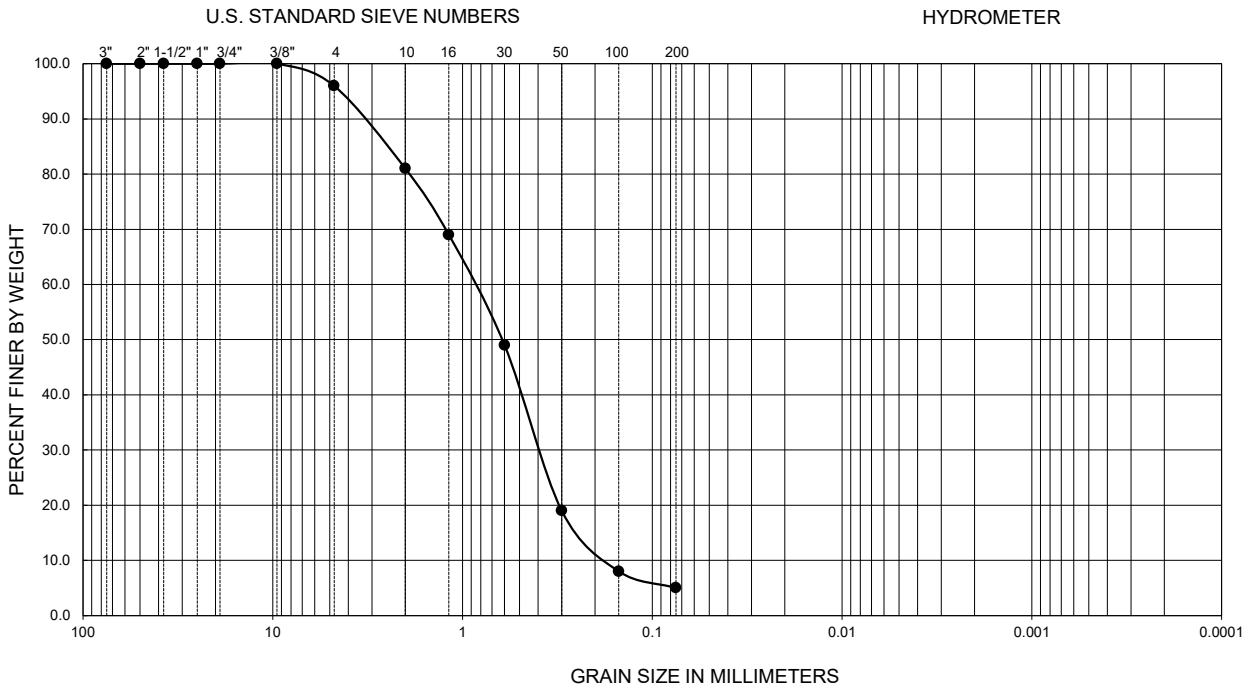
FIGURE C-2

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

GRADATION TEST RESULTS
TAFT COMMUNITY SCHOOL
903 TENTH AVENUE, REDWOOD CITY, CALIFORNIA

C-2 SIEVE (NEW)B-3 18.5-20'

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (percent)	USCS
●	B-3	23.5-25.0	--	--	--	0.19	0.30	0.85	4.5	0.6	5	SP-SC

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

FIGURE C-3

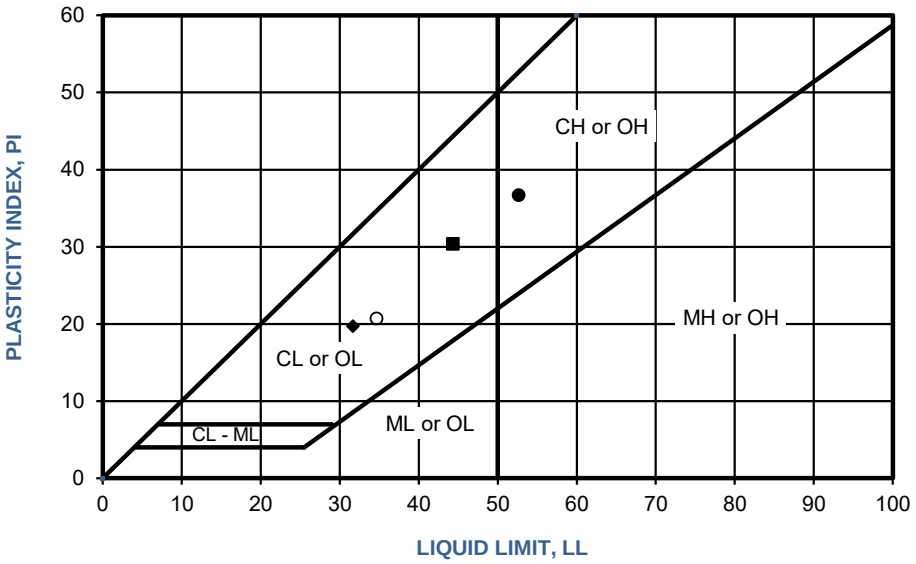
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

GRADATION TEST RESULTS
TAFT COMMUNITY SCHOOL
903 TENTH AVENUE, REDWOOD CITY, CALIFORNIA

402965003 | 2/18

C-3 SIEVE (NEW)B-3 23.5-25'

SYMBOL	LOCATION	DEPTH (ft)	LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	USCS CLASSIFICATION (Fraction Finer Than No. 40 Sieve)	USCS
●	B-4	5.5-6.0	53	16	37	CH	CH
■	B-5	9.0-9.5	44	14	30	CL	CL
◆	B-5	14.0-14.5	32	12	20	CL	CL
○	B-5	19.5-20.0	35	14	21	CL	CL



PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 4318

FIGURE C-4

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

ATTERBERG LIMITS TEST RESULTS
TAFT COMMUNITY SCHOOL
903 TENTH AVENUE, REDWOOD CITY, CALIFORNIA

402965003 | 2/18

SAMPLE LOCATION	SAMPLE DEPTH (ft)	INITIAL MOISTURE (percent)	COMPACTED DRY DENSITY (pcf)	FINAL MOISTURE (percent)	VOLUMETRIC SWELL (in)	EXPANSION INDEX	POTENTIAL EXPANSION
B-5	0.0-5.0	16.5	89.5	35.0	0.081	81	Medium

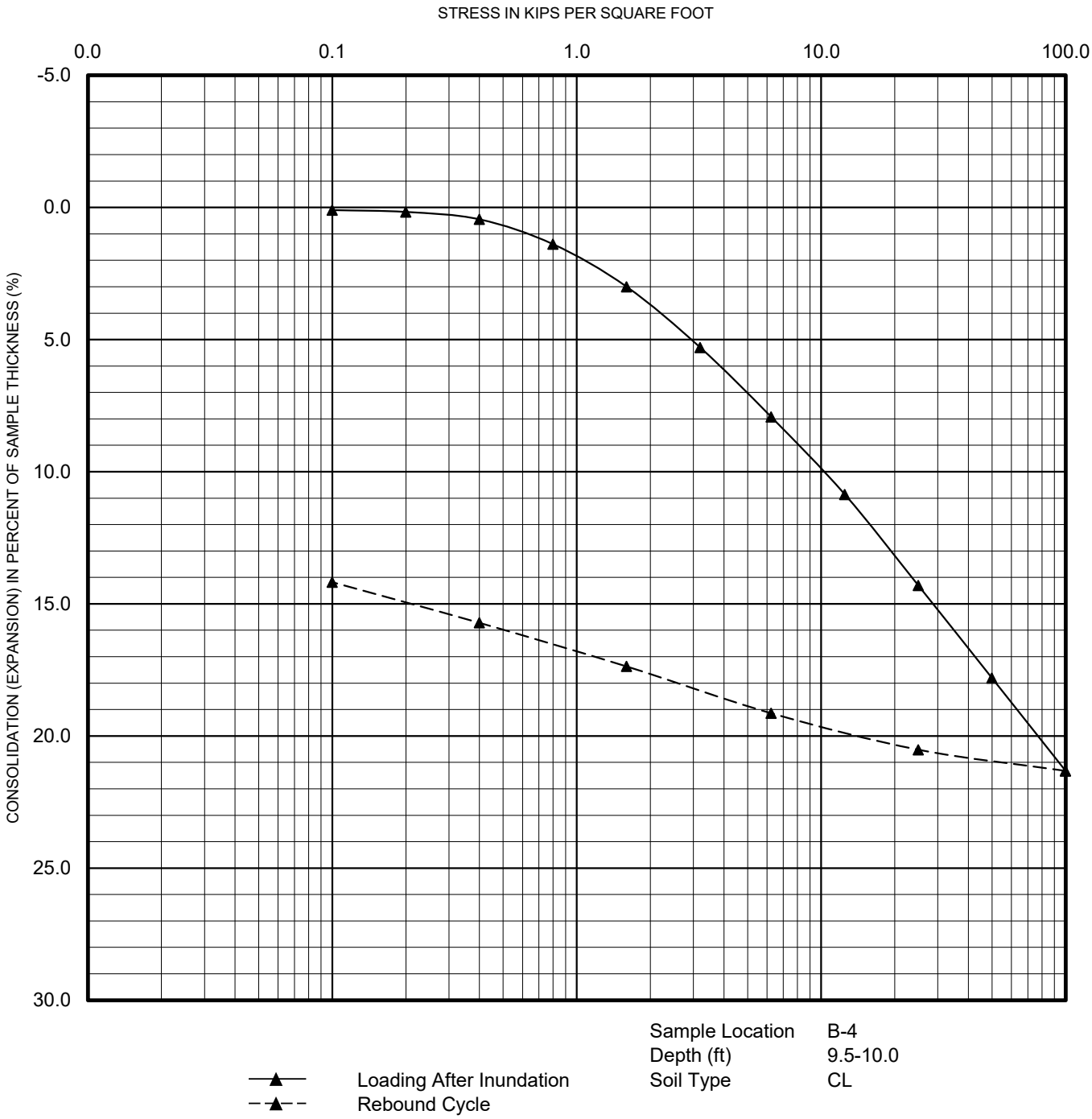
PERFORMED IN GENERAL ACCORDANCE WITH ☐ UBC STANDARD 18-2 ☑ ASTM D 4829

FIGURE C-5

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

EXPANSION INDEX TEST RESULTS
TAFT COMMUNITY SCHOOL
903 TENTH AVENUE, REDWOOD CITY, CALIFORNIA

402965003 | 2/18



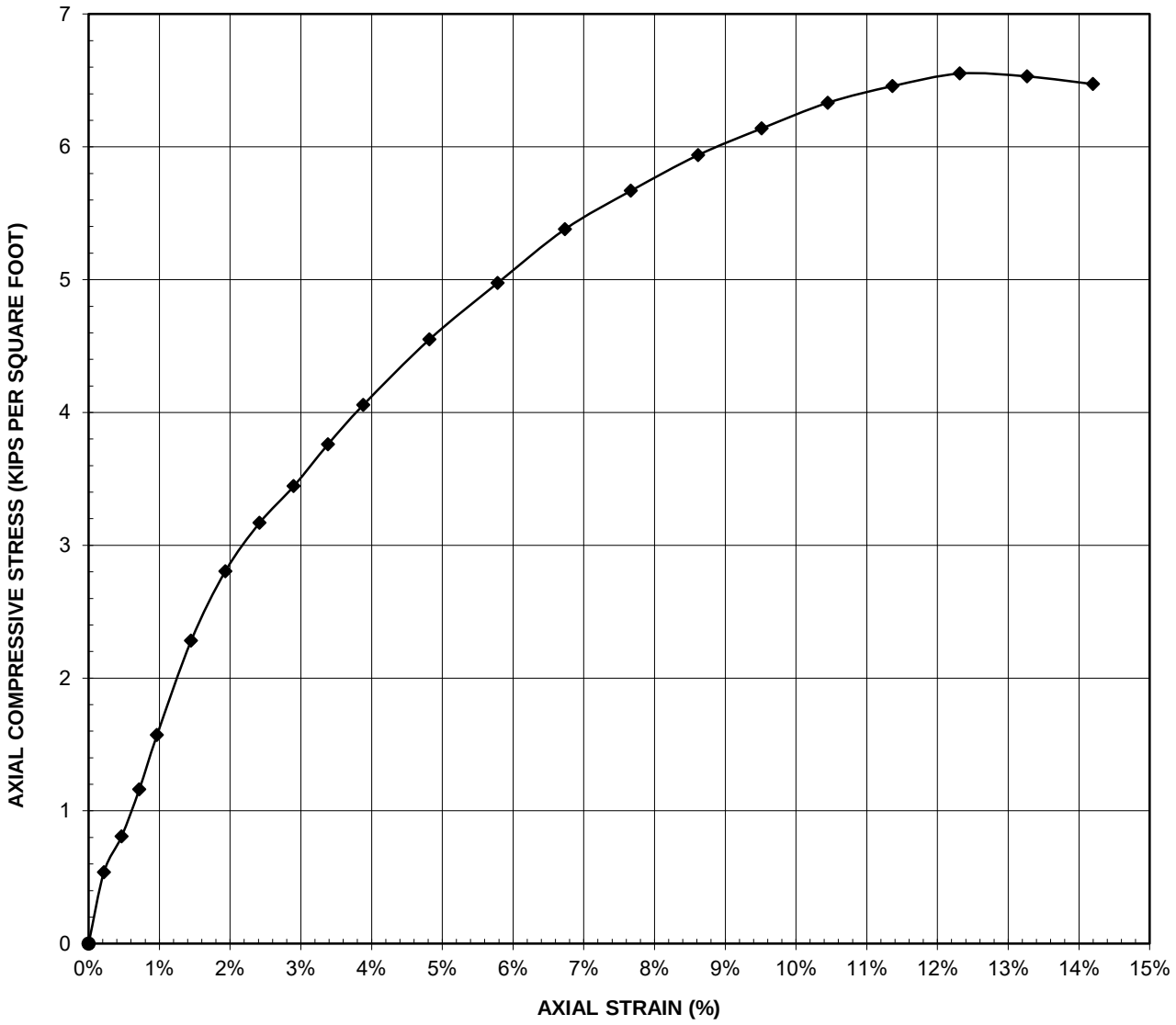
PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2435

FIGURE C-6

CONSOLIDATION TEST RESULTS
TAFT COMMUNITY SCHOOOL
903 TENTH AVENUE, REDWOOD CITY, CALIFORNIA

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

402965003 | 2/18



SYMBOL	DESCRIPTION	SOIL TYPE	SAMPLE LOCATION	SAMPLE DEPTH (ft.)	MOISTURE CONTENT w, (%)	DRY DENSITY γ_d, (pcf)	STRAIN RATE (%/min.)	UNDRAINED SHEAR STR s_u, (ksf)
◆	**Gray lean CLAY**	**CL**	**B-5**	**6.0-6.5**	**19.5**	**106.0**	**0.95**	**3.28**

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2166

FIGURE C-7

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

UNCONFINED COMPRESSION RESULTS
TAFT COMMUNITY SCHOOL
903 TENTH STREET, REDWOOD CITY, CALIFORNIA

SAMPLE LOCATION	SAMPLE DEPTH (ft)	pH [1]	RESISTIVITY [1] (ohm-cm)	SULFATE CONTENT [2]		CHLORIDE CONTENT [3] (ppm)
				(ppm)	(%)	
B-5	0.0-5.0	7.2	570	280	0.028	225

[1] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 643
[2] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 417
[3] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 422

FIGURE C-8

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

CORROSIVITY TEST RESULTS
TAFT COMMUNITY SCHOOL
903 TENTH AVENUE, REDWOOD CITY, CALIFORNIA

402965003 | 2/18

SAMPLE LOCATION	SAMPLE DEPTH (ft)	SOIL TYPE	R-VALUE
B-5	0.0-3.0	CL	7

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2844/CT 301

FIGURE C-9

R-VALUE TEST RESULTS

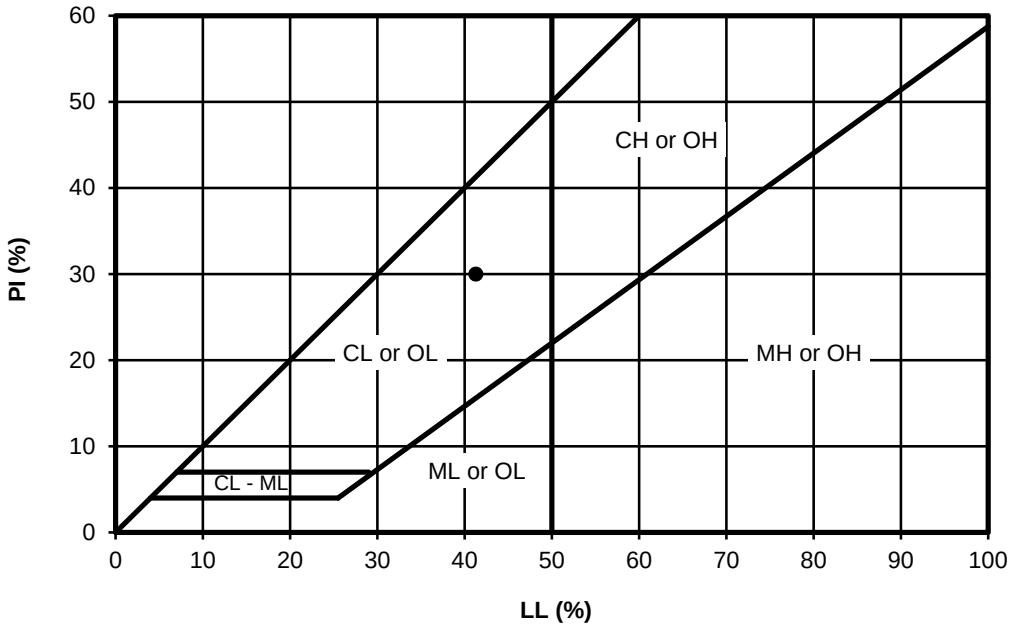
TAFT COMMUNITY SCHOOL
903 TENTH AVENUE, REDWOOD CITY, CALIFORNIA

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

APPENDIX D

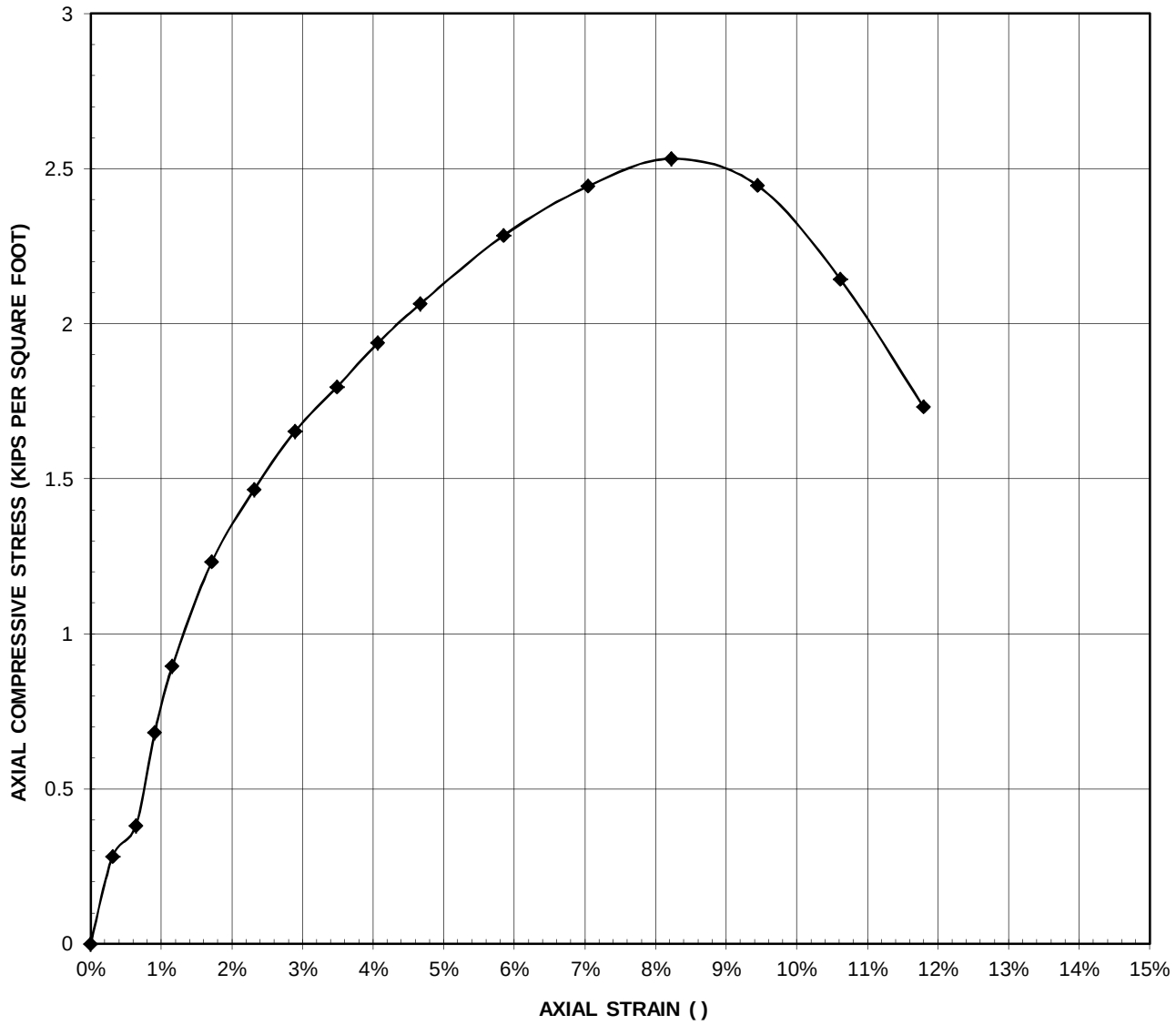
Previous Laboratory Testing

SYMBOL	LOCATION	DEPTH (FT)	LIQUID LIMIT, LL (%)	PLASTIC LIMIT, PL (%)	PLASTICITY INDEX, PI (%)	USCS CLASSIFICATION (Fraction Finer Than No. 40 Sieve)	USCS (Entire Sample)
●	B-1	5.0-6.5	41	11	30	CL	CL



PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 4318

Ninyo & Moore	ATTERBERG LIMITS TEST RESULTS	FIGURE
PROJECT NO. 402965003 / DATE 3/17	TAFT COMMUNITY SCHOOL 903 TENTH AVENUE REDWOOD CITY, CALIFORNIA	D-1



SYMBOL	DESCRIPTION	SOIL TYPE	SAMPLE LOCATION	SAMPLE DEPTH (ft.)	MOISTURE CONTENT w, (%)	DRY DENSITY γ_d, (pcf)	STRAIN RATE (%/min.)	UNDRAINED SHEAR STR s_u, (ksf)
◆	Light brown lean CLAY	CL	B-2	7.5-8.0	22.8	101.6	1.17	1.27

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2166

Ninyo & Moore	UNCONFINED COMPRESSION RESULTS	FIGURE
PROJECT NO. / DATE	TAFT COMMUNITY SCHOOL 903 TENTH AVENUE REDWOOD CITY, CALIFORNIA	D-2
402965003 / 3/17		

SAMPLE LOCATION	SAMPLE DEPTH (FT)	pH [1]	RESISTIVITY [1] (Ohm-cm)	SULFATE CONTENT [2]		CHLORIDE CONTENT [3] (ppm)
				(ppm)	(%)	
B-1	2.0-3.5	7.6	640	10	0.001	290

[1] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 643
[2] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 417
[3] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 422

Ninyo & Moore	CORROSIVITY TEST RESULTS	FIGURE
PROJECT NO. 402965003 / DATE 3/17	TAFT COMMUNITY SCHOOL 903 TENTH AVENUE REDWOOD CITY, CALIFORNIA	D-3

APPENDIX E

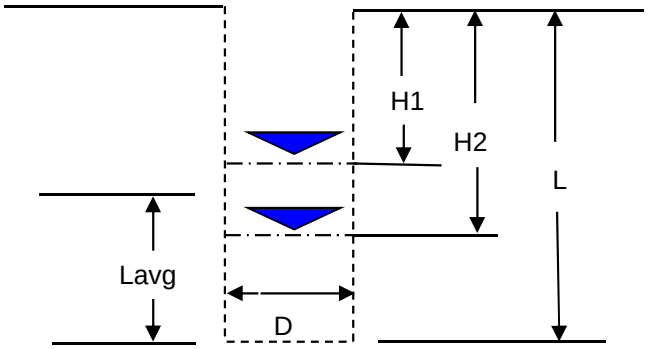
Percolation Testing

Percolation Test Data Sheet (in Borings)

Project =	RCSD/Taft School
Project No. =	402965003

Depth of Test Hole, L (ft) =	2.0
Diameter, D (in) =	4.0
Initial Water Depth, d1 (in) =	18.0
Average/Final Water Level Drop, Δd (in) =	2.3
Reduction factor, Rf =	9.4

Test Hole No.	Time (hr:min)	Elapsed Time (min)	Water Level (in)	Change in Water Level (in)	Time Interval (hour)	Pre-Adjusted Percolation Rate (inch/hour)	Adjusted Percolation Rate (inch/hour)
P-1	9:12		6.00				
	9:27	15	10.00	4.00	0.25	16.0	1.70E+00
	9:28		6.00				
	9:43	15	9.25	3.25	0.25	13.0	1.38E+00
	9:44		6.00				
	9:59	15	8.75	2.75	0.25	11.0	1.17E+00
	10:00		6.00				
	10:15	15	8.50	2.50	0.25	10.0	1.06E+00
	10:16		6.00				
	10:31	15	8.50	2.50	0.25	10.0	1.06E+00
	10:32		5.00				
	10:47	15	7.75	2.75	0.25	11.0	1.17E+00
	10:49		6.00				
	11:04	15	8.50	2.50	0.25	10.0	1.06E+00
	11:05		6.00				
	11:20	15	8.25	2.25	0.25	9.0	9.54E-01
	11:21		6.00				
	11:36	15	8.25	2.25	0.25	9.0	9.54E-01
	11:37		6.00				
	11:52	15	8.25	2.25	0.25	9.0	9.54E-01
	11:54		6.00				
	12:09	15	8.25	2.25	0.25	9.0	9.54E-01
	12:11		6.00				
	12:26	15	8.25	2.25	0.25	9.0	9.54E-01



d1 = L - H1 (in inches)

APPENDIX F

Geophysical Seismic Survey Results

SEISMIC SITE CLASSIFICATION

A seismic survey using passive surface wave techniques was performed at the Taft School campus on January 5, 2018. The purpose of the study was to evaluate the subsurface shear-wave velocity at the site. The method provided a shear wave velocity model to a depth of approximately 100 feet below the ground surface (bgs) and V_s100 for seismic site classification (IBC, 2012). The passive seismic method carried out included Micro-tremor Array Measurements (MAM) and consisted of a linear profile of seismic data collection (Line 1). Line 1 was generally oriented north to south and located on the grass playfield next to the blacktop playground as shown on Figure 2. The following sections provide a summary of the methods and analyses used in our study. The seismic model results are provided on Figure F-1.

FIELD METHODS

A Geode 24–Channel Seismograph (Geometrics Inc., San Jose, CA) was used for the MAM survey. 4.5 Hertz (Hz) vertical component geophone were placed every 10 feet for a total profile length of 230 feet. Approximately twenty-five records were collected, with a record length of 30 seconds (s) and a 2 millisecond (ms) sampling interval. The field data were digitally recorded in SEG2 format, reviewed in the field for data quality, saved to a hard disk, and documented.

DATA PROCESSING AND MODELING

The MAM seismic data were processed using SeisImager (Geometrics Inc., San Jose, CA) seismic processing software. The dispersive characteristics of surface waves are used to evaluate the subsurface velocity at depth. Longer wavelength (longer-period and lower-frequency) surface waves travel deeper and thus contain more information about deeper velocity structure. Shorter wavelength (shorter-period and higher-frequency) surface waves travel relatively shallow within the earth and thus contain more information about velocity closer to the surface. The dispersion is dependent on the material properties, such as surface wave velocity, relative material densities, and Poisson's ratio. An inversion is performed on the collected passive seismic shear wave records within SeisImager to produce a model of the variation in shear wave velocities with depth. The following data processing flow was used to calculate Average Shear-wave Velocities (AVS) to a depth of approximately 100 feet (V_s100).

- Collated records into list file and edited any bad channels or records,
- Applied 2D Spatial Auto Correlation (SPAC); using a linear array and 24 geophones at 10 feet spacing,

- Phase velocity frequency transformation from 2 to 20 Hz
- Automated velocity picks of raw phase velocity were calculated and updated manually,
- Created an initial model and carried out a non-linear Least Squares Method (LSM) inversion to produce a final shear wave velocity model; convergence of the inversion was judged whether the model achieved an RMS <5% within 5-7 iterations,
- Calculated V_s100 using final shear wave velocity model.

RESULTS

Shear wave data resolution generally decreases with depth, due to the loss of sensitivity of the dispersion curve to changes in shear wave velocity as depth increases. Our MAM seismic modeling results are provided on Figure F-1. The results in Figure F-1 indicate our interpretation of the approximate changes in shear wave velocity with depth across the surveyed location.

The model results indicate V_s100 values of 760 feet/sec for Line 1. Accordingly, the site is considered to have a Seismic Site Classification of Class D.

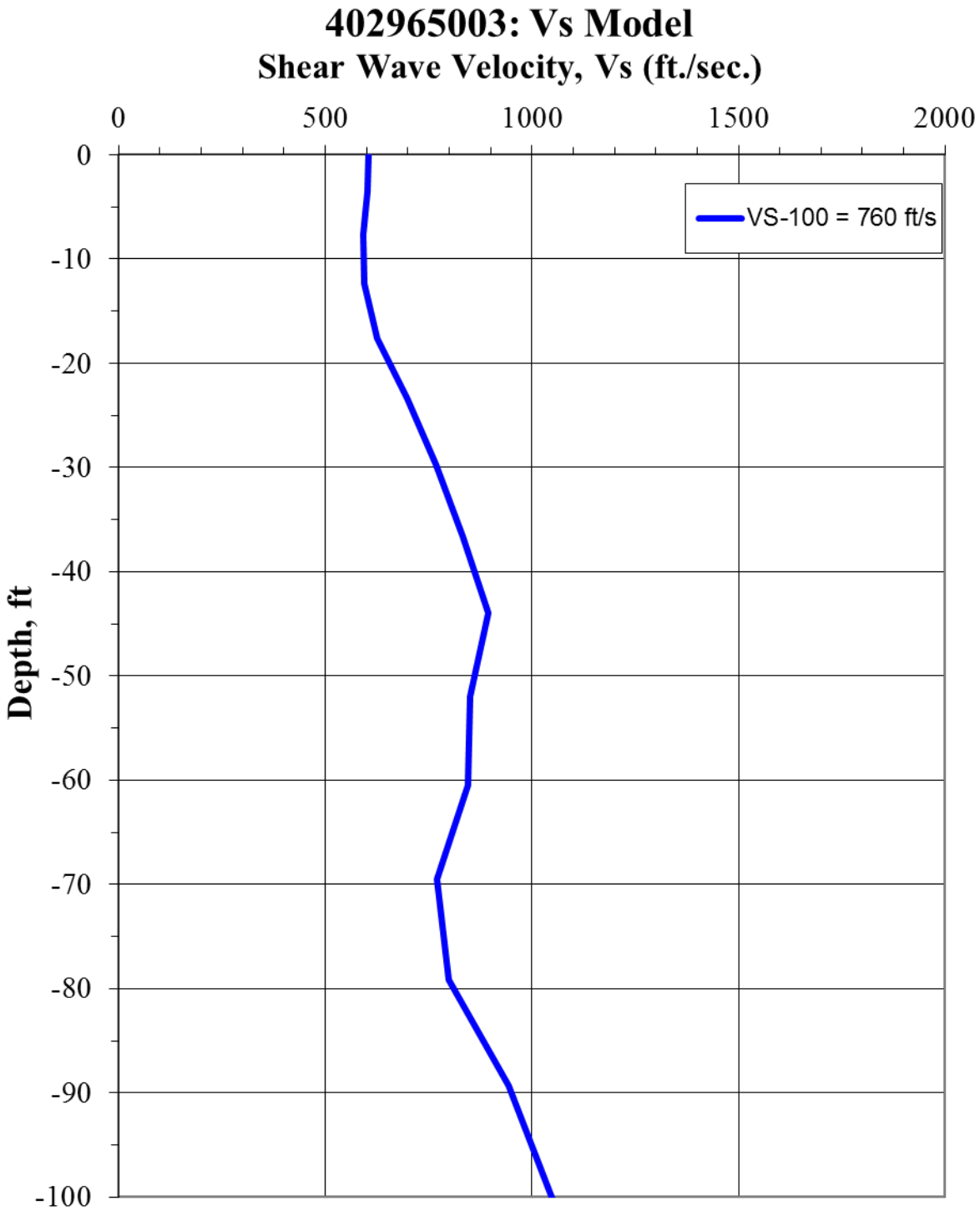


Figure F-1. MAM shear wave velocity model results for the Taft Community School

APPENDIX G

Calculations

LIQUEFACTION AND DYNAMIC SETTLEMENT EVALUATION BY CPT

Project Name:	Taft Community School		
Project Number:	402965003		
Calculation By:	KCC	Date:	1/8/2018
Checked By:		Date:	

CPT Sounding: CPT-1
Location: CPT-1

Depth to GWT during CPT evaluation (ft)	8
Design Depth to GWT (ft)	8
Atmospheric Pressure (tsf)	1.0581
Design EQ Peak Ground Acceleration, amax (g)	0.606
Design Earthquake Moment Magnitude, Mw	8
Magnitude Scaling Factor, MSF	0.85
At-Rest Coefficient Lateral EP, Ko	0.5
Number of Strain Cycles, Nc	20.25

Estimated dry soil dynamic settlement (in)	0.00
Estimated saturated soil dynamic settlement (in)	0.51
Total estimated dynamic settlement (in)	0.51

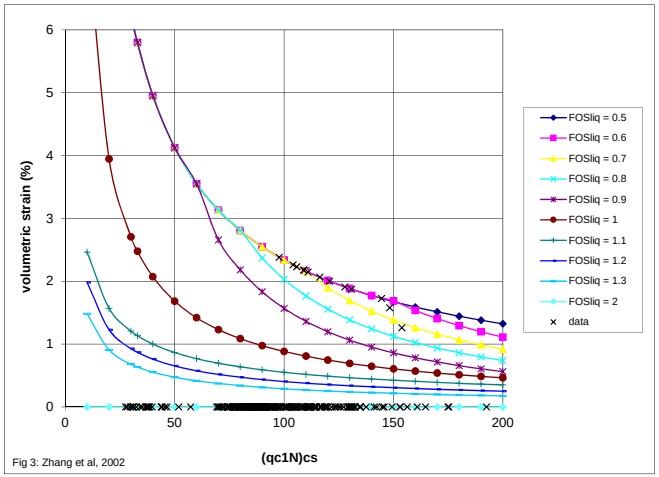
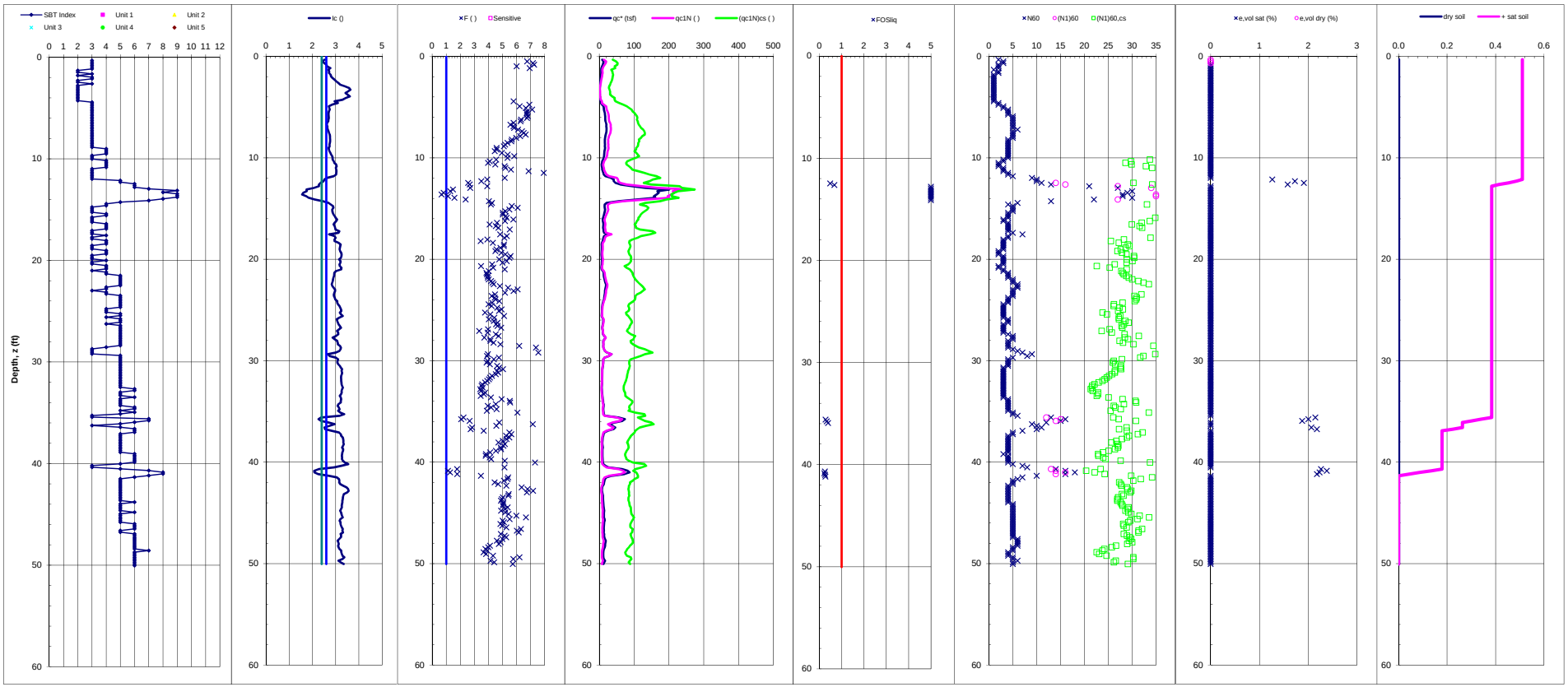


Fig 3: Zhang et al, 2002



LIQUEFACTION AND DYNAMIC SETTLEMENT EVALUATION BY CPT

Project Name:	Taft Community School		
Project Number:	402965003		
Calculation By:	KCC	Date:	1/8/2018
Checked By:		Date:	

CPT Sounding: CPT-2
Location: CPT-2

Depth to GWT during CPT evaluation (ft)	8
Design Depth to GWT (ft)	7
Atmospheric Pressure (tsf)	1.0581
Design EQ Peak Ground Acceleration, amax (g)	0.606
Design Earthquake Moment Magnitude, Mw	8
Magnitude Scaling Factor, MSF	0.85
At-Rest Coefficient Lateral EP, Ko	0.5
Number of Strain Cycles, Nc	20.25

Estimated dry soil dynamic settlement (in)	0.01
Estimated saturated soil dynamic settlement (in)	0.27
Total estimated dynamic settlement (in)	0.27

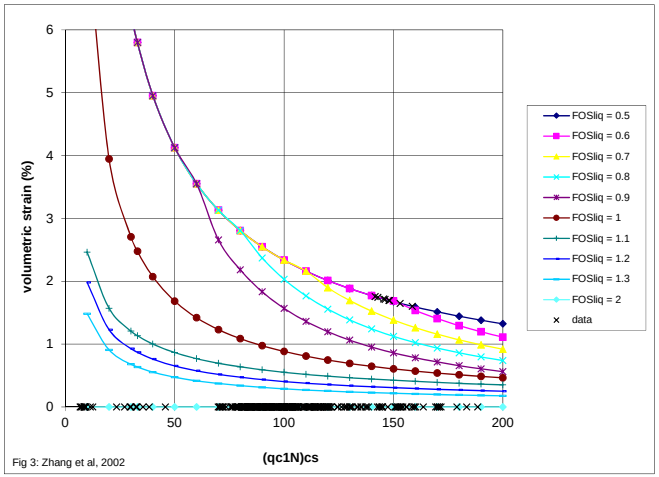
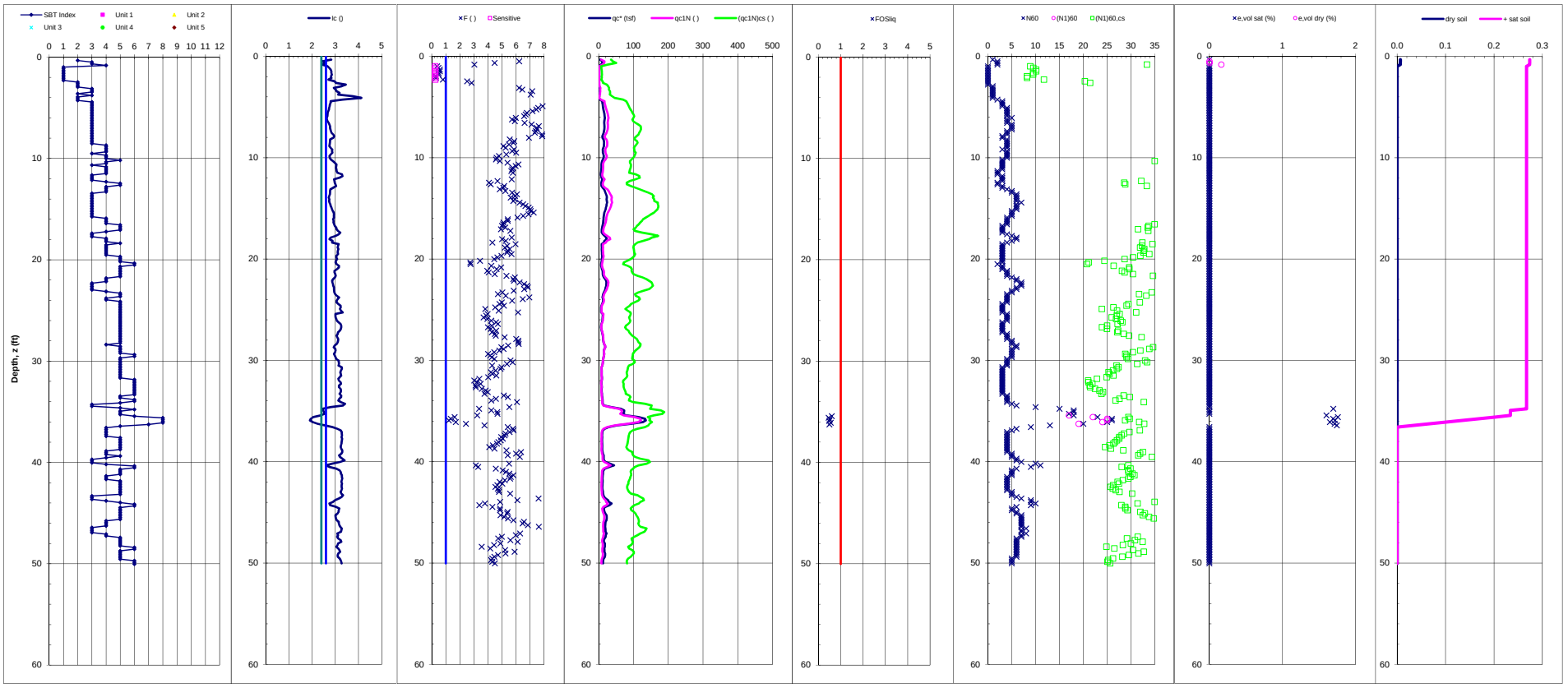


Fig 3: Zhang et al, 2002



LIQUEFACTION AND DYNAMIC SETTLEMENT EVALUATION BY CPT

Project Name:	Taft Community School		
Project Number:	402965003		
Calculation By:	KCC	Date:	1/8/2018
Checked By:		Date:	

CPT Sounding: CPT-3
Location: CPT-3

Depth to GWT during CPT evaluation (ft)	8
Design Depth to GWT (ft)	7
Atmospheric Pressure (tsf)	1.0581
Design EQ Peak Ground Acceleration, amax (g)	0.606
Design Earthquake Moment Magnitude, Mw	8
Magnitude Scaling Factor, MSF	0.85
At-Rest Coefficient Lateral EP, Ko	0.5
Number of Strain Cycles, Nc	20.25

Estimated dry soil dynamic settlement (in)	0.00
Estimated saturated soil dynamic settlement (in)	0.25
Total estimated dynamic settlement (in)	0.25

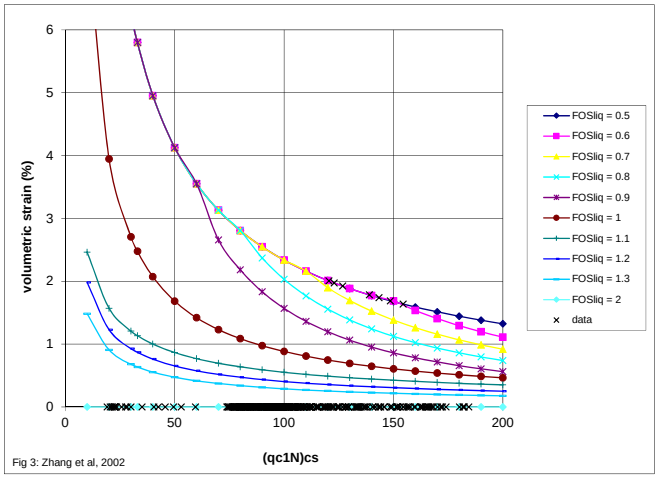
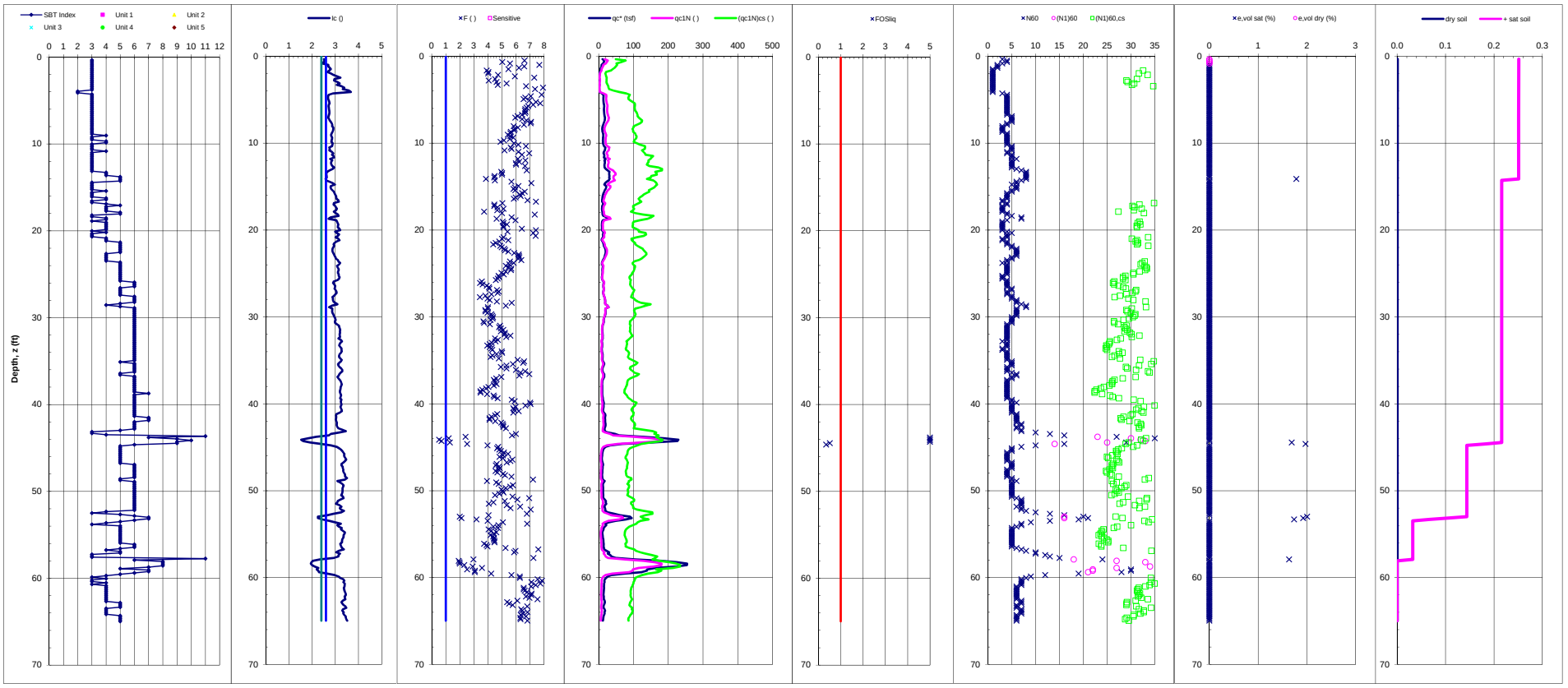


Fig 3: Zhang et al, 2002

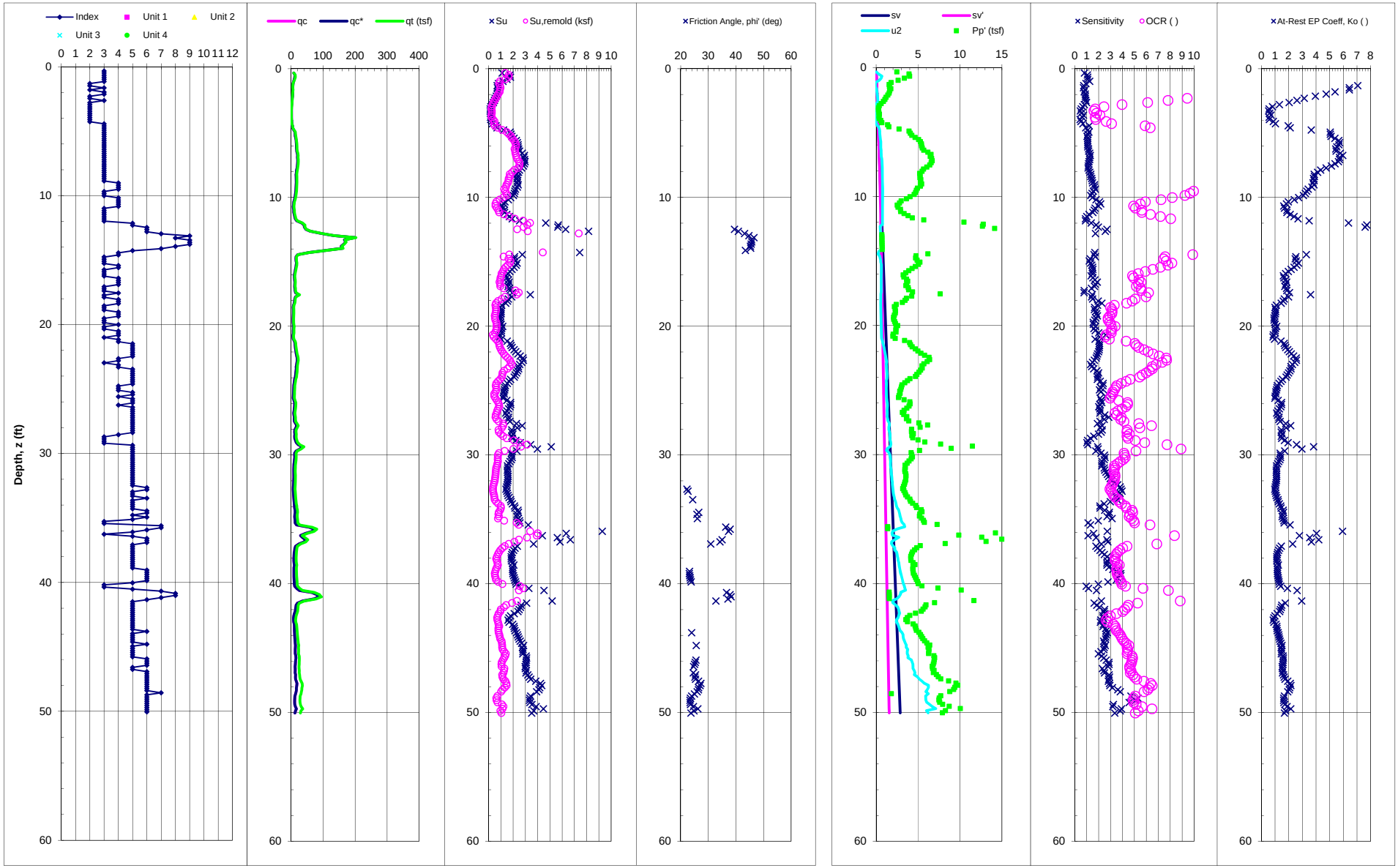


CONE PENETRATION TEST DATA

CPT Sounding: CPT-1
Location:

Elevation at top of sounding (ft, MSL)	16
Depth to GWT during CPT evaluation (ft)	8
Cone Diameter, dc (mm)	43.7
Net End Area Ratio ( )	0.80
Atmospheric Pressure (tsf)	1

Project Name:	Taft Community School		
Project Number:	402965003		
Calculation By:	KCC	Date:	1/8/2018
Checked By:		Date:	

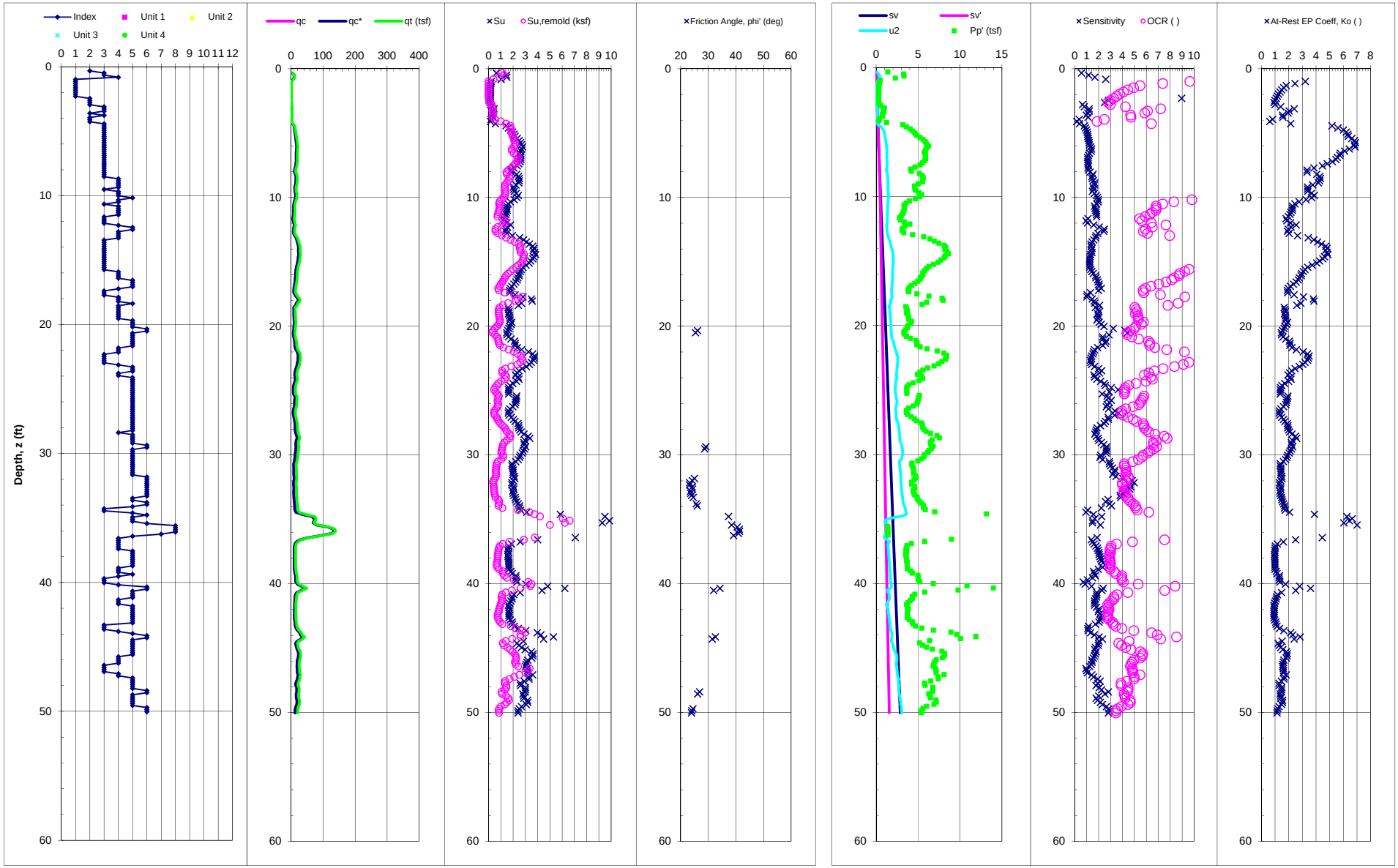


CONE PENETRATION TEST DATA

CPT Sounding: CPT-2
Location:

Elevation at top of sounding (ft, MSL)	15
Depth to GWT during CPT evaluation (ft)	8
Cone Diameter, dc (mm)	43.7
Net End Area Ratio ( )	0.80
Atmospheric Pressure (tsf)	1

Project Name:	Taft Community School		
Project Number:	402965003		
Calculation By:	KCC	Date:	1/8/2018
Checked By:		Date:	

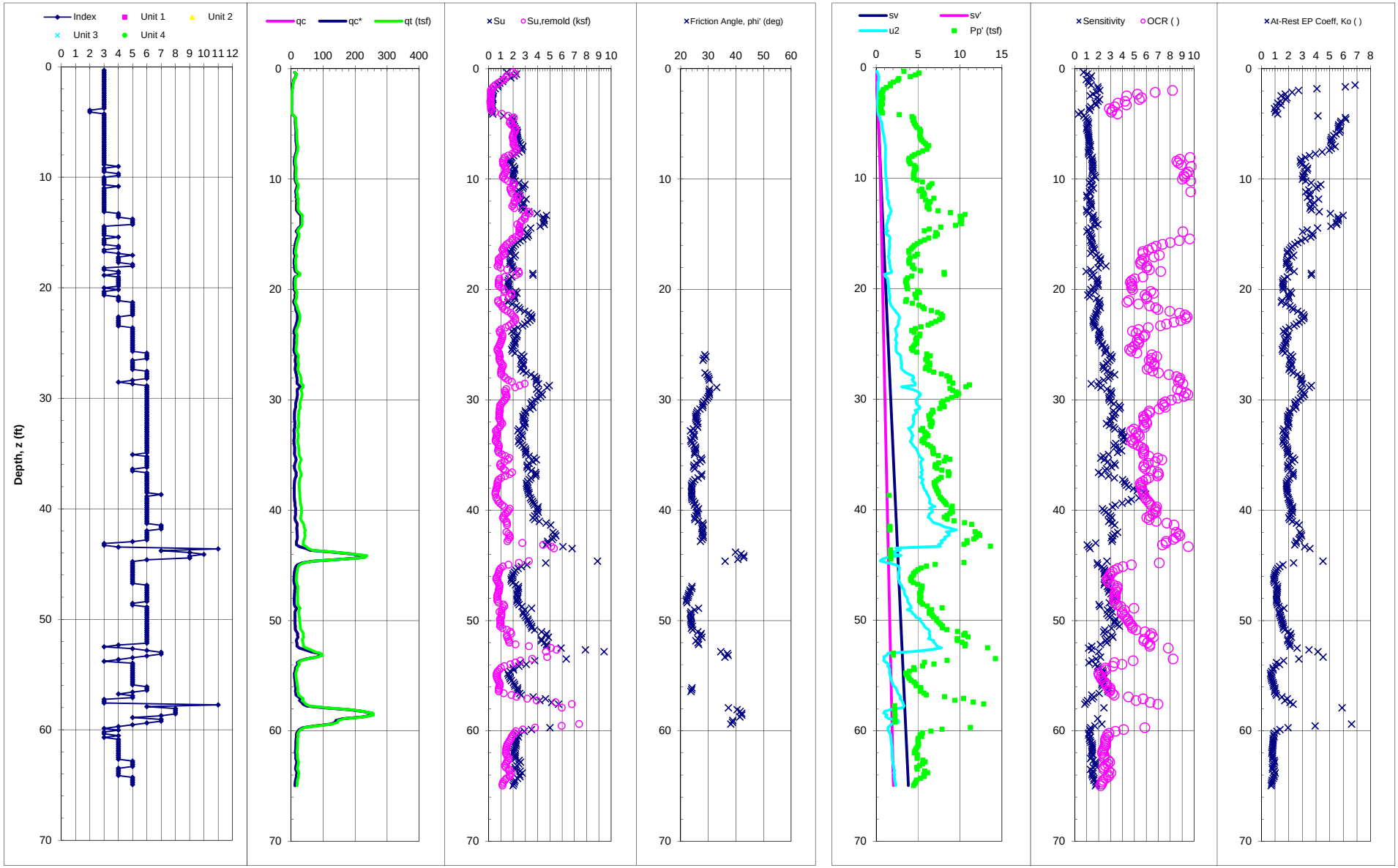


CONE PENETRATION TEST DATA

CPT Sounding: CPT-3
Location:

Elevation at top of sounding (ft, MSL)	15
Depth to GWT during CPT evaluation (ft)	8
Cone Diameter, dc (mm)	43.7
Net End Area Ratio ( )	0.80
Atmospheric Pressure (tsf)	1

Project Name:	Taft Community School		
Project Number:	402965003		
Calculation By:	KCC	Date:	1/8/2018
Checked By:		Date:	



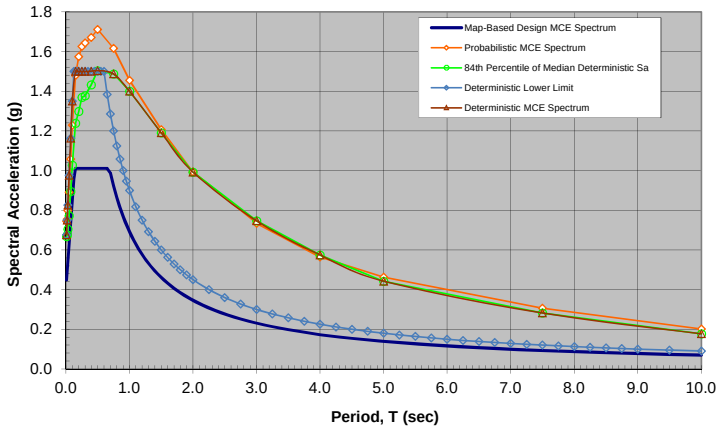
		Spectral Response Mapped Values		Site Coefficients		Spectral Response Adjusted for Site Effects		Design Spectral Response		Period at 0.2*Ts	Period at S_{D1}/S_{DS}	Long-Period Transition
Vs30	Site Class	Ss	S1	Fa	Fv	Sms	Sm1	Sds	Sd1	To	Ts	T_L
231.65	D	1.517	0.692	1.000	1.500	1.517	1.038	1.011	0.692	**0.137**	**0.684**	12.0
(m/sec)		1.5	0.600	1.000	1.500	1.500	0.900	1.000	0.600	0.120	0.600	12.0

Risk Coefficients		$\frac{(C_{RS}-C_{R1})}{0.8}$	PGA Site Coefficient	Mapped Adjusted PGA	ASCE 7-10 Sec. 21.5
C_{RS}	C_{R1}	Ratio	F_{PGA}	PGA_M	PGA
1.011	0.957	-0.0675	1.000	0.609	0.606

Probabilistic MCE Spectrum 2% chance of exceedance in 50 years with 5% damping using OPENSHA						Probabilistic MCE_R Spectrum		DSHA Spectral Response 84th Percentile of Median Sa						Det. Limit on Response Spectrum	Deterministic MCE_R Spectrum	Site-Specific MCE_R
	Chiou & Youngs (2008) GMRotl50	Campbell & Bozorgnia (2008) GMRotl50	Boore & Atkinson (2008) GMRotl50	Max Horz Direction Response to Geomean	Average x Max Horz Direction to Geomean	Risk targeted for 1% chance of collapse in 50 years, using Method 1 (ASCE 7-10 Sec 21.2.1.1)		Chiou & Youngs (2008) GMRotl50	Campbell & Bozorgnia (2008) GMRotl50	Boore & Atkinson (2008) GMRotl50	Max Horz Direction Response to Geomean	Average x Max Horz Direction to Geomean	x(y84/y50) for 84th Percentile Sa	Fig. 21.2-1 ASCE 7-10 Sec. 21.2.2	Maximum between 84th percentile Sa and Det. Limit	
Period	CY_Sa	CB_Sa	BA_Sa	Max/Mean	PMH_Sa	Period	PMCER_Sa	CY_Sa	CB_Sa	BA_Sa	Max/Mean	DMH_Sa	DMH84_Sa	DL_Sa	DMCER_Sa	SaM
0.01	0.702	0.559	0.750	1.10	0.738	0.01	0.746	0.394	0.289	0.317	1.10	0.366	0.667	0.675	0.675	0.675
0.02	0.717	0.561	0.757	1.10	0.746	0.02	0.755	0.401	0.290	0.322	1.10	0.371	0.676	0.750	0.750	0.750
0.03	0.760	0.589	0.807	1.10	0.790	0.03	0.799	0.418	0.299	0.341	1.10	0.388	0.706	0.825	0.825	0.799
0.05	0.842	0.673	0.886	1.10	0.880	0.05	0.890	0.459	0.331	0.368	1.10	0.425	0.773	0.975	0.975	0.890
0.075	0.952	0.830	1.074	1.10	1.047	0.075	1.059	0.526	0.384	0.430	1.10	0.492	0.895	1.163	1.163	1.059
0.1	1.076	0.976	1.262	1.10	1.215	0.1	1.229	0.600	0.441	0.499	1.10	0.565	1.028	1.350	1.350	1.229
0.15	1.282	1.159	1.551	1.10	1.464	0.15	1.480	0.715	0.516	0.625	1.10	0.681	1.239	1.500	1.500	1.480
0.2	1.382	1.244	1.623	1.10	1.558	0.2	1.575	0.772	0.568	0.605	1.10	0.713	1.298	1.500	1.500	1.500
0.25	1.441	1.274	1.684	1.10	1.613	0.25	1.625	0.802	0.585	0.662	1.10	0.751	1.370	1.500	1.500	1.500
0.3	1.471	1.295	1.700	1.10	1.638	0.3	1.645	0.818	0.594	0.645	1.10	0.754	1.378	1.500	1.500	1.500
0.4	1.468	1.294	1.607	1.15	1.675	0.4	1.671	0.827	0.595	0.617	1.15	0.782	1.433	1.500	1.500	1.500
0.5	1.433	1.353	1.534	1.20	1.728	0.5	1.712	0.823	0.637	0.584	1.20	0.817	1.504	1.500	1.504	1.504
0.75	1.331	1.299	1.355	1.25	1.660	0.75	1.617	0.768	0.616	0.531	1.25	0.798	1.487	1.200	1.487	1.487
1	1.230	1.204	1.075	1.30	1.520	1	1.455	0.709	0.577	0.424	1.30	0.741	1.400	0.900	1.400	1.400
1.5	0.993	1.051	0.866	1.30	1.261	1.5	1.207	0.577	0.509	0.345	1.30	0.620	1.191	0.600	1.191	1.191
2	0.809	0.899	0.690	1.30	1.039	2	0.994	0.459	0.439	0.276	1.30	0.509	0.993	0.450	0.993	0.993
3	0.545	0.630	0.529	1.35	0.767	3	0.734	0.301	0.309	0.236	1.35	0.381	0.746	0.300	0.746	0.734
4	0.390	0.478	0.394	1.40	0.589	4	0.564	0.209	0.236	0.176	1.40	0.290	0.574	0.225	0.574	0.564
5	0.287	0.426	0.323	1.40	0.484	5	0.463	0.151	0.197	0.131	1.40	0.223	0.442	0.180	0.442	0.442
7.5	0.136	0.321	0.228	1.40	0.320	7.5	0.306	0.071	0.142	0.092	1.40	0.142	0.282	0.120	0.282	0.282
10	0.072	0.271	0.109	1.40	0.211	10	0.202	0.037	0.113	0.041	1.40	0.089	0.177	0.090	0.177	0.177

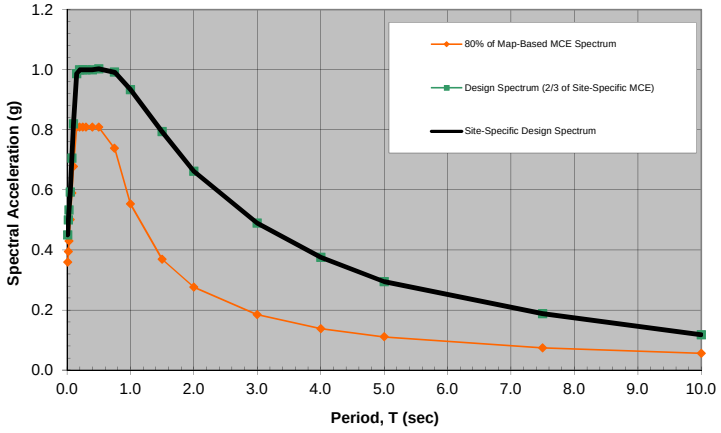
Site-Specific Spectral Response Acceleration Parameters				
	S_{DS}	1.000	S_{MS}	1.500
	S_{D1}	1.323	S_{M1}	1.985

Summary of Response Spectra



Map-Based Design MCE Spectrum		80% Map-Based Design Spectrum	2/3*Site-Specific MCE_R Spectrum	Site-Specific Design Spectrum
Period	Sa	Sa	Sa	Sa
0.01	0.449	0.359	0.450	0.450
0.02	0.493	0.395	0.500	0.500
0.03	0.538	0.430	0.533	0.533
0.05	0.626	0.501	0.593	0.593
0.075	0.737	0.590	0.706	0.706
0.1	0.848	0.678	0.819	0.819
0.15	1.011	0.809	0.987	0.987
0.2	1.011	0.809	1.000	1.000
0.25	1.011	0.809	1.000	1.000
0.3	1.011	0.809	1.000	1.000
0.4	1.011	0.809	1.000	1.000
0.5	1.011	0.809	1.003	1.003
0.75	0.923	0.738	0.992	0.992
1	0.692	0.554	0.933	0.933
1.5	0.461	0.369	0.794	0.794
2	0.346	0.277	0.662	0.662
3	0.231	0.185	0.489	0.489
4	0.173	0.138	0.376	0.376
5	0.138	0.111	0.295	0.295
7.5	0.092	0.074	0.188	0.188
10	0.069	0.055	0.118	0.118

Site-Specific Design Response Spectrum



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Appendix H
Phase I Environmental Site Assessment

Phase I Environmental Site Assessment

Taft Community School

903 10th Avenue
Redwood City, San Mateo County, CA 94063

Prepared for:

Redwood City School District
Redwood City, California

June 30, 2017

Prepared by:

McCloskey Consultants, Inc.

McCloskey Consultants
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Taft Community School

903 10th Avenue
Redwood City, San Mateo County, CA 94063

June 30, 2017

Prepared for:

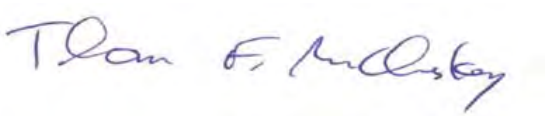
Redwood City School District

Prepared by:

McCloskey Consultants, Inc.

420 Sycamore Valley Road West

Danville, CA 94526



Belinda P. Blackie, P.E.
Senior Project Engineer

Thomas F. McCloskey, P.G., C.E.G., C.Hg.
Principal Geologist

EXECUTIVE SUMMARY

The Redwood City School District (RCSD) retained McCloskey Consultants, Inc. to perform a Phase I Environmental Site Assessment (ESA) for the renovation/redevelopment on a portion of the 7.56-acre (329,314-square-foot) Taft Community School (Site). Taft Community School is located at 903 10th Avenue, in Redwood City, San Mateo County, California. The purpose of this assessment was to identify Recognized Environmental Conditions (RECs) associated with the property as defined by ASTM E 1527-13, Standard Practice for Environmental Site Assessments.

The initial Taft School building was constructed on the Site in 1947, followed by the other classroom buildings and library between 1948 and 1953. The northern area of the Site was undeveloped prior to construction of a small building on the northeastern portion in the mid-1960s and the existing Taft Family Center structure in 1968. The buildings were modified throughout the 1990s, and the Taft Child Development Center structure was completed in 1999. A natural gas boiler previously was located within the HVAC enclosure behind the library; the boiler was removed during a 1993 modernization project.

Currently, the Site is developed with facilities of Taft Community School including portions of three single-story, permanent classroom buildings (also including a staff lounge and teacher work room), the library and technology lab, one portable structure and a portion of a second portable structure (housing the Taft Child Development Center and Taft Family Center, respectively), an unpaved garden/outdoor classroom area including several small storage structures, and associated landscaping, play area, and asphalt-paved play, lunch, parking, and driveway areas. Small quantities of janitorial and maintenance materials were observed within a small storage room and a shed. An electrical, pad-mounted transformer is also present on the Site.

This ESA has revealed evidence of the following Recognized Environmental Condition (REC) in connection with the Site.

- The presence of aged and historical structures on the Site, resulting in the potential presence of pesticides and herbicides from application around building perimeters and lead from flaking lead-based paint (LBP).

Although not considered RECs, the following concerns/recommendations also are identified.

- Naturally-occurring asbestos (NOA) may be present in Site soil based on the location within 10 miles of ultramafic rock.
- Based on the date of construction on the Site, Pacific Gas and Electric Company (PG&E) should be contacted to determine if polychlorinated biphenyl (PCB) could be present in the electrical transformer.

- Prior to the proposed renovation/redevelopment project, appropriate asbestos-containing materials (ACM) and LBP surveys must be conducted and identified materials abated/appropriately managed.

ASSESSMENT FINDINGS MATRIX

Site Name: Taft Community School
Site Address: 903 10th Avenue, Redwood City, San Mateo County, California
Site APN: Not Available
Site Development Type: School

Issue	Located?	Text Section (s)	Comments
Hazardous Materials and/or Hazardous Wastes	No	2.3	Only small quantities of typical janitorial and maintenance materials stored in a storage room and shed.
55-Gallon Drums	No		
Aboveground Storage Tanks	No		
Underground Storage Tanks	No		
Monitoring Wells	No		
Production Wells	No		
Visual Evidence of Hazardous Materials Release	No		
Transformers	Yes	2.3 & 6.6	PG&E pad-mounted transformer between Taft Family Center buildings.
Impact to On-Site Soil and/or Ground Water	No		
Off-Site Contamination of Potential Concern to Site	No		
Soil Vapor Intrusion Concerns	No		
Potential for Elevated Radon	Low		
Potential for Lead-Based Paint	Yes	8.2 & 8.4	Based on age of some structures, lead-based paint could be present.
Potential for Asbestos-Containing Building Materials	Yes	8.4	Based on age of some structures, asbestos-containing materials could be present.
Undocumented Fill	No		
Historical or Current Use of Site for:			
Dry Cleaner	No		
Gas Station	No		
Industrial/Manufacturing	No		
Auto Maintenance/Repair	No		
Landfill/Dump	No		
Additional Concerns	No		

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1.0 INTRODUCTION

1.1 Statement of Purpose

McCloskey Consultants, Inc. (MCI) was retained by the Redwood City School District (RCSD) to perform a Phase I Environmental Site Assessment (ESA) for a portion of the Taft Community School, located at 903 10th Avenue in Redwood City, California. Based on information provided by the RCSD, renovation/redevelopment of the eastern and northeastern portions of the school for continued school use is planned.

The purpose of this study was to identify Recognized Environmental Conditions (RECs) associated with the property in accordance with the scope and limitations of the American Society of Testing and Materials (ASTM) E 1527-13, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Exceptions to the ASTM E 1527-13 scope were limited to those deviations described in Sections 9.0 and 10.0. The scope of investigative activities and initial findings are summarized in the following sections.

This ESA has been prepared by MCI for the sole use of the RCSD (User); the ESA is valid for six months in accordance with ASTM guidelines.

1.2 Scope of Assessment

This ESA consisted of the following tasks:

- Performance of a Site reconnaissance;
- Review of historical Site uses and conditions;
- Review of environmental databases and other information;
- Interview of a representative of the Site owner/operator; and,
- Preparation of a report summarizing the findings, conclusions and recommendations.

2.0 SITE DESCRIPTION

2.1 Site Location

The Site consists of the eastern and northeastern portions of Taft Community School, located at 903 10th Street in Redwood City, California. Redwood City is located in the eastern portion of San Mateo County, along the western margin of the San Francisco Bay (Figures 1 and 2). The Site consists of an irregularly-shaped parcel of land for which an assessor's parcel number (APN) was unavailable from the RCSD and the San Mateo County Assessor's Office (SMCAO). Taft Community School, including the Site, is approximately 7.56 acres (329,314 square feet) in size.

2.2 Site Vicinity and General Characteristics

The Site vicinity, in addition to portions of the school not included as the Site, is primarily residential. Non-Site portions of Taft Community School border the Site to the south and west. The entire school, including the Site, is bordered by residences to the north, Bay Road to the south, 8th Avenue to the west, and 10th Avenue to the east.

Site topography slopes very gently towards the north with a Site elevation of approximately 14 feet above mean sea level. The vicinity topography also slopes very gently towards the north. The Site boundaries generally are undelineated, and were documented in the field by the RCSD representatives and provided development plans.

2.3 Current Uses and Physical Description of the Site

A reconnaissance of the Site was conducted by Ms. Belinda Blackie of MCI on June 16, 2017. Ms. Blackie was accompanied at the time of her reconnaissance by RCSD representatives Mr. Donald Dias and Mr. Olakunle Gbadamost. Only portions of the Site to be impacted by redevelopment/modifications were observed (Figure 2). No significant Site access limitations were encountered although only one of the small storage structures in the garden/outdoor classroom area was able to be entered.

The Site included portions of three single-story, permanent classroom building (also including a staff lounge and teacher work room), the library and technology lab, one portable structure and a portion of a second portable structure (housing the Taft Child Development Center and Taft Family Center, respectively), an unpaved garden/outdoor classroom area including several small storage structures, and associated landscaping, play area, and asphalt-paved play, lunch, parking, and driveway areas. A storage room/janitorial room was present in the technology lab building, and was observed to house shelving units with multiple 1-quart and 1-gallon containers of assorted janitorial materials.

A steel freight container within the garden/outdoor classroom area housed assorted school maintenance equipment as well as a shelf containing approximately ten 1-gallon cans of paint and a flammable materials storage cabinet which was empty with the exception of one aerosol can. A Pacific Gas and Electric Company (PG&E) pad-mounted transformer (T-432) was located adjoining the northwestern corner of the Taft Child Development Center portable.

A summary of Site features is presented in Table 1. Site photos are included in Appendix A.

Table 1. Summary of Site Features

Feature	Observed	Not Observed	Comments
Above-ground storage tanks		✓	
Agricultural/Irrigation wells		✓	
Domestic wells		✓	
Drains or sumps		✓	
Drums		✓	
Hazardous substances and/or petroleum products		✓	With the exception of a multiple 1-quart and 1-gallon containers of assorted janitorial materials and paints observed within the storage room and freight container.
Odors		✓	
Pits, ponds or lagoons		✓	
Pools of liquid		✓	
Septic system		✓	
Solid waste		✓	
Stained or corroded soil and/or Pavement		✓	
Stressed vegetation		✓	Other than stress due to lack of irrigation.
Transformers	✓		PG&E pad-mounted transformer adjoining Taft Child Development Center portable.
Underground storage tanks		✓	
Wastewater		✓	

2.4 Current Uses of the Adjoining Properties

The Site is located in a primarily residential area of Redwood City. Non-Site portions of Taft Community School border the Site to the south and west. Adjoining north of the school were residences. Bay Road adjoins the school along the southern boundary, followed by residences. 8th Avenue borders the school to the west and 10th Avenue borders to the east, both followed by residences.

3.0 USER- AND OWNER-PROVIDED INFORMATION

As part of this study, Mr. Donald Dias of the RCSD, the User of the Phase I report and property owner, was provided with an environmental questionnaire regarding the Site. The environmental questionnaire is used to obtain current and historical information relating to the Site. The questionnaire was completed by Mr. Dias on June 20, 2017, and a copy is included in Appendix B. Mr. Dias and RCSD project manager Mr. Olakunle Gbadamost also were interviewed at the time of the Site reconnaissance. Information obtained through the questionnaire and interviews is summarized below, with further detail included in the appropriate sections of this report.

Based on information provided by Mr. Dias and Mr. Gbadamost, the original portion of the school, the southern-most classroom building, was constructed on the Site in 1947 and the school has been occupied continuously by Taft Community School since construction. Additional buildings were constructed on the Site in 1948 through 1953 (three additional classroom buildings and library), 1968 (Taft Family Center) and 1999 (Taft Child Development Center). Several of the buildings were modified in the 1990s. A natural gas boiler previously was located within the HVAC enclosure (based on information from a 1962 Sanborn map; Section 7.1.1); Mr. Dias stated that the boiler was removed during a 1993 modernization project. Mr. Dias also stated that no hazardous materials are stored on the Site, but that custodial cleaning, periodic weed control, periodic broad leaf control, and fertilizer materials occasionally are used. Chemical waste (such as paint) reportedly is stored at the RCSD corporation yard prior to disposal by a licensed transporter. Following cleaning, "custodial green" cleaners, such as Suprox and hydrogen peroxide, are disposed to the sanitary sewer. He was unaware of the presence of any USTs.

AHERA asbestos surveys reportedly are completed at the Site every three years. During abatement projects for ACM and LBP, ACM debris is stored in a shipping container placed at the school, and LBP debris is placed in a 55-gallon drum. These containers are hauled from the school for disposal following completion of the projects.

Mr. Dias stated that the two kindergarten rooms, faculty lounge, faculty work room, library, technology lab and storage room on the eastern side of the permanent buildings will be demolished. The portable structure housing the Taft Child Development Center and portion of the portable structure housing the Taft Family Center also will be removed. A new two-story classroom building with school office, lunch room and library will be constructed on the Site, as well as a parking lot.

Mr. Dias was not aware of any indications of contamination on the Site, and reported no knowledge of environmental cleanup liens, activity and land use limitations, or pending,

threatened or past litigation or administrative proceedings related to hazardous substances or petroleum products at the Site. He also reported no receipt of notices from governmental entities regarding possible violation of environmental laws or liability related to the same.

4.0 PAST SITE OWNER/OCCUPANT INTERVIEWS

Contact information for past Site owner(s)/occupant(s) was unavailable, and therefore interviews were unable to be conducted.

5.0 REVIEW OF PREVIOUSLY-PREPARED ENVIRONMENTAL DOCUMENTS

No previously-prepared environmental documents for the Site were available for MCI's review.

6.0 RECORDS REVIEW

6.1 Hydrogeology

The town of Redwood City is located in the eastern portion of San Mateo County along the western margin of the San Francisco Bay. San Mateo County is located in the Coast Ranges geomorphic province, which is characterized by northwest-trending mountain ranges and valleys subparallel to the San Andreas Fault. Soils in the vicinity of the Site are categorized by the USDA Soil Conservation Service as Urban Land. Urban Land soils are partially hydric, clayey soils with a high water table or located shallow to an impervious layer, and having very slow infiltration rates (EDR 2017).

The Site is located within the Santa Clara Valley Groundwater Basin, San Mateo Plain Subbasin. The aquifer system in the subbasin consists of the Santa Clara Formation and Quaternary-age alluvial deposits. The Santa Clara Formation is comprised of Plio-Pleistocene-age materials. The Quaternary alluvium is the most significant water-bearing formation in the Subbasin.

Based on vicinity hydrogeological information obtained from the State Water Resources Control Board (SWRCB) Geotracker database, first groundwater is reportedly encountered at a depth ranging from approximately 3 to 12 feet beneath ground surface depending on the proximity to the San Francisco Bay. The groundwater flow direction is documented towards the north.

6.2 Environmental Record Database Review

Various Federal and State regulations require that government agencies maintain records of environmental permits, records of properties generating, handling or storing hazardous materials, records of properties impacted by regulated compounds, and records of properties under investigation by the government for alleged violations of hazardous material regulations. Environmental Data Resources, Inc. (EDR), a specialized research firm, was contracted to provide an electronic search of these databases, meeting the minimum search distances as outlined in ASTM E1527-13. A listing of the databases searched and the dates the database information last was updated are provided in the EDR Radius Map report included in Appendix C.

6.2.1 Site Records

The Site was listed on four of the regulatory agency databases included in the report, Haznet, RCRA Small Quantity Generator (SQG), FINDS and ECHO. The FINDS and ECHO databases are indicator databases for inclusion of the Site on the Haznet and SQG databases and contain no significant information.

The Haznet database, a record of facilities which submitted manifests for disposal of hazardous waste, documented disposal of 50.56 tons asbestos-containing waste and 1.26 tons other organic solids in 2001, 21.07 tons asbestos-containing waste in 2005, 88.45 tons asbestos-containing waste in 2004, and 0.25 ton asbestos-containing waste in 2011.

The SQG listing indicated Taft School submitted registration as a small quantity generator of hazardous waste (between 100 and 1,000 kg/month generated) in 1996. The database listing also indicated the school submitted registration as a large quantity generator of hazardous waste (greater than 1,000 kg/month generated) in 1986. No generator violations were documented. Based on information obtained from the RCSD, the school applied for the generator designations for disposal of building materials during previous renovations.

6.2.2 Vicinity Facility Records

Listings for off-Site facilities in the EDR report, including those identified as “orphan” facilities unable to be plotted due to incorrect or insufficient address information, were reviewed for their potential to impact the Site.

Edison Technology Park at 3477 through 3522 Edison Way, approximately 0.26 mile up- to cross-gradient, was included on several databases for impact to soil, groundwater, and soil vapor with a suite or contaminants. Analysis of ground water samples collected from the perimeter of the Edison Technology Park site nearest the subject property did not document

the presence of contaminants at concentrations anticipated to impact the subject property. This release is unlikely to be of significant concern.

None of the other listed off-Site facilities appeared to be of significant concern either.

6.3 Soil Vapor Intrusion Evaluation

As part of this study, a Tier 1 screening assessment of the potential for vapor encroachment conditions (VECs) to exist at the Site was conducted in general accordance with ASTM E-2600-10. The Site, adjoining properties, and properties located up-gradient from the Site, with respect to anticipated groundwater flow, were evaluated for the potential to create a VEC at the Site. Using information from the EDR electronic database search report previously referenced in Section 7.2, releases (if reported) were evaluated based on the type of chemical and the distance to the Site. If a petroleum hydrocarbon plume was reported within 1/10 mile of the Site, or a volatile organic hydrocarbon (non-petroleum hydrocarbon) plume was reported within 1/3 mile of the Site, in a hydraulically up-gradient direction, it was presumed a VEC could exist at the Site and additional screening may be warranted. Criteria regarding the distance and direction of a potential release facility from the Site may be modified based on professional judgment. Recommendations for additional screening are based on criteria including Site use/proposed Site use, type of Site structure, physical setting, depth to groundwater, soil type, and presence of natural and/or man-made conduits.

Based on evaluation of the above criteria, the potential for a VEC to exist at the Site appears very low. No significant petroleum hydrocarbon releases were reported within 1/10 mile or volatile organic hydrocarbon releases were reported within 1/3 mile in a hydraulically up-gradient direction from the Site. Additional screening is not recommended at this time.

6.4 Local Regulatory Agency Record Sources

On June 9, 2017, MCI requested available hazardous materials files and documents related to the presence or absence of environmental conditions and activities on the Site available from the San Mateo County Environmental Health Department (SMCEHD). According to the SMCEHD representative, there are no files for the subject property.

6.5 On-Line State Regulatory Agency Record Sources

In addition to requesting files available at the local regulatory agencies, the on-line SWRCB Geotracker database and the California Department of Toxic Substances Control (DTSC) Envirostor database were reviewed on June 18, 2017. The Site was not included on either database.

6.6 Potable Water Source, Power Source, and Method of Sewage Disposal

Municipal potable water for the Site is provided by the City of Redwood City, utilizing water provided by the SFPUC, supplemented with water from the Alameda and Peninsula Watersheds. Sewage disposal services also are provided to the Site by the City of Redwood City.

Electricity and natural gas are provided to the property by PG&E. Overhead power lines were observed along 8th Avenue, 10th Avenue and Bay Road, bordering the boundaries of John Gill School; only those along the eastern side of 10th Avenue were proximate to the Site. One pad-mounted transformer (T-432) was observed at the Site, adjoining the northwestern corner of the Taft Child Development Center portable.

6.7 State and Federal Radon Testing Data

Federal and State radon screening test data for the Site zip code of 94063 were included in the EDR radius map report previously referenced in Section 6.2 and included in Appendix C. Based on information provided in the regulatory agency database report, one Federal and 19 State radon screening tests have been performed within the Site zip code. The Federal radon screening test of the 1st floor living area reported radon activity at 0.300 pCi/l. No Federal radon screening tests of the basement level were reported. Two of the 19 State tests (10%) reported radon exceeding the 4 pCi/l action level. San Mateo County is reported in Federal EPA Radon Zone 2, with average indoor radon levels between 2 and 4 pCi/l. Based on the available test data and radon zone designation, radon accumulation does not appear to be a significant environmental concern.

6.8 Public, State, and Federal Well Data

Federal, State and public well location data was obtained from EDR in the report included in Appendix C. Review of the Federal, State, and public well database information did not indicate the presence of wells on the Site. The SMCEHD had no documentation of groundwater monitoring wells on the Site.

6.9 Oil and Natural Gas Wells

Visual observation of the Site and vicinity was conducted, as was review of Department of Oil, Gas and Geothermal Resources (DOGGR) maps available on the DOGGR website. No gas wells or dry holes were reported on the Site. No gas wells or dry holes were observed or reported on the Site.

6.10 Naturally-Occurring Asbestos

The California Department of Conservation General Location Guide for Ultramafic Rocks in California was reviewed to evaluate the presence of potential naturally-occurring asbestos (NOA) in the immediate vicinity of the Site. The nearest outcrop of ultramafic rock that could contain NOA is documented approximately 4 miles to the west-southwest (Department of Conservation, 2000).

7.0 HISTORICAL REVIEW

7.1 Topographic Maps and Aerial Photographs

A review of historical information was performed to identify past uses of the Site and adjacent properties that may pose an environmental concern. The following historical sources were reviewed:

- Aerial photographs from the years 1943, 1948, 1950, 1958, 1963, 1968, 1974, 1982, 1991, 1998, 2005, 2009, 2010 and 2012 obtained from EDR, Inc. on June 5, 2017;
- USGS 7.5- and 15-minute topographic maps from the years 1897, 1899, 1902, 1943, 1948, 1953, 1961, 1968, 1973, 1982, 1991 and 1997 reviewed on-line through the USGS Historical Topographic Map Explorer website on June 18, 2017; and,
- Sanborn Fire Insurance Company maps from the years 1962 and 1968, obtained from EDR, Inc. on June 5, 2017.

Copies of the aerial photographs and Sanborn maps are included in Appendix D.

The following observations were made from the available sources.

7.1.1 Site Observations

1897 - 1902: No development was depicted on the Site on the topographic maps from this time period.

1943: The Site appeared to be undeveloped grassland on the 1943 photograph. One very small structure or other item was visible near the middle of the western Site boundary. No development was depicted on the Site on the topographic map.

1948: The original, southern-most classroom building was visible on the 1948 photograph, with the remainder of the Site appearing undeveloped but graded. The Site was depicted as a school on the topographic map.

1950: The 1950 aerial photograph showed the two southern-most classroom buildings, with a small parking lot adjoining east. The remainder of the Site appeared undeveloped.

1953: Three of the four existing classroom buildings were depicted, along with one smaller structure. The School was labeled Taft School.

1958: The four classroom buildings and library were all visible on the 1958 photograph, with the remainder of the Site appearing paved.

1961: The 1961 topographic map depicted all four of the classroom buildings and the library.

1962: The 1962 Sanborn map depicted the four permanent classroom buildings and library on the Site, which was labeled as William Howard Taft School, constructed in 1947. A "htr rm" (heater room; presumed boiler location) was depicted adjoining west of the library.

1963: There were no significant changes from the 1958 aerial photograph.

1968: There were no significant changes from the 1962 Sanborn map, 1963 photograph, and the 1961 topographic map, with the exception of the addition of a small structure in the location of the existing Taft Child Development Center portable. The structure appeared labeled "club room."

1973: There were no significant changes from the 1968 topographic map.

1974: The 1974 aerial photograph showed the permanent classroom building plus the addition of the existing Taft Family Center structure. What appeared possibly to be an array of lunch tables or other items was visible adjoining east of the Taft Family Center. The Site area East of the table array was undeveloped.

1982 - 1998: There were no significant changes from the 1974 aerial photograph. The Site was depicted within a shaded area, indicating urban development, on the 1982 topographic map and was depicted as a school on the 1991 and 1997 maps.

2005 - 2012: The Site appeared generally similar to the current development, with the addition of the Taft Child Development Center structure by 2005.

7.1.2 Site Vicinity/Adjoining Property Observations

1897 - 1902: The Site vicinity was undeveloped as depicted on topographic maps from this time period.

1943: The aerial photograph showed the vicinity to be a mix of residential and undeveloped properties, with a few parcels to the south and southwest appearing to be grazing land. Vicinity surface streets were depicted on the topographic map, with some small structures present along the streets. Southern Pacific Railroad tracks were present a short distance south of the Site and marshlands of the San Francisco Bay were present a short distance north.

1948: Significantly increased residential development had been constructed throughout the vicinity, with a few parcels remaining undeveloped, including several in close proximity to the Site. Additional development was depicted in the immediate vicinity of the Site on the 1948 topographic map.

1950: There were no significant changes from the 1948 aerial photograph.

1953: The vicinity was depicted within a shaded area, indicating urban development, on the topographic map.

1958: The immediate vicinity of the Site was generally similar to that described for previous photographs. Commercial and possibly light-industrial development was visible a short distance west/southwest along 5th Avenue.

1961: The vicinity was depicted within a shaded area, indicating urban development, on the topographic map.

1963: There were no significant changes from the 1958 photograph.

1968: There were no significant changes from the 1963 photograph. The vicinity was depicted within a shaded area, indicating urban development, on the topographic map.

1973: The vicinity was depicted within a shaded area, indicating urban development, on the topographic map.

1974: There were no significant changes from the 1974 photograph, with the exception of increased light-industrial development to the southwest.

1982 - 1998: There were no significant changes from the previous aerial photograph. The vicinity was depicted within a shaded area, indicating urban development, on the topographic maps.

2005 - 2012: There were no significant changes from the previous aerial photographs.

7.2 Building Department Records

Building department records from the City of Redwood City were reviewed on-line on June 22, 2017. No permits were available for the Site address.

7.3 Client-Provided Documentation

Based on Site history information provided by the RCSD, the southern-most Taft School classroom building was constructed in 1947, followed by the three other classroom buildings and library between 1948 and 1953. The Taft Family Center portable structure was constructed in 1968 and the Taft Child Development Center building was added in 1999.

8.0 FINDINGS, OPINIONS AND RECOMMENDATIONS

This ESA of the Taft Community School Site located at 903 10th Avenue in Redwood City, California has been performed in conformance with the scope and limitations of ASTM Practice E 1527-13. Any exceptions to, or deletions from, this practice are described in Sections 9.0 and 10.0 of this report.

This ESA has revealed evidence of the following REC in connection with the Site: the presence of aged and historical structures on the Site, resulting in the potential presence of pesticides and/or herbicides from application around building perimeters and lead from flaking LBP.

Results of the research performed for this study are summarized in the following sections.

8.1 Site Use

8.1.1 Current

The Site currently is occupied by facilities of Taft Community School, including portions of three single-story, permanent classroom buildings (also including a staff lounge and teacher work room), the library and technology lab, one portable structure and a portion of a second portable structure (housing the Taft Child Development Center and Taft Family Center, respectively), an unpaved garden/outdoor classroom area including several small storage structures, and associated landscaping, play area, and asphalt-paved play, lunch, parking, and driveway areas.

8.1.2 Historical

The initial Taft School building, the southern-most classroom building, was constructed on the Site in 1947, followed by the other classroom buildings and library between 1948 and 1953. The northern area of the Site was undeveloped prior to construction of a small building on the northeastern portion in the mid-1960s and the existing Taft Family Center structure in 1968. The

buildings were modified throughout the 1990s, and the Taft Child Development Center structure was completed in 1999. The Site appears to have been occupied by Taft School from initial property development to the present.

8.2 Aged Structures

Several of the structures on the Site have been present since the 1940s to 1960s. Additionally, one small structure was documented in the vicinity of the existing Taft Child Development Center during the 1960s. Based on the dates of construction, the paint on the aged/historical structures may contain lead. Flaking LBP may have impacted the limited areas of exposed soil along the eastern wall of the office and kindergarten buildings, and in the location of the historical structure with lead. Additionally, application of pesticides and/or herbicides may have occurred around the building perimeters. This is considered a REC for the Site. Evaluation of exposed near-surface soil around the structure perimeters for the presence of pesticides, arsenic, and lead is recommended.

8.3 NOA

Based on the presence of ultramafic rock outcrops identified approximately 4 miles from the Site, NOA may be present in on-Site soil that exceeds State guidelines for school sites. Sampling for asbestos in Site soils is therefore recommended.

8.4 Asbestos-Containing Building Materials and Lead-Based Paint

Based on the dates of construction for the permanent classroom buildings, library, and Taft Family Center structure, building materials and coatings may include ACM and LBP. The RCSD reportedly conducts AHERA asbestos surveys of the buildings every 3 years. Additionally, disposal of significant quantities of asbestos-containing building materials were documented as having been disposed previously. Prior to the proposed renovation/redevelopment project however, appropriate ACM and LBP surveys must be conducted and identified materials abated/appropriately managed.

8.5 Transformers

Due to the age of the Site development, the pad-mounted transformer adjoining the northwestern corner of the Taft Child Development Center could contain PCBs. No indication of releases from the transformer was observed, however we recommend that PG&E be contacted to determine the PCB status of the unit.

8.6 Undocumented UST

Based on the date of construction for the building housing the former boiler, as well as the size and location of the former boiler room, it appears unlikely that a historical fuel oil-fired boiler would have been present. Consequently, it appears unlikely that an undocumented fuel oil UST would remain present in the vicinity of the former boiler.

8.7 Concerns with Vicinity Properties

Information contained in the database search report did not reveal the presence of vicinity properties appearing likely to have significantly impacted the Site through documented releases to soil and/or groundwater.

8.8 Soil Vapor Intrusion

The potential for a VEC to exist at the Site appears very low. No significant petroleum hydrocarbon releases were reported within 1/10 mile or volatile organic hydrocarbon releases were reported within 1/3 mile in a hydraulically up-gradient direction from the Site. Additional screening is not recommended at this time.

9.0 DEVIATIONS

The following deviations to ASTM Practice E1527-13 occurred due to data gaps, as summarized below.

Data gaps result from insufficient information availability for the Site, which may hinder the ability of the study to adequately distinguish recognized environmental concerns. The following data gaps were encountered.

- Historical sources available included gaps of greater than 5 years; additional sources were not reasonably ascertainable. Based on the development type and consistency however, this data gap is not considered significant.
- Some of the small storage structures in the garden area of the Site were unable to be accessed at the time of the reconnaissance. RCSD representatives indicated they were used for storage of non-hazardous materials therefore this data gap is not considered significant.

10.0 ADDITIONS

The following additions to ASTM Practice E1527-13 were made:

- Radon data for the Site vicinity was reviewed;
- NOA location information for the Site vicinity was reviewed;
- State and Federal well data for the Site and vicinity were reviewed; and,
- Department of Oil and Gas maps for the Site and vicinity were reviewed.

11.0 REFERENCES

EDR, June 5, 2017. *The EDR Radius Map Report with GeoCheck.*

EDR, June 5, 2017. *The EDR Aerial Photo Decade Package.*

Envirostor website. http://www.envirostor.dtsc.ca.gov/public. Accessed June 18, 2017.

Geotracker website. http://www.geotracker.swrcb.ca.gov. Accessed June 18, 2017.

Google Earth. 2016 Satellite and Street View Photographs.

Redwood City Building Department. June 9, 2017. Online Public Records Review; http://permits.redwoodcity.org/Search/permit.aspx. 1017 Middlefield Road, Redwood City, CA 94063. 650-780-7350.

San Mateo County Environmental Health Department. June 9, 2017. Online Public Records Request; www.smhealth.org/environ. 222 W. 39th Avenue, San Mateo, CA 94403. 650-573-2222.

San Mateo County Assessor's Office. June 18, 2017. 555 County Center, First Floor, Redwood City, CA 94063. 650-363-4500. http://www.smcare.org/apps/parcelmaps/default.aspx

State of California Division of Oil, Gas, and Geothermal Resources website. http://maps.conservation.ca.gov/doms/doms-app.html. Accessed June 18, 2017.

USGS Historical Topographic Map Explorer website. http://historicalmaps.arcgis.com/usgs/. Accessed June 18, 2017.

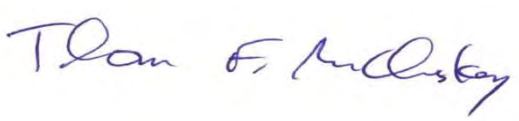
12.0 LIMITATIONS

This ESA is intended to serve as an appropriate and reasonable inquiry regarding releases or threatened releases of hazardous substances and some naturally-occurring hazards on, at, or to the property that could be the subject of a response action for which a CERCLA liability protection would be needed. No warranty, expressed or implied, has been made, except that the services have been performed in general accordance with ASTM E 1527-13, Standard Practice for Environmental Site Assessment and updates.

Some of the information provided in this report is based upon personal interviews, research of available publicly accessible documents, records, aerial photographs, and maps held by government and private parties as well as reasonably observable Site conditions. Publicly accessible information cannot be relied upon to definitively confirm or deny the existence of recognized environmental conditions at the Site and therefore MCI is not responsible for the accuracy of the data provided by others nor the personal statements and recollections of those persons contacted. There is also a possibility that even with the proper review of this information that there may exist conditions on the property that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. Changes in applicable standards can occur as the result of legislation or broadening knowledge that may invalidate, wholly or in part, the findings of this report.

13.0 QUALIFICATIONS AND SIGNATURES

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professionals as defined in Section 312.20 of 40 CFR 312. We have the specific qualifications, based on education, training, and experience, to assess a Site of the nature, history, and setting of the subject Site. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.



Belinda P. Blackie, P.E.
Senior Project Engineer

Thomas F. McCloskey, P.G., C.E.G., C.HG.
Principal Geologist

Figures

Vicinity Map

Taft Community School
903 10th Avenue
Redwood City, California

FIGURE 1

McCloskey Consultants

Site Plan

Taft Community School
903 10th Avenue
Redwood City, California

FIGURE 2

McCloskey Consultants

Appendix A

Site Photographs

Taft Community School, Redwood City, CA

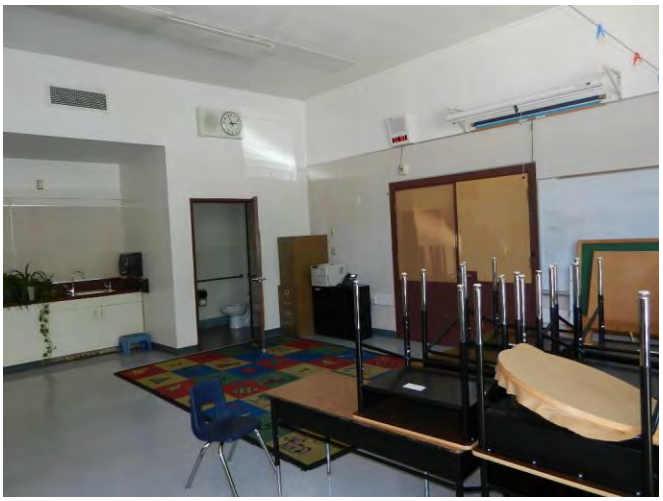
Parking Lot Adjoining 10th Ave.

View of Site Facing North from 10th Ave. Driveway

View of Site Facing West from 10th Ave. Driveway

View of Site Facing Northwest from Kindergarten Building

Original Classroom Building



Typical Classroom Interior

Taft Community School, Redwood City, CA

Library Interior

Taft Child Development Center Portable

Taft Family Center Portable

Janitorial Materials in Storage Room

Maintenance Materials in Storage Shed

Garden/Outdoor Classroom Area

Appendix B

Completed Environmental Questionnaire & RCSD-Provided Documentation

Phase I ESA Questionnaire - Owner/Occupant
Taft School, Redwood City, CA

In an attempt to help identify the presence of possible recognized environmental conditions associated with the property, please answer the following questions as specifically as reasonably feasible and in good faith to the extent of your knowledge. Also, please attach any relevant documents or reports, including previous environmental reports, geotechnical reports, risk assessments, hazardous materials management plans, chemical inventories, environmental/hazardous waste generator permits, underground storage tank documents, records of activity and use limitations, etc.

All current and historic street addresses: 903 TENTH AVE.

All assessor's parcel numbers (APNs): _____

How associated with Site/years associated: DISTRICT EMPLOYEE 31

Size of parcel(s)/property: 7.56 ACRES

Do you have any commonly known, reasonable ascertainable, or specialized knowledge or experience related to the Site or nearby properties? ☒Yes (describe below) ☐No

FACILITIES DEPARTMENT EMPLOYEE for 31 YEARS

Please provide any information you have regarding *current* Site owners/tenants and uses of the Site (describe processes and hazardous materials usage):

Owner/Tenant Name	Dates of Ownership/ Occupancy	Site Use
REDWOOD CITY SCHOOL DISTRICT	1947	EDUCATION

ALL HAZARDOUS MATERIALS IDENTIFIED IN ATHERA EVERY 3 YEARS
ALL DEMOLITION/REHAB TESTED PRIOR TO AND MONITORED DURING ABATEMENT BY HYGENIST.

Please provide any information you have regarding *past* owners/tenants and uses of the Site (describe processes and hazardous materials usage), including owner and tenant names, dates of ownership/occupancy, Site uses, and contact information.

Owner/Tenant Name	Dates of Ownership/ Occupancy	Site Use	Contact Information
REDWOOD CITY SCHOOL DISTRICT	1947 to PRESENT	EDUCATION	DON DIAS 650-670-2943

ALL MONITORING AND/OR REMOVAL OF ANY HAZARDOUS MATERIALS DONE PER ATHERA.

Were or are any of these structures on-site:

Aboveground storage tanks	☐Yes	☒No	☐Don't Know
Agricultural wells	☐Yes	☒No	☐Don't Know
Boilers	☒Yes	☐No	☐Don't Know
Burning areas	☐Yes	☒No	☐Don't Know
Chemical use areas	☐Yes	☒No	☐Don't Know
Domestic/agricultural supply wells	☐Yes	☒No	☐Don't Know
Drainage/disposal ponds	☐Yes	☒No	☐Don't Know
Dry wells	☐Yes	☒No	☐Don't Know
Emergency generators	☐Yes	☒No	☐Don't Know
Equipment maintenance or auto servicing areas	☐Yes	☒No	☐Don't Know
Garbage disposal/burning areas	☐Yes	☒No	☐Don't Know
Monitoring wells	☐Yes	☒No	☐Don't Know
Petroleum pipelines	☐Yes	☒No	☐Don't Know
Petroleum wells	☐Yes	☒No	☐Don't Know
Ponds, streams, or drainage ditches	☐Yes	☒No	☐Don't Know
Railroad lines	☐Yes	☒No	☐Don't Know
Stockpiles of soil or debris	☐Yes	☒No	☐Don't Know
Septic systems	☐Yes	☒No	☐Don't Know
Sumps	☐Yes	☒No	☐Don't Know
Transformers	☒Yes	☐No	☐Don't Know
Underground storage tanks	☐Yes	☒No	☐Don't Know

If yes to any of the previous, please briefly describe or attach documentation:
LOW PRESSURE HOT WATER BOILERS REMOVED IN 1993 A590/8 DSA-103
PG&E OWNED TRANSFORMER

Number, type and square footage of *current* on-site structure(s): 18 STRUCTURES, WOOD FRAME & MASONRY 55,565 SQUARE FEET TOTAL

Construction date/age of *current* on-site structure(s): SEE ATTACHED SHEET WITH DSA A #'S

Number, type and square footage of *previous* on-site structure(s): INTERIM HOUSING, PORTABLES, LOCATED BY FIELD AREA during 1993 MODERNIZATION AND WERE REMOVED WHEN CONSTRUCTION WAS COMPLETED

McCloskey Consultants

Construction date/age of *previous* on-site structure(s): NEW IN 1993 REMOVED IN 1995

Historical use of property (if known): UNKNOWN - EDUCATION SINCE 1947

Was the site previously used for agricultural purposes? ☐Yes ☐No ☒Don't Know

Are you aware of the historical use/application of agricultural chemicals on the Site? ☐Yes ☐No ☒Don't Know

Are agricultural chemicals (pesticides/herbicides) stored, applied, or mixed/formulated on the Site? ☒Yes ☐No ☐Don't Know
Applies for Broadleaf Control and Weed Control under Dept of Ag.

Is/was heating oil or fuel oil utilized at the Site for heating purposes? ☐Yes ☒No ☐Don't Know

Describe how hazardous materials, if any, are stored

☒None present

Describe any secondary containment system for hazardous materials.
When site has Abatement of Asbestos, A special container is brought in
When site has Lead Containment, A 55 Gallon Metal Drum is used.

☐None present

Do you have a current inventory of all chemicals used on-site? ☒Yes ☐No ☐Don't Know
(if yes, please provide a copy) SDS Binder on site ☐None present

Do you treat or dispose of chemical waste on-site? ☐Yes ☒No ☐Don't Know
If yes, please describe.

Do you have a permit to treat chemical waste on-site? ☐Yes ☒No ☐Don't Know
If yes, please describe.

How is chemical waste disposed/company name responsible for disposal? Any chemical waste such as paint, etc is at our corporation yard and picked up on an as needed basis by a licensed transporter

Is any chemical waste disposed to the sanitary sewer? ☒Yes ☐No ☐Don't Know
If yes, please describe.
Custodial Green such as Super or Hydrogen Peroxide after cleaning has been completed

Are there any air emissions associated with the Site? ☐Yes ☒No ☐Don't Know
If yes, please describe.

Has your business received a violation notice regarding hazardous materials usage, storage or disposal practices? ☐Yes ☒No ☐Don't Know
If yes, please describe.

Based on your knowledge and/or experience with the Site, are there any obvious indications that contamination of the property is or may be present? ☐ Yes (if yes, please provide information below)
☒ No

Please provide any information you have regarding spills or other chemical releases that have occurred on the site and any cleanup activities that have been required and/or performed.

None that I am aware of.

Do you have knowledge of any environmental cleanup liens or activity and land use limitations (including engineering or institutional controls or land use restrictions) filed or recorded for the Site under federal, tribal, state, or local law? ☒ Yes (if yes, please provide information below)
☐ No

Asbestos Abatement and Lead Containment.

Do you have any specialized knowledge of, or experience with, similar business, development, or facility types to this Site or nearby properties that would be material to the environmental condition, presence of chemicals, and/or uses of the Site and nearby properties? ☐Yes (if yes, please provide information below) ☒No

Do you have any knowledge of pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from this Site?

☐ Yes (if yes, please provide information below) ☒ No

Have you received notice from any governmental entity regarding possible violation of environmental laws or liability relating to hazardous substances or petroleum products associated with the Site?

☐ Yes (if yes, please provide information below) ☒ No

Has an asbestos survey of the on-site structures been performed? ☒Yes ☐No ☐Don't Know

If yes, please attach any available reports. EVERY 3 YEARS - AHERA

Has a lead-based paint survey of the on-site structures been performed? ☒Yes ☐No ☐Don't Know

If yes, please attach any available reports.

ON AN AS NEEDED BASIS

Has an environmental soil and ground water sampling been conducted at this Site? ☐Yes ☐No ☒Don't Know

If yes, please attach available reports.

Completed by: DONALD DIAS Donald Dias 6-20-17

Name (Print) Signature Date

REDWOOD CITY SCHOOL DISTRICT 650-670-2943

Entity Representing Contact Telephone #/Email

ddias@rcsdk8.net

McCloskey Consultants

Phase I ESA Questionnaire – "User"

Taft School, Redwood City, CA

For the "User" of this Phase I environmental site assessment to qualify for Landowner Liability Protections offered by the Small Business Liability Relief and Brownsfields Revitalization Act of 2001, the "User" must provide the following information to the Environmental Professional prior to completion of the Phase I.

In an attempt to help identify the presence of possible recognized environmental conditions associated with the property, please answer the following questions as specifically as reasonably feasible and in good faith to the extent of your knowledge. Also, please attach any relevant documents or reports, including previous environmental reports, geotechnical reports, risk assessments, hazardous materials management plans, chemical inventories, environmental/hazardous waste generator permits, underground storage tank documents, records of activity and use limitations, etc.

What is the purpose of this Phase I? TO UNDERSTAND THE USAGE of THE SITE, both PAST AND PRESENT

Are there any proposed changes in Site use following the property transaction?

☐Yes (describe below) ☐No N/A

If applicable, does the Site purchase price reflect fair market value for the property?

☐Yes (describe below) ☐No ☒Not Applicable

Do you have any commonly known, reasonable ascertainable or specialized knowledge or experience related to the Site or nearby properties? ☒Yes (describe below) ☐No

31 YEARS AS "DISTRICT EMPLOYEE

Based on your knowledge and/or experience with the Site, are there any obvious indications that contamination of the property is or may be present? ☐Yes (describe below) ☒No

Please provide any information you have regarding current and/or past owners/tenants and uses of the Site. Please also include any available contact information for past owners/tenants.

ALWAYS Education

Please provide any information you have regarding chemicals or other hazardous materials currently and/or historically present on the Site.

CUSTODIAL CLEANING
PERIODIC WEED CONTROL
PERIODIC BROADLEAF CONTROL
FERTILIZER ON SPORTS TURF
ASBESTOS AND LEAD

What is the current zoning of the Site? Do you have knowledge of what the site historically was zoned, if different from the current zoning?

I don't know what the SITE IS ZONED AS RESIDENTIAL

Please provide any information you have regarding past spills or other chemical releases that have occurred on the Site and any cleanup activities that have been required and/or performed.

None

Do you have knowledge of any environmental cleanup liens or activity and land use limitations (including engineering or institutional controls or land use restrictions) filed or recorded for the Site under federal, tribal, state, or local law? ☐ Yes (if yes, please provide information below) ☒ No

As the User of this Environmental Site Assessment, do you have any specialized knowledge of, or experience with, similar business, development, or facility types to this Site or nearby properties that would be material to the environmental condition, presence of chemicals, and/or uses of the Site and nearby properties?
☐ Yes (if yes, please provide information below) ☒ No

Does the purchase price being paid for this Site reasonably reflect the fair market value of the property?
☐ Yes ☐ No (if no, please indicate if the difference in the purchase price and the fair market value is due to the presence of releases or threatened releases of hazardous substances.)

N/A

Do you have any knowledge of pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from this Site?
☐ Yes (if yes, please provide information below) ☒ No

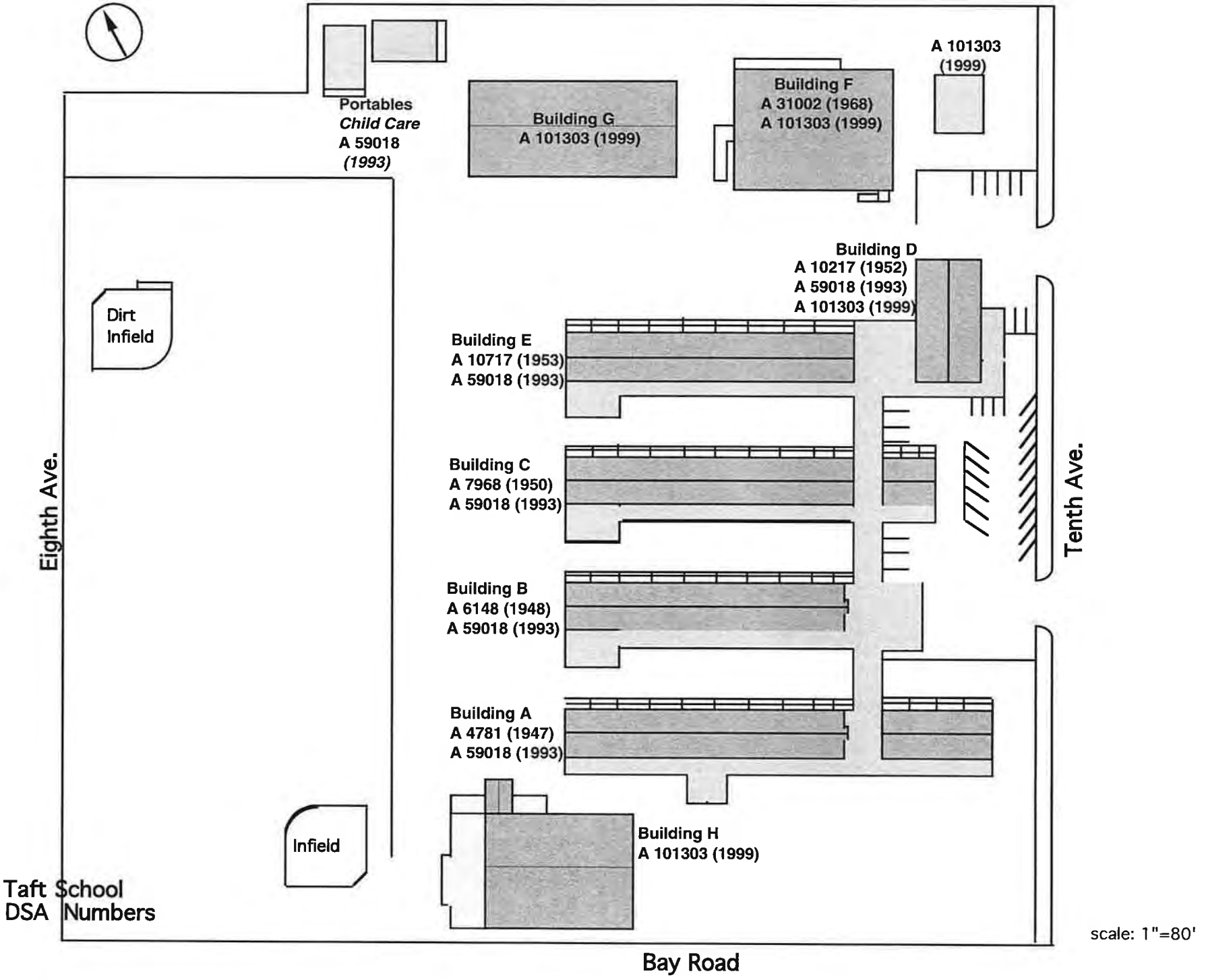
Have you received notice from any governmental entity regarding possible violation of environmental laws or liability relating to hazardous substances or petroleum products associated with the Site?
☐ Yes (if yes, please provide information below) ☒ No

Completed by: Donald Dias 6-20-17

Name (Print) Signature Date

Redwood City School District 650-670-2943

Entity Representing Contact Telephone #/Email ddias@rcsdk8.net


Portables
Child Care
A 59018
(1993)
Building G
A 101303 (1999)
Building F
A 31002 (1968)
A 101303 (1999)
A 101303
(1999)
Building D
A 10217 (1952)
A 59018 (1993)
A 101303 (1999)
Dirt
Infield
Building E
A 10717 (1953)
A 59018 (1993)
Building C
A 7968 (1950)
A 59018 (1993)
Building B
A 6148 (1948)
A 59018 (1993)
Building A
A 4781 (1947)
A 59018 (1993)
Infield
Building H
A 101303 (1999)
Eighth Ave.
Tenth Ave.
Taft School
DSA Numbers
Bay Road
scale: 1"=80'

PREPARED BY
Alliant Insurance Services, Inc.
1301 Dove Street
Suite 200
Newport Beach, CA 92660 (949) 756-0271

SIPP PROPERTY SCHEDULE
REDWOOD CITY SCHOOL DISTRICT (SMCSIG)

Includes B & M

Real Property Trend Factor: 0.90%
Personal Property Trend Factor: 0.36%

November 01, 2016

Loc #	2nd Id	Address, City, Zip	Occupancy	Construction	Auto Spklr	Year Built	Year Apprs		Zone	Real Prop	Pers Prop	BI / Rents	Year	Real Property	Personal Property	BI / Rents	Totals
114	B	MODULAR CLASSROOM 120	980 SQ. FT.	Class: D	No	1985	2014	EQ:	A1	No	No	No	*2015*	*$180,000*	*$26,900*	*$0*	*$206,900*
		(W/RESTROOMS)	ORION ALTERNATIVE	ALL COMB (WOOD FRAME)				Flood:	X	Yes	Yes	Yes	**2016**	**$180,000**	**$26,900**	**$0**	**$206,900**
		815 ALLERTON STREET															
		REDWOOD CITY CA 94061	Pct. Sprnkl: 0%														
		Stories: 1															
Lat: 37.490248		Lng. -122.233467															
114	C	MODULAR CLASSROOM 130	980 SQ. FT.	Class: D	No	1985	2014	EQ:	A1	No	No	No	*2015*	*$125,000*	*$26,900*	*$0*	*$151,900*
		815 ALLERTON STREET	ORION ALTERNATIVE	ALL COMB (WOOD FRAME)				Flood:	X	Yes	Yes	Yes	**2016**	**$125,000**	**$26,900**	**$0**	**$151,900**
		REDWOOD CITY CA 94061															
		Stories: 1	Pct. Sprnkl: 0%														
Lat: 37.490248		Lng. -122.233467															
114	D	MODULAR CLASSROOM 131	980 SQ. FT.	Class: D	No	1985	2014	EQ:	A1	No	No	No	*2015*	*$125,000*	*$26,900*	*$0*	*$151,900*
		815 ALLERTON STREET	ORION ALTERNATIVE	ALL COMB (WOOD FRAME)				Flood:	X	Yes	Yes	Yes	**2016**	**$125,000**	**$26,900**	**$0**	**$151,900**
		REDWOOD CITY CA 94061															
		Stories: 1	Pct. Sprnkl: 0%														
Lat: 37.490248		Lng. -122.233467															
114	E	CARGO CONTAINER #1	120 SQ. FT.	Class: S	No	1980	2014	EQ:	A1	No	No	No	*2015*	*$2,000*	*$2,500*	*$0*	*$4,500*
		815 ALLERTON STREET	ORION ALTERNATIVE	ALL STEEL				Flood:	X	Yes	Yes	Yes	**2016**	**$2,000**	**$2,500**	**$0**	**$4,500**
		REDWOOD CITY CA 94061															
		Stories: 1	Pct. Sprnkl: 0%														
Lat: 37.490248		Lng. -122.233467															
115		STAFF ROOM	813 SQ. FT.	Class: D	No	1951	2014	EQ:	A1	No	No	No	*2015*	*$198,000*	*$27,600*	*$0*	*$225,600*
		903 TENTH AVENUE	TAFT ELEMENTARY	ALL COMB (WOOD FRAME)				Flood:	X	Yes	Yes	Yes	**2016**	**$198,000**	**$27,600**	**$0**	**$225,600**
		REDWOOD CITY CA 94063															
		Stories: 1	Pct. Sprnkl: 0%														
Lat: 37.479939		Lng. -122.193941															
115	A	CLASSROOMS 101-105	5,696 SQ. FT.	Class: D	No	1951	2014	EQ:	A1	No	No	No	*2015*	*$1,378,000*	*$193,700*	*$0*	*$1,571,700*
		BUILDING	TAFT ELEMENTARY	ALL COMB (WOOD FRAME)				Flood:	X	Yes	Yes	Yes	**2016**	**$1,378,000**	**$193,700**	**$0**	**$1,571,700**
		903 TENTH AVENUE															
		REDWOOD CITY CA 94063	Pct. Sprnkl: 0%														
		Stories: 1															
Lat: 37.479939		Lng. -122.193941															

PREPARED BY
Alliant Insurance Services, Inc.
1301 Dove Street
Suite 200
Newport Beach, CA 92660 (949) 756-0271

SIPP PROPERTY SCHEDULE
REDWOOD CITY SCHOOL DISTRICT (SMCSIG)

Includes B & M

Real Property Trend Factor: 0.90%
Personal Property Trend Factor: 0.36%

November 01, 2016

Loc #	2nd Id	Address, City, Zip	Occupancy	Construction	Auto Sprklr	Year Built	Year Apprs		Zone	Real Prop	Pers Prop	BI / Rents	Year	Real Property	Personal Property	BI / Rents	Totals
115	B	CLASSROOMS 106-107	2,080 SQ. FT.	Class: D	No	1951	2014	EQ:	A1	No	No	No	*2015*	*$503,000*	*$70,700*	*$0*	*$573,700*
		BUILDING	TAFT ELEMENTARY	ALL COMB (WOOD FRAME)				Flood:	X	Yes	Yes	Yes	**2016**	**$503,000**	**$70,700**	**$0**	**$573,700**
		903 TENTH AVENUE															
		REDWOOD CITY CA 94063	Pct. Sprnkl: 0%														
		Stories: 1															
Lat: 37.479939		Lng. -122.193941															
115	C	ADMINISTRATION/CLASSROO	5,696 SQ. FT.	Class: D	No	1951	2014	EQ:	A1	No	No	No	*2015*	*$1,378,000*	*$193,700*	*$0*	*$1,571,700*
		MS 201-204 BUILDING	TAFT ELEMENTARY	ALL COMB (WOOD FRAME)				Flood:	X	Yes	Yes	Yes	**2016**	**$1,378,000**	**$193,700**	**$0**	**$1,571,700**
		903 TENTH AVENUE															
		REDWOOD CITY CA 94063	Pct. Sprnkl: 0%														
		Stories: 1															
Lat: 37.479939		Lng. -122.193941															
115	D	CLASSROOMS 301-305	5,696 SQ. FT.	Class: D	No	1951	2014	EQ:	A1	No	No	No	*2015*	*$1,378,000*	*$193,700*	*$0*	*$1,571,700*
		BUILDING	TAFT ELEMENTARY	ALL COMB (WOOD FRAME)				Flood:	X	Yes	Yes	Yes	**2016**	**$1,378,000**	**$193,700**	**$0**	**$1,571,700**
		903 TENTH AVENUE															
		REDWOOD CITY CA 94063	Pct. Sprnkl: 0%														
		Stories: 1															
Lat: 37.479939		Lng. -122.193941															
115	E	CLASSROOM 306 BUILDING	1,045 SQ. FT.	Class: D	No	1951	2014	EQ:	A1	No	No	No	*2015*	*$253,000*	*$35,500*	*$0*	*$288,500*
		903 TENTH AVENUE	TAFT ELEMENTARY	ALL COMB (WOOD FRAME)				Flood:	X	Yes	Yes	Yes	**2016**	**$253,000**	**$35,500**	**$0**	**$288,500**
		REDWOOD CITY CA 94063															
		Stories: 1	Pct. Sprnkl: 0%														
Lat: 37.479939		Lng. -122.193941															
115	F	CLASSROOMS 401-406	5,665 SQ. FT.	Class: D	No	1951	2014	EQ:	A1	No	No	No	*2015*	*$1,378,000*	*$192,600*	*$0*	*$1,570,600*
		BUILDING	TAFT ELEMENTARY	ALL COMB (WOOD FRAME)				Flood:	X	Yes	Yes	Yes	**2016**	**$1,378,000**	**$192,600**	**$0**	**$1,570,600**
		903 TENTH AVENUE															
		REDWOOD CITY CA 94063	Pct. Sprnkl: 0%														
		Stories: 1															
Lat: 37.479939		Lng. -122.193941															

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SIPP PROPERTY SCHEDULE
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Includes B & M

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Personal Property Trend Factor: 0.36%

November 01, 2016

Loc #	2nd Id	Address, City, Zip	Occupancy	Construction	Auto Spklr	Year Built	Year Apprs	Zone	Real Prop	Pers Prop	BI / Rents	Year	Real Property	Personal Property	BI / Rents	Totals
115	G	LIBRARY BUILDING 903 TENTH AVENUE REDWOOD CITY CA 94063 Stories: 1	4,765 SQ. FT. TAFT ELEMENTARY Pct. Sprnkl: 0%	Class: D ALL COMB (WOOD FRAME)	No	1951	2014	EQ: A1 Flood: X	No Yes	No Yes	No Yes	*2015* **2016**	*$1,200,000* **$1,200,000**	*$635,000* **$635,000**	*$0* **$0**	*$1,835,000* **$1,835,000**
Lat: 37.479939		Lng. -122.193941														
115	H	CLASSROOMS 504-505, 605-606 & TAFT FAMILY CENTER 903 TENTH AVENUE REDWOOD CITY CA 94063 Stories: 1	7,448 SQ. FT. TAFT ELEMENTARY Pct. Sprnkl: 0%	Class: D ALL COMB (WOOD FRAME)	No	1951	2014	EQ: A1 Flood: X	No Yes	No Yes	No Yes	*2015* **2016**	*$1,802,000* **$1,802,000**	*$253,200* **$253,200**	*$0* **$0**	*$2,055,200* **$2,055,200**
Lat: 37.479939		Lng. -122.193941														
115	I	RESTROOM BUILDING 903 TENTH AVENUE REDWOOD CITY CA 94063 Stories: 1	429 SQ. FT. TAFT ELEMENTARY Pct. Sprnkl: 0%	Class: D ALL COMB (WOOD FRAME)	No	1951	2014	EQ: A1 Flood: X	No Yes	No Yes	No Yes	*2015* **2016**	*$120,000* **$120,000**	*$0* **$0**	*$0* **$0**	*$120,000* **$120,000**
Lat: 37.479939		Lng. -122.193941														
115	J	RESTROOM BUILDING 903 TENTH AVENUE REDWOOD CITY CA 94063 Stories: 1	429 SQ. FT. TAFT ELEMENTARY Pct. Sprnkl: 0%	Class: D ALL COMB (WOOD FRAME)	No	1951	2014	EQ: A1 Flood: X	No Yes	No Yes	No Yes	*2015* **2016**	*$120,000* **$120,000**	*$0* **$0**	*$0* **$0**	*$120,000* **$120,000**
Lat: 37.479939		Lng. -122.193941														
115	K	RESTROOM BUILDING 903 TENTH AVENUE REDWOOD CITY CA 94063 Stories: 1	456 SQ. FT. TAFT ELEMENTARY Pct. Sprnkl: 0%	Class: D ALL COMB (WOOD FRAME)	No	1951	2014	EQ: A1 Flood: X	No Yes	No Yes	No Yes	*2015* **2016**	*$125,000* **$125,000**	*$0* **$0**	*$0* **$0**	*$125,000* **$125,000**
Lat: 37.479939		Lng. -122.193941														
115	L	DESIGNED MOBILE DAYCARE PORTABLE 903 TENTH AVENUE REDWOOD CITY CA 94063 Stories: 1	960 SQ. FT. TAFT ELEMENTARY Pct. Sprnkl: 0%	Class: D ALL COMB (WOOD FRAME)	No	1997	2014	EQ: A1 Flood: X	No Yes	No Yes	No Yes	*2015* **2016**	*$114,000* **$114,000**	*$26,300* **$26,300**	*$0* **$0**	*$140,300* **$140,300**
Lat: 37.479939		Lng. -122.193941														

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SIPP PROPERTY SCHEDULE
REDWOOD CITY SCHOOL DISTRICT (SMCSIG)

Includes B & M

Real Property Trend Factor: 0.90%
Personal Property Trend Factor: 0.36%

November 01, 2016

Loc #	2nd Id	Address, City, Zip	Occupancy	Construction	Auto Spklr	Year Built	Year Apprs	Zone	Real Prop	Pers Prop	BI / Rents	Year	Real Property	Personal Property	BI / Rents	Totals
115	M	DESIGNED MOBILE PRESCHOOL 903 TENTH AVENUE REDWOOD CITY CA 94063 Stories: 1 Lat: 37.479939 Lng. -122.193941	960 SQ. FT. TAFT ELEMENTARY Pct. Sprnkl: 0%	Class: D ALL COMB (WOOD FRAME)	No	1997	2014	EQ: A1 Flood: X	No Yes	No Yes	No Yes	*2015* **2016**	*$114,000* **$114,000**	*$26,300* **$26,300**	*$0* **$0**	*$140,300* **$140,300**
115	N	PORTABLE ENVIROPLEX, INC. CDC OFFICE 903 TENTH AVENUE REDWOOD CITY CA 94063 Stories: 1 Lat: 37.479939 Lng. -122.193941	1,200 SQ. FT. TAFT ELEMENTARY Pct. Sprnkl: 0%	Class: D ALL COMB (WOOD FRAME)	No	1997	2014	EQ: A1 Flood: X	No Yes	No Yes	No Yes	*2015* **2016**	*$143,000* **$143,000**	*$26,300* **$26,300**	*$0* **$0**	*$169,300* **$169,300**
115	O	MULTI-PURPOSE/FOOD SERVICE BUILDING 903 TENTH AVENUE REDWOOD CITY CA 94063 Stories: 1 Lat: 37.479939 Lng. -122.193941	6,645 SQ. FT. TAFT ELEMENTARY Pct. Sprnkl: 0%	Class: D ALL COMB (WOOD FRAME)	No	1951	2014	EQ: A1 Flood: X	No Yes	No Yes	No Yes	*2015* **2016**	*$1,660,000* **$1,660,000**	*$147,600* **$147,600**	*$0* **$0**	*$1,807,600* **$1,807,600**
115	P	CLASSROOMS 501-503 & 601-604 BUILDING 903 TENTH AVENUE REDWOOD CITY CA 94063 Stories: 1 Lat: 37.479939 Lng. -122.193941	7,804 SQ. FT. TAFT ELEMENTARY Pct. Sprnkl: 0%	Class: D ALL COMB (WOOD FRAME)	No	1951	2014	EQ: A1 Flood: X	No Yes	No Yes	No Yes	*2015* **2016**	*$1,888,000* **$1,888,000**	*$265,300* **$265,300**	*$0* **$0**	*$2,153,300* **$2,153,300**
115	Q	RESTROOM BUILDING 903 TENTH AVENUE REDWOOD CITY CA 94063 Stories: 1 Lat: 37.479939 Lng. -122.193941	453 SQ. FT. TAFT ELEMENTARY Pct. Sprnkl: 0%	Class: D ALL COMB (WOOD FRAME)	No	1951	2014	EQ: A1 Flood: X	No Yes	No Yes	No Yes	*2015* **2016**	*$122,000* **$122,000**	*$0* **$0**	*$0* **$0**	*$122,000* **$122,000**

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SIPP PROPERTY SCHEDULE
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Includes B & M

Real Property Trend Factor: 0.90%
Personal Property Trend Factor: 0.36%

November 01, 2016

Loc #	2nd Id	Address, City, Zip	Occupancy	Construction	Auto Spklr	Year Built	Year Apprs	Zone	Real Prop	Pers Prop	BI / Rents	Year	Real Property	Personal Property	BI / Rents	Totals
115	R	CARGO CONTAINER #1	96 SQ. FT.	Class: S	No	1980	2014	EQ: A1	No	No	No	*2015*	*$1,500*	*$2,000*	*$0*	*$3,500*
		903 TENTH AVENUE	TAFT ELEMENTARY	ALL STEEL				Flood: X	Yes	Yes	Yes	**2016**	**$1,500**	**$2,000**	**$0**	**$3,500**
		REDWOOD CITY CA 94063														
		Stories: 1	Pct. Sprnkl: 0%													
Lat: 37.479939		Lng. -122.193941														
115	S	CARGO CONTAINER #2	160 SQ. FT.	Class: S	No	1980	2014	EQ: A1	No	No	No	*2015*	*$3,000*	*$4,000*	*$0*	*$7,000*
		903 TENTH AVENUE	TAFT ELEMENTARY	ALL STEEL				Flood: X	Yes	Yes	Yes	**2016**	**$3,000**	**$4,000**	**$0**	**$7,000**
		REDWOOD CITY CA 94063														
		Stories: 1	Pct. Sprnkl: 0%													
Lat: 37.479939		Lng. -122.193941														
115	T	COVERED WALKWAYS	2,194 SQ. FT.	Class: D	No	1951	2014	EQ: A1	No	No	No	*2015*	*$70,000*	*$0*	*$0*	*$70,000*
		903 TENTH AVENUE	TAFT ELEMENTARY	ALL COMB (WOOD FRAME)				Flood: X	Yes	Yes	Yes	**2016**	**$70,000**	**$0**	**$0**	**$70,000**
		REDWOOD CITY CA 94063														
		Stories: 1	Pct. Sprnkl: 0%													
Lat: 37.479939		Lng. -122.193941														
116		CLASSROOMS 1-2 BUILDING	2,400 SQ. FT.	Class: C	No	1949	2014	EQ: A1	No	No	No	*2015*	*$581,000*	*$81,600*	*$0*	*$662,600*
		909 ROOSEVELT AVENUE	HORACE HAWES	MASONRY CONST/WOOD ROOF				Flood: X	Yes	Yes	Yes	**2016**	**$581,000**	**$81,600**	**$0**	**$662,600**
		REDWOOD CITY CA 94061	ELEMENTARY													
		Stories: 1														
Lat: 37.473309		Lng. -122.232860	Pct. Sprnkl: 0%													
116	A	CLASSROOMS 3-8 BUILDING	5,670 SQ. FT.	Class: C	No	1949	2014	EQ: A1	No	No	No	*2015*	*$1,372,000*	*$192,800*	*$0*	*$1,564,800*
		909 ROOSEVELT AVENUE	HORACE HAWES	MASONRY CONST/WOOD ROOF				Flood: X	Yes	Yes	Yes	**2016**	**$1,372,000**	**$192,800**	**$0**	**$1,564,800**
		REDWOOD CITY CA 94061	ELEMENTARY													
		Stories: 1														
Lat: 37.473309		Lng. -122.232860	Pct. Sprnkl: 0%													
116	B	CLASSROOMS 9-10, 12, 13,	5,673 SQ. FT.	Class: C	No	1949	2014	EQ: A1	No	No	No	*2015*	*$1,372,000*	*$192,800*	*$0*	*$1,564,800*
		STAFF, RESOURCE BLDG	HORACE HAWES	MASONRY CONST/WOOD ROOF				Flood: X	Yes	Yes	Yes	**2016**	**$1,372,000**	**$192,800**	**$0**	**$1,564,800**
		909 ROOSEVELT AVENUE	ELEMENTARY													
		REDWOOD CITY CA 94061														
		Stories: 1	Pct. Sprnkl: 0%													
Lat: 37.473309		Lng. -122.232860														

Appendix C

Environmental Database Report

Taft Community School
903 Tenth Avenue
Redwood City, CA 94063

Inquiry Number: 4955887.2s
June 05, 2017

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
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Orphan Summary	137
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GEOCHECK ADDENDUM

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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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

903 TENTH AVENUE
REDWOOD CITY, CA 94063

COORDINATES

Latitude (North):	37.4810080 - 37° 28' 51.62''
Longitude (West):	122.1944250 - 122° 11' 39.93''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	571225.2
UTM Y (Meters):	4148334.5
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640620 PALO ALTO, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140608
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
903 TENTH AVENUE
REDWOOD CITY, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	REDWOOD CITY USD / T	903 10TH AVE	CA HAZNET		TP
A2	TAFT SCHOOL	903 10TH AVE	CA HAZNET		TP
A3	REDWOOD CITY USD TAF	TENTH AVE AT BAY RD	FINDS, ECHO		TP
A4	RCSD - TAFT ELEMENTA	903 10TH AVE	CA HAZNET		TP
A5	REDWOOD CITY USD TAF	TENTH AVE AT BAY RD	RCRA-SQG		TP
6	FARM	27401 HWY 9	CA SWEEPS UST, CA San Mateo Co. BI	Higher	50, 0.009, SW
7	EAST WEST AUTO WORKS	14 YARNALL PL	EDR Hist Auto	Lower	610, 0.116, NE
B8	5TH AVE 76	844 5TH	CA San Mateo Co. BI	Higher	773, 0.146, West
B9	UNION OIL SS# 3810	844 5TH AVE	CA HIST UST	Higher	773, 0.146, West
B10	BAY ROAD UNOCAL 76 #	844 5TH	CA San Mateo Co. BI	Higher	773, 0.146, West
B11	CONOCO PHILLIPS #253	844 FIFTH AVE	CA HIST UST, CA HAZNET	Higher	773, 0.146, West
B12	UNOCAL #3810	844 5TH AVE	CA UST	Higher	835, 0.158, West
B13	UNOCAL #3810	844 5TH	CA LUST, CA HIST UST	Higher	835, 0.158, West
B14	UNOCAL STATION #3810	844 5TH AVENUE	CA LUST, CA HIST CORTESE	Higher	835, 0.158, West
B15	7-ELEVEN INC. STORE	895 5TH	CA San Mateo Co. BI	Higher	878, 0.166, West
C16	PAW PRINTS	3166 BAY	CA San Mateo Co. BI	Higher	1058, 0.200, West
D17	JOES FIAT SERVICE	819 5TH	CA San Mateo Co. BI	Higher	1129, 0.214, West
D18	FIFTH AVENUE SERVICE	795 005TH AVE	CA FID UST	Higher	1149, 0.218, WSW
D19	AT&T REDWOOD CITY	3175 SPRING ST	CA SWEEPS UST, CA FID UST	Higher	1201, 0.227, WSW
D20	AT&T CORP. - P3066	3175 SPRING	CA LUST, CA San Mateo Co. BI	Higher	1201, 0.227, WSW
D21	AT&T COMUNICATIONS	3175 SPRING	CA AST	Higher	1201, 0.227, WSW
D22	AT&T CORP - P3066	3175 SPRING ST	CA AST	Higher	1201, 0.227, WSW
D23	AT&T CORP. - P3066	3175 SPRING ST	CA UST	Higher	1201, 0.227, WSW
D24	REDWOOD CITY 4A	3175 SPRING ST	CA HIST UST	Higher	1201, 0.227, WSW
D25	AT&T	3175 SPRING STREET	CA LUST, CA HIST CORTESE	Higher	1201, 0.227, WSW
D26	PACIFIC BELL	3175 SPRING STREET	RCRA-SQG, FINDS, ECHO	Higher	1201, 0.227, WSW
D27	5TH AVE SERVICE	795 5TH	CA LUST, CA SWEEPS UST, CA HIST CORTESE	Higher	1233, 0.234, WSW
D28	VALERO	795 5TH	CA San Mateo Co. BI	Higher	1233, 0.234, WSW
D29	K & A PETROLEUM INC/	795 5TH AVE	CA UST	Higher	1233, 0.234, WSW
D30	FIFTH AVENUE SERVICE	795-FIFTH AVE	CA HIST UST	Higher	1233, 0.234, WSW
D31	5TH AVE SERVICE	795 5TH	CA LUST, CA HIST UST	Higher	1233, 0.234, WSW
E32	TRACE ANALYTICAL INC	3517 EDISON	CA San Mateo Co. BI	Higher	1233, 0.234, SSW
D33	PORTABLE WATER SUPPL	3184 SPRING	CA San Mateo Co. BI	Higher	1234, 0.234, WSW
D34	WELTER STENCIL & ENG	793 5TH	CA San Mateo Co. BI	Higher	1237, 0.234, WSW
E35	DIETER'S GERMAN CAR	3511 EDISON WAY	CA San Mateo Co. BI, CA HAZNET	Higher	1253, 0.237, SSW
E36	JOHN ZENDER CONSULTI	3507 EDISON	CA San Mateo Co. BI	Higher	1274, 0.241, SSW
D37	REMCO ENTERPRISES IN	3160 SPRING	CA San Mateo Co. BI	Higher	1298, 0.246, WSW
C38	ICE OASIS	3140 BAY	CA San Mateo Co. BI	Higher	1300, 0.246, West
39	EDISON TECHNOLOGY PA	3477-3522 EDISON WAY	CA LUST, CA SLIC	Higher	1380, 0.261, SSW

MAPPED SITES SUMMARY

Target Property Address:
903 TENTH AVENUE
REDWOOD CITY, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	GILLIS & LANE INC.	830 2ND	CA LUST, CA HIST CORTESE	Higher	1747, 0.331, West
F41	PIC	3004 SPRING	CA LUST, CA HIST CORTESE	Higher	1879, 0.356, West
F42	PIC	3004 SPRING	CA LUST, CA AST, CA Notify 65	Higher	1879, 0.356, West
G43	KOBLICK SUPPLY	2950 BAY	CA LUST, CA SWEEPS UST, CA HIST CORTESE	Lower	2000, 0.379, WNW
G44	MR. HAUL	867 SECOND AVENUE	CA SWF/LF	Higher	2025, 0.384, West
G45	PACIFIC BELL	867 2ND AVENUE	RCRA-SQG, CA LUST, CA HIST UST, FINDS, ECHO, CA...	Higher	2025, 0.384, West
H46	MENLO PARK FIRE DIST	4101 FAIR OAKS	CA San Mateo Co. BI, CA HIST CORTESE	Higher	2050, 0.388, SSE
H47	MENLO PARK FIRE DIST	4101 FAIR OAKS	CA LUST	Higher	2052, 0.389, SSE
48	FORMER GAS STATION	955 MARSH ROAD	CA Notify 65	Higher	2068, 0.392, ESE
49	AMPEX DATA SYSTEMS C	1228 DOUGLAS AVE	RCRA-SQG, CA LUST, CA SLIC, FINDS, ECHO, CA EMI,...	Lower	2099, 0.398, NW
G50	MEWES PROPERTY	2906 BAY	CA LUST	Lower	2203, 0.417, WNW
I51	SEQUOIA MILL	2575 EAST BAYSHORE R	CA LUST, CA HIST CORTESE	Lower	2224, 0.421, NNW
I52	SEQUOIA MILL	2575 E BAYSHORE RD	CA LUST, CA HIST UST	Lower	2224, 0.421, NNW
J53	DELUCA FOODS	832 BARRON	CA LUST, CA HIST CORTESE	Higher	2283, 0.432, West
J54	R A DE LUCA	832 BARRON AVE	CA LUST, CA SWEEPS UST	Higher	2283, 0.432, West
K55	DELUCCHI PROPERTY	995 MARSH	CA LUST	Higher	2321, 0.440, ESE
K56	DELUCCHI PROPERTY	995 MARSH ROAD	CA LUST, CA HIST CORTESE	Higher	2321, 0.440, ESE
57	MIDLAND PACIFIC CORP	3536 HAVEN	CA LUST, CA HIST CORTESE	Lower	2359, 0.447, NE
58	SEARS MERCHANDISE GR	1325 DOUGLAS	CA LUST, CA HIST CORTESE	Lower	2371, 0.449, NW
59	REDWOOD MOTOR COURT	3706 ROLISON ROAD	CA LUST	Lower	2467, 0.467, ENE
K60	CHEVRON	3805 BOHANNON	CA LUST, CA SWEEPS UST, CA San Mateo Co. BI, CA...	Higher	2476, 0.469, ESE
K61	CHEVRON 9-0754	3805 BOHANNON	CA LUST	Higher	2495, 0.473, ESE
K62	BOHANNON PARK	990 MARSH	CA LUST	Higher	2501, 0.474, ESE
K63	DELTA AUTO REPAIR	990 MARSH	CA LUST, CA San Mateo Co. BI, CA HIST CORTESE	Higher	2501, 0.474, ESE
L64	GENERAL CIRCUITS INC	3549 J HAVEN AVENUE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-SQG, CA...	Lower	2543, 0.482, NE
M65	CALTRANS DISTRICT 4	2501 E BAYSHORE BLVD	RCRA-SQG, CA LUST, FINDS, ECHO	Lower	2575, 0.488, NW
M66	CALTRANS MAINTENANCE	2501 EAST BAYSHORE R	CA LUST, CA SLIC, CA HIST CORTESE	Lower	2575, 0.488, NW
M67	CALTRANS-REDWOOD CIT	2501 BAYSHORE	CA LUST, CA San Mateo Co. BI	Lower	2575, 0.488, NW
68	MARSH ROAD DELI	763 MARSH	CA LUST, CA San Mateo Co. BI, CA HIST CORTESE	Higher	2630, 0.498, SE
L69	GENERAL CIRCUITS INC	3585 HAVEN AVENUE	CA ENVIROSTOR, CA HIST UST, CA San Mateo Co. BI,...	Lower	2763, 0.523, NE
L70	GENERAL CIRCUITS INC	3585 HAVEN AVENUE	SEMS-ARCHIVE, CORRACTS, RCRA-SQG, CA HAZNET	Lower	2763, 0.523, NE
N71	KLIKLOK CO. (BUILDIN	2661 SPRING	CA ENVIROSTOR, CA HIST CORTESE	Higher	3610, 0.684, West
N72	UNKNOWN	860 HURLINGAMES	CA Notify 65	Higher	3618, 0.685, WNW
73	PETERSEN PRECISION E	611 BROADWAY STREET	CA ENVIROSTOR	Lower	3935, 0.745, WNW
74	SEIBERT, J., MACHINE	119 INDEPENDENCE DR.	CA ENVIROSTOR, CA San Mateo Co. BI	Lower	4584, 0.868, ENE
O75	COORS WEST	890 BROADWAY	CA LUST, CA Notify 65	Lower	4711, 0.892, WNW
O76	TYDEMAN MACHINE WORK	BROADWAY AND CHARTER	CA ENVIROSTOR	Lower	4895, 0.927, WNW
77	STAR TOOL & ENGINEER	860 CHARTER	CA ENVIROSTOR, CA SLIC, CA VCP, CA San Mateo Co....	Lower	4930, 0.934, WNW
78	UNKNOWN	197 FIFTH AVENUE	CA Notify 65	Higher	5030, 0.953, SW

MAPPED SITES SUMMARY

Target Property Address:
903 TENTH AVENUE
REDWOOD CITY, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
79	COORS WEST	2700 MIDDLEFIELD ROA	CA Notify 65	Higher	5233, 0.991, WSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
REDWOOD CITY USD / T 903 10TH AVE REDWOOD CITY, CA 94063	CA HAZNET GEPAID: CAC002367511	N/A
TAFT SCHOOL 903 10TH AVE REDWOOD CITY, CA 94063	CA HAZNET GEPAID: CAC002681022 GEPAID: CAC002737007	N/A
REDWOOD CITY USD TAF TENTH AVE AT BAY RD REDWOOD CITY, CA 94063	FINDS Registry ID:: 110008272001 ECHO	N/A
RCSD - TAFT ELEMENTA 903 10TH AVE REDWOOD CITY, CA 94063	CA HAZNET GEPAID: CAC002579346	N/A
REDWOOD CITY USD TAF TENTH AVE AT BAY RD REDWOOD CITY, CA 94063	RCRA-SQG EPA ID:: CAD981678097	CAD981678097

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

CA RESPONSE..... State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

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 SWRCY..... Recycler 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 HIST Cal-Sites	Historical Calsites Database
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
CA DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CA CHMIRS	California Hazardous Material Incident Report System
CA LDS	Land Disposal Sites Listing
CA MCS	Military Cleanup Sites Listing
CA SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees

INDIAN RESERV Indian Reservations
FUSRAP Formerly Utilized Sites Remedial Action Program
UMTRA Uranium Mill Tailings Sites
LEAD SMELTERS Lead Smelter Sites
US AIRS Aerometric Information Retrieval System Facility Subsystem
US MINES Mines Master Index File
ABANDONED MINES Abandoned Mines
UXO Unexploded Ordnance Sites
DOCKET HWC Hazardous Waste Compliance Docket Listing
FUELS PROGRAM EPA Fuels Program Registered Listing
CA BOND EXP. PLAN Bond Expenditure Plan
CA Cortese "Cortese" Hazardous Waste & Substances Sites List
CA CUPA Listings CUPA Resources List
CA DRYCLEANERS Cleaner Facilities
CA ENF Enforcement Action Listing
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 NPDES NPDES Permits Listing
CA PEST LIC Pesticide Regulation Licenses Listing
CA PROC Certified Processors Database
CA UIC UIC Listing
CA WASTEWATER PITS Oil Wastewater Pits Listing
CA WDS Waste Discharge System
CA WIP Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner EDR Exclusive Historic Dry Cleaners

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.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 02/07/2017 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***

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 12/12/2016 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***
GENERAL CIRCUITS INC	***3585 HAVEN AVENUE***	***NE 1/2 - 1 (0.523 mi.)***	***L70***	***122***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: 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.

A review of the RCRA-TSDF list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***

EXECUTIVE SUMMARY

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC BELL	***3175 SPRING STREET***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D26***	***31***

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 01/30/2017 has revealed that there are 7 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KLIKLOK CO. (BUILDIN Facility Id: 41340063 Status: Inactive - Needs Evaluation	***2661 SPRING***	***W 1/2 - 1 (0.684 mi.)***	***N71***	***125***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC Facility Id: 80001670 Status: Refer: EPA	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***
GENERAL CIRCUITS INC Facility Id: 80001497 Status: Inactive - Needs Evaluation	***3585 HAVEN AVENUE***	***NE 1/2 - 1 (0.523 mi.)***	***L69***	***120***
PETERSEN PRECISION E Facility Id: 60001134 Status: No Action Required	611 BROADWAY STREET	WNW 1/2 - 1 (0.745 mi.)	73	127
SEIBERT, J., MACHINE Facility Id: 41350016 Status: Refer: Other Agency	***119 INDEPENDENCE DR.***	***ENE 1/2 - 1 (0.868 mi.)***	***74***	***128***
TYDEMAN MACHINE WORK	BROADWAY AND CHARTER	WNW 1/2 - 1 (0.927 mi.)	O76	131

Facility Id: 41340062
Status: No Action Required

STAR TOOL & ENGINEER ***860 CHARTER*** ***WNW 1/2 - 1 (0.934 mi.)*** ***77*** ***132***
Facility Id: 60002245
Status: Active

State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the CA SWF/LF list, as provided by EDR, has revealed that there is 1 CA SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MR. HAUL	867 SECOND AVENUE	W 1/4 - 1/2 (0.384 mi.)	G44	66
Database: SWF/LF (SWIS), Date of Government Version: 02/13/2017 Facility ID: 41-AA-0181 Operational Status: Active Regulation Status: Notification				

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
UNOCAL #3810	***844 5TH***	***W 1/8 - 1/4 (0.158 mi.)***	***B13***	***17***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Status: Post remedial action monitoring				
UNOCAL STATION #3810	***844 5TH AVENUE***	***W 1/8 - 1/4 (0.158 mi.)***	***B14***	***19***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: 330075 Facility Status: 9- Case Closed Global Id: T0608100591 Global ID: T0608100591				
AT&T CORP. - P3066	***3175 SPRING***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D20***	***26***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Status: Case Closed date9: 9/5/2000				
AT&T	***3175 SPRING STREET***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D25***	***30***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017 Database: LUST, Date of Government Version: 03/13/2017				

Status: Completed - Case Closed
Facility Id: 330016
Facility Status: 9- Case Closed
Global Id: T0608100044
Global ID: T0608100044

5TH AVE SERVICE ***795 5TH*** ***WSW 1/8 - 1/4 (0.234 mi.)*** ***D27*** ***33***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Open - Eligible for Closure
Facility Id: 330039
Facility Status: 8- Verification Monitoring Underway
Global Id: T0608100216
Global ID: T0608100216

5TH AVE SERVICE ***795 5TH*** ***WSW 1/8 - 1/4 (0.234 mi.)*** ***D31*** ***54***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Post remedial action monitoring

EDISON TECHNOLOGY PA ***3477-3522 EDISON WAY*** ***SSW 1/4 - 1/2 (0.261 mi.)*** ***39*** ***58***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Facility Id: 449093
Facility Status: 3B- Preliminary Assessment Underway
Global ID: T10000006237

GILLIS & LANE INC. ***830 2ND*** ***W 1/4 - 1/2 (0.331 mi.)*** ***40*** ***59***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330010
Facility Status: 9- Case Closed
Global Id: T0608100234
Global ID: T0608100234
date9: 12/6/1999

PIC ***3004 SPRING*** ***W 1/4 - 1/2 (0.356 mi.)*** ***F41*** ***61***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 330032
Facility Status: 9- Case Closed
Global Id: T0608100398
Global ID: T0608100398

PIC ***3004 SPRING*** ***W 1/4 - 1/2 (0.356 mi.)*** ***F42*** ***63***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 5/31/1996

PACIFIC BELL ***867 2ND AVENUE*** ***W 1/4 - 1/2 (0.384 mi.)*** ***G45*** ***67***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330011
Facility Status: 9- Case Closed
Global Id: T0608100379

Global ID: T0608100379
date9: 3/22/2001

MENLO PARK FIRE DIST 4101 FAIR OAKS SSE 1/4 - 1/2 (0.389 mi.) H47 71
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330155
Facility Status: 9- Case Closed
Global Id: T0608101001
Global ID: T0608101001
date9: 6/12/1998

DELUCA FOODS ***832 BARRON*** ***W 1/4 - 1/2 (0.432 mi.)*** ***J53*** ***86***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 330088
Facility Status: 9- Case Closed
Global Id: T0608100183
Global ID: T0608100183

R A DE LUCA ***832 BARRON AVE*** ***W 1/4 - 1/2 (0.432 mi.)*** ***J54*** ***87***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 7/28/1999

DELUCCHI PROPERTY 995 MARSH ESE 1/4 - 1/2 (0.440 mi.) K55 88
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 4/8/2003

DELUCCHI PROPERTY ***995 MARSH ROAD*** ***ESE 1/4 - 1/2 (0.440 mi.)*** ***K56*** ***89***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 330050
Facility Status: 9- Case Closed
Global Id: T0608100186
Global ID: T0608100186

CHEVRON ***3805 BOHANNON*** ***ESE 1/4 - 1/2 (0.469 mi.)*** ***K60*** ***97***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 440052
Facility Status: 9- Case Closed
Global Id: T0608100997
Global ID: T0608100997

CHEVRON 9-0754 3805 BOHANNON ESE 1/4 - 1/2 (0.473 mi.) K61 102
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 6/15/2004

BOHANNON PARK 990 MARSH ESE 1/4 - 1/2 (0.474 mi.) K62 102
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed

date9: 2/10/1994

DELTA AUTO REPAIR ***990 MARSH*** ***ESE 1/4 - 1/2 (0.474 mi.)*** ***K63*** ***103***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 440034
Facility Status: 9- Case Closed
Global Id: T0608100075
Global ID: T0608100075

MARSH ROAD DELI ***763 MARSH*** ***SE 1/4 - 1/2 (0.498 mi.)*** ***68*** ***118***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 440048
Facility Status: 9- Case Closed
Global Id: T0608100932
Global ID: T0608100932
date9: 4/21/2000

Lower Elevation	Address	Direction / Distance	Map ID	Page

KOBLICK SUPPLY ***2950 BAY*** ***WNW 1/4 - 1/2 (0.379 mi.)*** ***G43*** ***64***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330038
Facility Status: 9- Case Closed
Global Id: T0608101035
Global ID: T0608101035
date9: 9/27/1990

AMPEX DATA SYSTEMS C ***1228 DOUGLAS AVE*** ***NW 1/4 - 1/2 (0.398 mi.)*** ***49*** ***73***
MEWES PROPERTY 2906 BAY WNW 1/4 - 1/2 (0.417 mi.) G50 82
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330182
Facility Status: 9- Case Closed
Global Id: T0608123266
Global ID: T0608123266
date9: 3/20/2000

SEQUOIA MILL ***2575 EAST BAYSHORE R*** ***NNW 1/4 - 1/2 (0.421 mi.)*** ***I51*** ***84***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Global Id: T0608100682
date9: 9/19/1994

SEQUOIA MILL ***2575 E BAYSHORE RD*** ***NNW 1/4 - 1/2 (0.421 mi.)*** ***I52*** ***85***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017

Facility Id: 330063
Facility Status: 9- Case Closed
Global ID: T0608100682

MIDLAND PACIFIC CORP ***3536 HAVEN*** ***NE 1/4 - 1/2 (0.447 mi.)*** ***57*** ***90***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 440031
Facility Status: 9- Case Closed
Global Id: T0608100330
Global ID: T0608100330
date9: 10/24/1995

SEARS MERCHANDISE GR ***1325 DOUGLAS*** ***NW 1/4 - 1/2 (0.449 mi.)*** ***58*** ***92***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330131
Facility Status: 9- Case Closed
Global Id: T0608100843
Global ID: T0608100843
date9: 12/7/1995

REDWOOD MOTOR COURT 3706 ROLISON ROAD ENE 1/4 - 1/2 (0.467 mi.) 59 94
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Post remedial action monitoring
Facility Id: 330187
Facility Status: 9- Case Closed
Global Id: T0608114600
Global ID: T0608114600

CALTRANS DISTRICT 4 ***2501 E BAYSHORE BLVD*** ***NW 1/4 - 1/2 (0.488 mi.)*** ***M65*** ***111***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Facility Id: 339203
Facility Id: 330147
Facility Status: 9- Case Closed
Global ID: T0608197613
Global ID: T0608100923

CALTRANS MAINTENANCE ***2501 EAST BAYSHORE R*** ***NW 1/4 - 1/2 (0.488 mi.)*** ***M66*** ***113***
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Global Id: T0608100923

CALTRANS-REDWOOD CIT ***2501 BAYSHORE*** ***NW 1/4 - 1/2 (0.488 mi.)*** ***M67*** ***117***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Pollution Characterization

CA 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 SLIC list, as provided by EDR, has revealed that there are 3 CA SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EDISON TECHNOLOGY PA	***3477-3522 EDISON WAY***	***SSW 1/4 - 1/2 (0.261 mi.)***	***39***	***58***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Site Assessment Global Id: T10000006237				

Lower Elevation	Address	Direction / Distance	Map ID	Page
AMPEX DATA SYSTEMS C	***1228 DOUGLAS AVE***	***NW 1/4 - 1/2 (0.398 mi.)***	***49***	***73***
CALTRANS MAINTENANCE	***2501 EAST BAYSHORE R***	***NW 1/4 - 1/2 (0.488 mi.)***	***M66***	***113***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T0608197613				

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 3 CA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL #3810 Database: UST, Date of Government Version: 03/12/2017 Facility Id: 41-000-017324	844 5TH AVE	W 1/8 - 1/4 (0.158 mi.)	B12	17
AT&T CORP. - P3066 Database: UST, Date of Government Version: 03/12/2017 Facility Id: 41-000-TMP433	3175 SPRING ST	WSW 1/8 - 1/4 (0.227 mi.)	D23	29
K & A PETROLEUM INC/ Database: UST, Date of Government Version: 03/12/2017	795 5TH AVE	WSW 1/8 - 1/4 (0.234 mi.)	D29	52

CA AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the CA AST list, as provided by EDR, and dated 07/06/2016 has revealed that there are 2 CA AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AT&T COMUNICATIONS	3175 SPRING	WSW 1/8 - 1/4 (0.227 mi.)	D21	27
AT&T CORP - P3066	3175 SPRING ST	WSW 1/8 - 1/4 (0.227 mi.)	D22	28

ADDITIONAL ENVIRONMENTAL RECORDS

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 3 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FARM Comp Number: 650018	***27401 HWY 9***	***SW 0 - 1/8 (0.009 mi.)***	***6***	***12***
AT&T REDWOOD CITY Status: A Tank Status: A Comp Number: 330120	***3175 SPRING ST***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D19***	***26***
5TH AVE SERVICE Status: A Tank Status: A Comp Number: 330115	***795 5TH***	***WSW 1/8 - 1/4 (0.234 mi.)***	***D27***	***33***

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 6 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNION OIL SS# 3810 Facility Id: 00000061420	844 5TH AVE	W 1/8 - 1/4 (0.146 mi.)	B9	14
CONOCO PHILLIPS #253	***844 FIFTH AVE***	***W 1/8 - 1/4 (0.146 mi.)***	***B11***	***15***
UNOCAL #3810 Facility Id: 00000031665	***844 5TH***	***W 1/8 - 1/4 (0.158 mi.)***	***B13***	***17***
REDWOOD CITY 4A Facility Id: 00000044161	3175 SPRING ST	WSW 1/8 - 1/4 (0.227 mi.)	D24	29
FIFTH AVENUE SERVICE Facility Id: 00000017772	795-FIFTH AVE	WSW 1/8 - 1/4 (0.234 mi.)	D30	53
5TH AVE SERVICE Facility Id: 00000060687	***795 5TH***	***WSW 1/8 - 1/4 (0.234 mi.)***	***D31***	***54***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIFTH AVENUE SERVICE Facility Id: 41004883 Status: A	795 005TH AVE	WSW 1/8 - 1/4 (0.218 mi.)	D18	25
AT&T REDWOOD CITY Facility Id: 41000082 Status: A	***3175 SPRING ST***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D19***	***26***

Other Ascertainable Records

Hazardous Materials Business Plan, Hazardous Waste Generator, Underground Storage tanks

A review of the CA San Mateo Co. BI list, as provided by EDR, and dated 03/15/2017 has revealed that there are 15 CA San Mateo Co. BI sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FARM Facility Id: FA0016703	***27401 HWY 9***	***SW 0 - 1/8 (0.009 mi.)***	***6***	***12***
5TH AVE 76 Facility Id: FA0016476	844 5TH	W 1/8 - 1/4 (0.146 mi.)	B8	13
BAY ROAD UNOCAL 76 # Facility Id: FA0017324	844 5TH	W 1/8 - 1/4 (0.146 mi.)	B10	14
7-ELEVEN INC. STORE Facility Id: FA0055301	895 5TH	W 1/8 - 1/4 (0.166 mi.)	B15	24
PAW PRINTS Facility Id: FA0055481 Facility Id: FA0016563	3166 BAY	W 1/8 - 1/4 (0.200 mi.)	C16	24
JOES FIAT SERVICE Facility Id: FA0017448	819 5TH	W 1/8 - 1/4 (0.214 mi.)	D17	25
AT&T CORP. - P3066 Facility Id: FA0007966	***3175 SPRING***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D20***	***26***
VALERO Facility Id: FA0057217 Facility Id: FA0017350	795 5TH	WSW 1/8 - 1/4 (0.234 mi.)	D28	52
TRACE ANALYTICAL INC Facility Id: FA0022188 Facility Id: FA0027951 Facility Id: FA0045033 Facility Id: FA0052120	3517 EDISON	SSW 1/8 - 1/4 (0.234 mi.)	E32	55
PORTABLE WATER SUPPL Facility Id: FA0022227	3184 SPRING	WSW 1/8 - 1/4 (0.234 mi.)	D33	56
WELTER STENCIL & ENG Facility Id: FA0012787	793 5TH	WSW 1/8 - 1/4 (0.234 mi.)	D34	56
DIETER'S GERMAN CAR Facility Id: FA0017622	***3511 EDISON WAY***	***SSW 1/8 - 1/4 (0.237 mi.)***	***E35***	***56***
JOHN ZENDER CONSULTI	3507 EDISON	SSW 1/8 - 1/4 (0.241 mi.)	E36	57

Facility Id: FA0023127 Facility Id: FA0052771				
REMCO ENTERPRISES IN Facility Id: FA0017379	3160 SPRING	WSW 1/8 - 1/4 (0.246 mi.)	D37	57
ICE OASIS Facility Id: FA0026254	3140 BAY	W 1/8 - 1/4 (0.246 mi.)	C38	58

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 18 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL STATION #3810 Reg Id: 41-0619	***844 5TH AVENUE***	***W 1/8 - 1/4 (0.158 mi.)***	***B14***	***19***
AT&T Reg Id: 41-0045	***3175 SPRING STREET***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D25***	***30***
5TH AVE SERVICE Reg Id: 41-0227	***795 5TH***	***WSW 1/8 - 1/4 (0.234 mi.)***	***D27***	***33***
GILLIS & LANE INC. Reg Id: 41-0246	***830 2ND***	***W 1/4 - 1/2 (0.331 mi.)***	***40***	***59***
PIC Reg Id: 41-0418	***3004 SPRING***	***W 1/4 - 1/2 (0.356 mi.)***	***F41***	***61***
PACIFIC BELL Reg Id: 41-0398	***867 2ND AVENUE***	***W 1/4 - 1/2 (0.384 mi.)***	***G45***	***67***
MENLO PARK FIRE DIST Reg Id: 41-1091	***4101 FAIR OAKS***	***SSE 1/4 - 1/2 (0.388 mi.)***	***H46***	***71***
DELUCA FOODS Reg Id: 41-0192	***832 BARRON***	***W 1/4 - 1/2 (0.432 mi.)***	***J53***	***86***
DELUCCHI PROPERTY Reg Id: 41-0195	***995 MARSH ROAD***	***ESE 1/4 - 1/2 (0.440 mi.)***	***K56***	***89***
CHEVRON Reg Id: 41-1086	***3805 BOHANNON***	***ESE 1/4 - 1/2 (0.469 mi.)***	***K60***	***97***
DELTA AUTO REPAIR Reg Id: 41-0080	***990 MARSH***	***ESE 1/4 - 1/2 (0.474 mi.)***	***K63***	***103***
MARSH ROAD DELI Reg Id: 41-1019	***763 MARSH***	***SE 1/4 - 1/2 (0.498 mi.)***	***68***	***118***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KOBLICK SUPPLY Reg Id: 41-1126	***2950 BAY***	***WNW 1/4 - 1/2 (0.379 mi.)***	***G43***	***64***
AMPEX DATA SYSTEMS C	***1228 DOUGLAS AVE***	***NW 1/4 - 1/2 (0.398 mi.)***	***49***	***73***
SEQUOIA MILL Reg Id: 41-0719	***2575 EAST BAYSHORE R***	***NNW 1/4 - 1/2 (0.421 mi.)***	***I51***	***84***
MIDLAND PACIFIC CORP	***3536 HAVEN***	***NE 1/4 - 1/2 (0.447 mi.)***	***57***	***90***

Reg Id: 41-0345				
SEARS MERCHANDISE GR	***1325 DOUGLAS***	***NW 1/4 - 1/2 (0.449 mi.)***	***58***	***92***
Reg Id: 41-0915				
CALTRANS MAINTENANCE	***2501 EAST BAYSHORE R***	***NW 1/4 - 1/2 (0.488 mi.)***	***M66***	***113***
Reg Id: 41-1009				

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 11/21/2016 has revealed that there are 2 CA HWP sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***
EPA Id: CAD074665704				
Cleanup Status: PROTECTIVE FILER				
GENERAL CIRCUITS INC	***3585 HAVEN AVENUE***	***NE 1/2 - 1 (0.523 mi.)***	***L69***	***120***
EPA Id: CAD982462335				
Cleanup Status: KNOWN GENERATORS				

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 12/16/2016 has revealed that there are 6 CA Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PIC	***3004 SPRING***	***W 1/4 - 1/2 (0.356 mi.)***	***F42***	***63***
FORMER GAS STATION	955 MARSH ROAD	ESE 1/4 - 1/2 (0.392 mi.)	48	73
UNKNOWN	860 HURLINGAMES	WNW 1/2 - 1 (0.685 mi.)	N72	126
UNKNOWN	197 FIFTH AVENUE	SW 1/2 - 1 (0.953 mi.)	78	135
COORS WEST	2700 MIDDLEFIELD ROA	WSW 1/2 - 1 (0.991 mi.)	79	136

Lower Elevation	Address	Direction / Distance	Map ID	Page
COORS WEST	***890 BROADWAY***	***WNW 1/2 - 1 (0.892 mi.)***	***O75***	***129***

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.

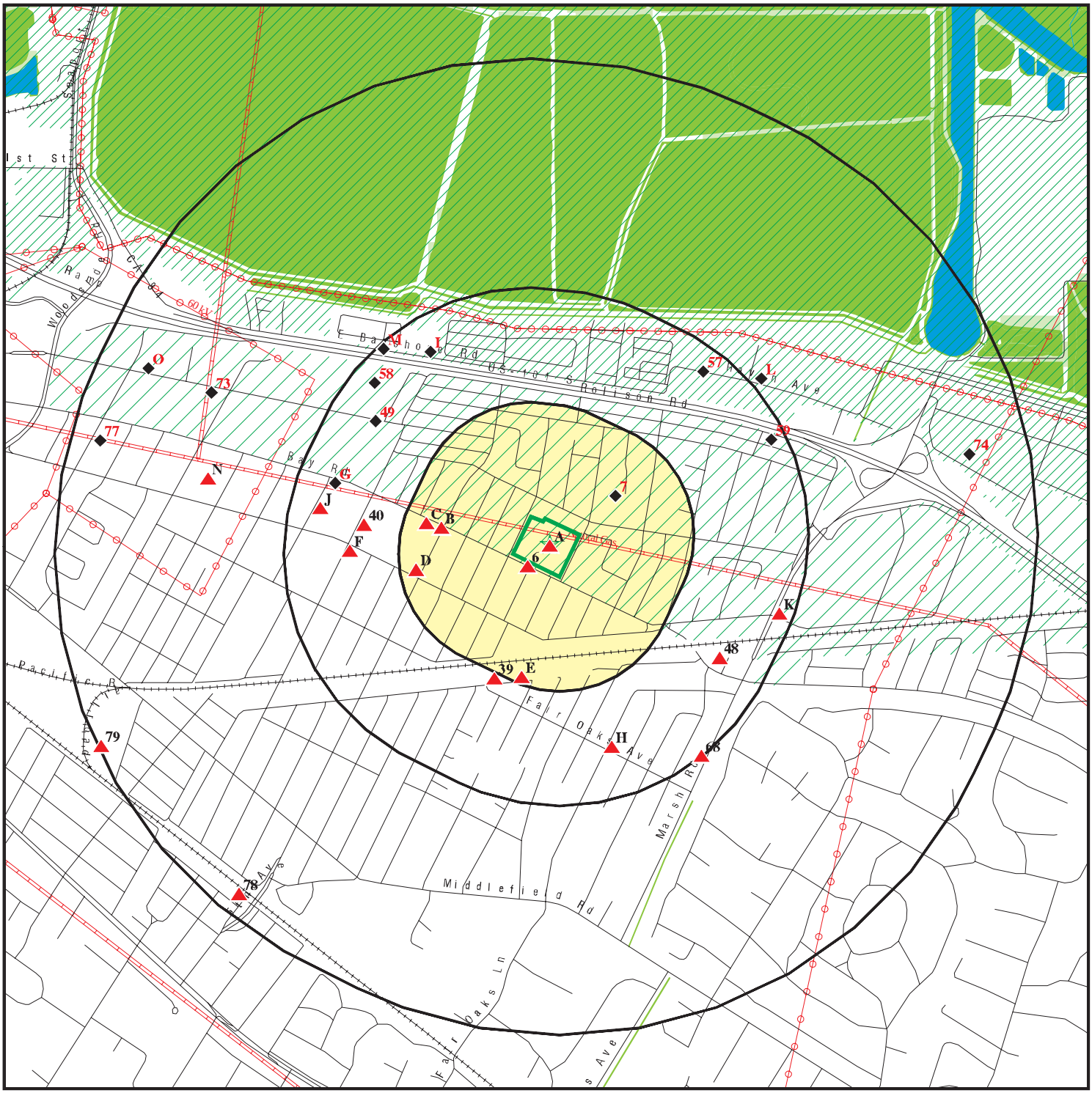
Lower Elevation	Address	Direction / Distance	Map ID	Page
EAST WEST AUTO WORKS	14 YARNALL PL	NE 0 - 1/8 (0.116 mi.)	7	13

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 7 records.

Site Name	Database(s)
BROWNING-FERRIS INDS	SEMS-ARCHIVE
MENLO PARK SAN DIST TRMT PLT	SEMS-ARCHIVE, RCRA NonGen / NLR
PG&E GAS PLANT REDWOOD CITY	SEMS-ARCHIVE
ANTON MENLO	CA LUST
HUETTIG & SCHROMM	CA LUST
SEQUOIA ALTERNATIVE SCHOOL	CA ENVIROSTOR, CA SCH
BROWNING-FERRIS INDUSTRIES	CA ENVIROSTOR

OVERVIEW MAP - 4955887.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 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: Taft Community School	CLIENT: McCloskey Consultants Inc
ADDRESS: 903 Tenth Avenue Redwood City CA 94063	CONTACT: Tom Mccloskey
LAT/LONG: 37.481008 / 122.194425	INQUIRY #: 4955887.2s DATE: June 05, 2017 10:01 am

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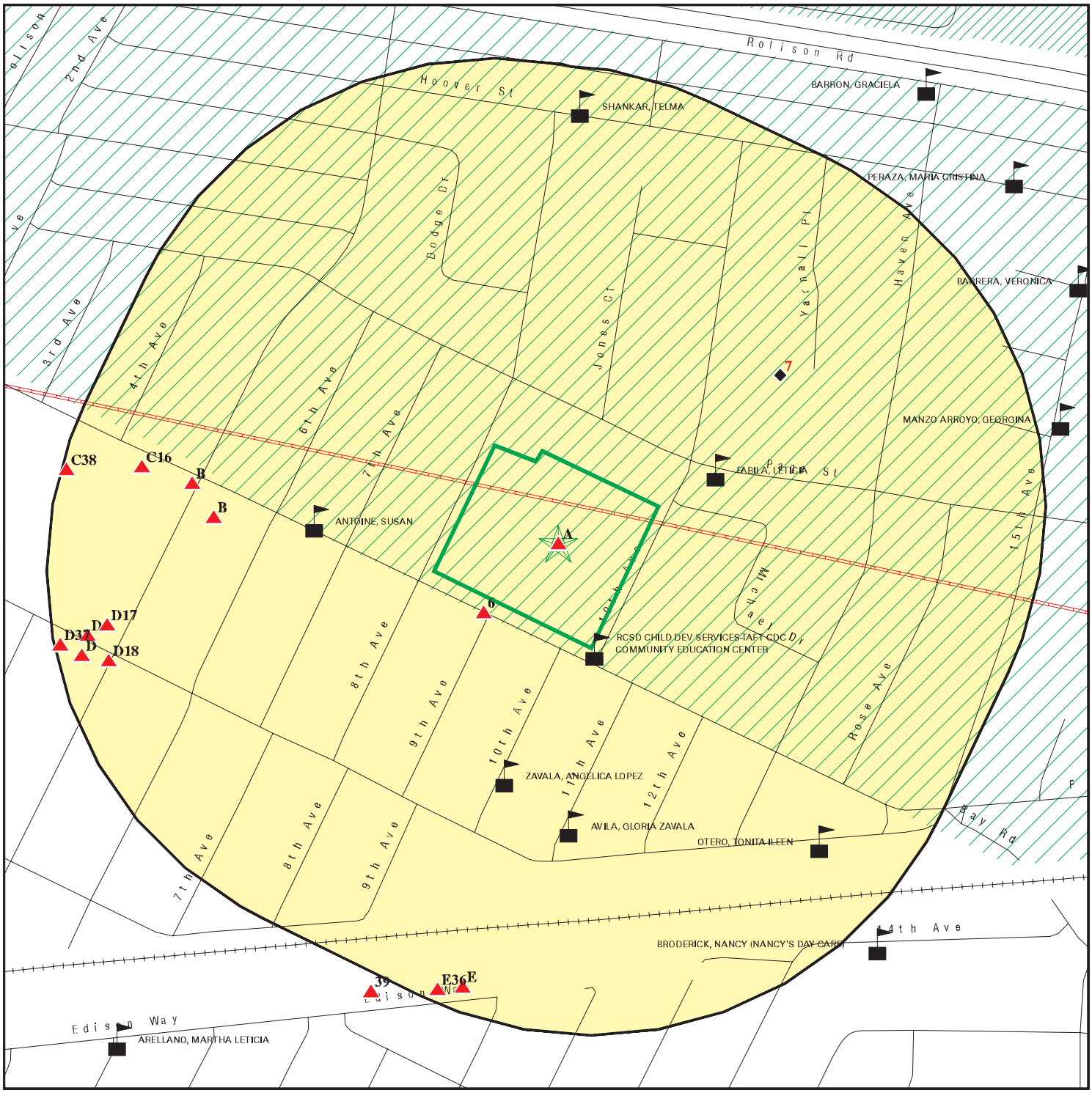
DETAIL MAP - 4955887.2S



- 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
- Indian Reservations BIA
- Pipelines
- 100-year flood zone
- 500-year flood zone
- 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: Taft Community School	CLIENT: McCloskey Consultants Inc
ADDRESS: 903 Tenth Avenue Redwood City CA 94063	CONTACT: Tom Mccloskey INQUIRY #: 4955887.2s
LAT/LONG: 37.481008 / 122.194425	DATE: June 05, 2017 10:04 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	1	1	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	1	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250	1	0	1	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST 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	0	0	NR	0
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		0	0	1	6	NR	7
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	0	1	NR	NR	1
State and tribal leaking storage tank lists								
CA LUST	0.500		0	6	26	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 SLIC	0.500		0	0	3	NR	NR	3
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		0	3	NR	NR	NR	3
CA AST	0.250		0	2	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
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	0	0	NR	NR	0
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	0	0	0	NR	0
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
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		1	2	NR	NR	NR	3
CA HIST UST	0.250		0	6	NR	NR	NR	6
CA FID UST	0.250		0	2	NR	NR	NR	2
Local Land Records								
CA LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	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
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		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	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	1	0	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA San Mateo Co. BI	0.250		1	14	NR	NR	NR	15
CA Cortese	0.500		0	0	0	NR	NR	0
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001		0	NR	NR	NR	NR	0
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	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
CA HAZNET	0.001	3	0	NR	NR	NR	NR	3
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		0	3	15	NR	NR	18
CA HWP	1.000		0	0	1	1	NR	2
CA HWT	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
CA MINES	0.001		0	NR	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	0.001		0	NR	NR	NR	NR	0
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	0	2	4	NR	6
CA UIC	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 WIP	0.250		0	0	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 --		6	3	39	52	12	0	112

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **REDWOOD CITY USD / TAFT ELEMENTARY** **CA HAZNET** **S112916128**
Target **903 10TH AVE** **N/A**
Property **REDWOOD CITY, CA 94063**

Site 1 of 5 in cluster A

Actual:
14 ft.

HAZNET:

envid:	S112916128
Year:	2001
GEPAID:	CAC002367511
Contact:	LENORA DESMAS
Telephone:	6504232240
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 940630000
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	33.71
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

envid:	S112916128
Year:	2001
GEPAID:	CAC002367511
Contact:	LENORA DESMAS
Telephone:	6504232240
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 940630000
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Not reported
Tons:	16.85
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

envid:	S112916128
Year:	2001
GEPAID:	CAC002367511
Contact:	LENORA DESMAS
Telephone:	6504232240
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 940630000
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Transfer Station
Tons:	1.26
Cat Decode:	Not reported
Method Decode:	Not reported

REDWOOD CITY USD / TAFT ELEMENTARY (Continued) **S112916128**

Facility County: San Mateo

A2 **TAFT SCHOOL** **CA HAZNET** **S112997331**
Target **903 10TH AVE** **N/A**
Property **REDWOOD CITY, CA 94063**

Site 2 of 5 in cluster A

Actual: 14 ft.

HAZNET:

envid:	S112997331
Year:	2013
GEPAID:	CAC002737007
Contact:	DONALD DIAS
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	601 JAMES AVE
Mailing City,St,Zip:	REDWOOD CITY, CA 940621044
Gen County:	San Mateo
TSD EPA ID:	CAD980675276
TSD County:	Kern
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:	0.04
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S112997331
Year:	2011
GEPAID:	CAC002681022
Contact:	LEE CHANDLER
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	601 JAMES AVE
Mailing City,St,Zip:	REDWOOD CITY, CA 94062
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
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:	0.25
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

A3 **REDWOOD CITY USD TAFT SCH** **FINDS** **1016264873**
Target **TENTH AVE AT BAY RD** **ECHO** **N/A**
Property **REDWOOD CITY, CA 94063**

Site 3 of 5 in cluster A

Actual:
14 ft.

FINDS:

Registry ID: 110008272001

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:	1016264873
Registry ID:	110008272001
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008272001

A4 **RCSD - TAFT ELEMENTARY SCHOOL** **CA HAZNET** **S112938675**
Target **903 10TH AVE** **N/A**
Property **REDWOOD CITY, CA 94063**

Site 4 of 5 in cluster A

Actual:
14 ft.

HAZNET:

envid:	S112938675
Year:	2005
GEPAID:	CAC002579346
Contact:	DON DIAZ/DIR OF FAC
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 94063
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	21.07
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

envid:	S112938675
Year:	2004
GEPAID:	CAC002579346
Contact:	DON DIAZ/DIR OF FAC
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST

RCSD - TAFT ELEMENTARY SCHOOL (Continued) **S112938675**

Mailing City,St,Zip:	REDWOOD CITY, CA 94063
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	84.28
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

envid:	S112938675
Year:	2004
GEPAID:	CAC002579346
Contact:	DON DIAZ/DIR OF FAC
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 94063
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Not reported
Tons:	15.17
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

A5 **REDWOOD CITY USD TAFT SCH** **RCRA-SQG** **1000438524**
Target **TENTH AVE AT BAY RD** **CAD981678097**
Property **REDWOOD CITY, CA 94063**

Site 5 of 5 in cluster A

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	REDWOOD CITY USD TAFT SCH
Facility address:	TENTH AVE AT BAY RD REDWOOD CITY, CA 94063
EPA ID:	CAD981678097
Mailing address:	815 ALLERTON ST REDWOOD CITY, CA 94063
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

REDWOOD CITY USD TAFT SCH (Continued) **1000438524**

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
- Legal status: District
- Owner/Operator Type: Operator
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: REDWOOD CITY SCHOOL
- Owner/operator address: NOT REQUIRED
  NOT REQUIRED, ME 99999
- Owner/operator country: Not reported
- Owner/operator telephone: (415) 555-1212
- Legal status: District
- 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: 10/09/1986
- Site name: REDWOOD CITY USD TAFT SCH
- Classification: Large Quantity Generator

- Violation Status: No violations found

---

6 **FARM** **CA SWEEPS UST** **S106926069**
SW **27401 HWY 9** **CA San Mateo Co. BI** **N/A**
< 1/8 **WOODSIDE, CA 94062**
0.009 mi.
50 ft.

Relative:
Higher

Actual:
15 ft.

SWEEPS UST:
- Status: Not reported
- Comp Number: 650018
- Number: Not reported
- Board Of Equalization: Not reported
- Referral Date: Not reported

FARM (Continued) **S106926069**

Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-650018-000001
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0016703
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0022729
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

---

7 **EAST WEST AUTO WORKS** **EDR Hist Auto** **1020618149**
NE **14 YARNALL PL** **N/A**
< 1/8 **REDWOOD CITY, CA 94063**
0.116 mi.
610 ft.

Relative: **Lower**

Actual: **13 ft.**

EDR Hist Auto

Year:	Name:	Type:
2004	EAST WEST AUTO WORKS	General Automotive Repair Shops
2005	EAST WEST AUTO WORKS	General Automotive Repair Shops
2006	EAST WEST AUTO WORKS	General Automotive Repair Shops

B8 **5TH AVE 76** **CA San Mateo Co. BI** **S113756233**
West **844 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.146 mi.
773 ft. **Site 1 of 8 in cluster B**

Relative: **Higher**

Actual: **15 ft.**

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0016476
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0065558
Description: GENERATES <27 GAL/YEAR
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0016476
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0065557
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0016476

5TH AVE 76 (Continued) **S113756233**

Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0065560
Description: UNDERGROUND TANK - GENERAL
Facility Status: ACTIVE

B9 **UNION OIL SS# 3810** **CA HIST UST** **1000167166**
West **844 5TH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.146 mi.
773 ft. **Site 2 of 8 in cluster B**

Relative:
Higher

Actual:
15 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000061420
Facility Type: Gas Station
Other Type: Not reported
Contact Name: HARRY L. ZIESE
Telephone: 4153686466
Owner Name: UNION OIL CO.
Owner Address: 1 CALIFORNIA ST., SUITE 2700
Owner City,St,Zip: SAN FRANCISCO, CA 94111
Total Tanks: 0001

Tank Num: 001
Container Num: 3810-10-1
Year Installed: 1968
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Visual

B10 **BAY ROAD UNOCAL 76 #253810** **CA San Mateo Co. BI** **S113756344**
West **844 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.146 mi.
773 ft. **Site 3 of 8 in cluster B**

Relative:
Higher

Actual:
15 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0017324
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0045020
Description: GENERATES <27 GAL/YEAR
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017324
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0003712
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: INACTIVE

Region: SAN MATEO

BAY ROAD UNOCAL 76 #253810 (Continued) **S113756344**

Facility ID: FA0017324
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0022414
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

B11 **CONOCO PHILLIPS #253810** **CA HIST UST** **S113132029**
West **844 FIFTH AVE** **CA HAZNET** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.146 mi.
773 ft. **Site 4 of 8 in cluster B**

Relative:
Higher

Actual:
15 ft.

HIST UST:

File Number:	0002C3E9
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C3E9.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
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:

HAZNET:

envid:	S113132029
Year:	2008
GEPAID:	CAL000282305
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481

CONOCO PHILLIPS #253810 (Continued) **S113132029**

TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Other Treatment
Tons:	0.1
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo
envid:	S113132029
Year:	2008
GEPAID:	CAL000282305
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Tons:	0.06
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo
envid:	S113132029
Year:	2008
GEPAID:	CAL000282305
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.034
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo
envid:	S113132029
Year:	2006
GEPAID:	CAL000282305
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD PO 3014A
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent

CONOCO PHILLIPS #253810 (Continued) **S113132029**

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.08
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Mateo

envid: S113132029
Year: 2006
GEPAID: CAL000282305
Contact: DANELLE EICHHORST
Telephone: 2812933723
Mailing Name: Not reported
Mailing Address: 600 N DAIRY ASHFORD PO 3014A
Mailing City,St,Zip: HOUSTON, TX 77079
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: 0.07
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Mateo

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

B12 **UNOCAL #3810** **CA UST** **U003942641**
West **844 5TH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.158 mi.
835 ft. **Site 5 of 8 in cluster B**

Relative:
Higher

Actual:
14 ft.

UST:
Facility ID: Not reported
Permitting Agency: San Mateo County Environmental Health
Latitude: 37.48127
Longitude: -122.198479

Facility ID: 41-000-017324
Permitting Agency: SAN MATEO COUNTY
Latitude: 37.482601
Longitude: -122.19712

B13 **UNOCAL #3810** **CA LUST** **U001594613**
West **844 5TH** **CA HIST UST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.158 mi.
835 ft. **Site 6 of 8 in cluster B**

Relative:
Higher

Actual:
14 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Post remedial action monitoring

UNOCAL #3810 (Continued) **U001594613**

Case Number: 330075
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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: 1/1/1965

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000031665
Facility Type: Gas Station
Other Type: Not reported
Contact Name: HARRY L. ZIESE
Telephone: 4153686466
Owner Name: UNION OIL CO.
Owner Address: 1 CALIFORNIA ST. SUITE 2700
Owner City,St,Zip: SAN FRANCISCO, CA 94111
Total Tanks: 0003

Tank Num: 001
Container Num: 3810-1-1
Year Installed: 1980
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 002
Container Num: 3810-2-1
Year Installed: 1980
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 003
Container Num: 3810-4-1
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

B14 **UNOCAL STATION #3810** **CA LUST** **S100947471**
West **844 5TH AVENUE** **CA HIST CORTESE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.158 mi.
835 ft. **Site 7 of 8 in cluster B**

Relative:
Higher

Actual:
14 ft.

LUST:

Region:	STATE
Global Id:	T0608100591
Latitude:	37.481269321147
Longitude:	-122.198513746262
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/07/2011
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0619
LOC Case Number:	330075
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Can be extracted from most recent report in Geotracker or at San Mateo County offices if submitted prior to 2005, San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100591
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100591
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

Status History:

Global Id:	T0608100591
Status:	Completed - Case Closed
Status Date:	09/07/2011

Global Id:	T0608100591
Status:	Open - Case Begin Date
Status Date:	12/21/1989

Global Id:	T0608100591
Status:	Open - Verification Monitoring

UNOCAL STATION #3810 (Continued) **S100947471**

Status Date: 01/19/1995

Regulatory Activities:

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 06/06/2011
Action: Staff Letter - #20110606

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2008
Action: Monitoring Report - Semi-Annually

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 06/15/2011
Action: Technical Correspondence / Assistance / Other - #20110615

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 04/26/2011
Action: Technical Correspondence / Assistance / Other - #20110426

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2010
Action: Monitoring Report - Annually

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/10/2005
Action: Monitoring Report - Other

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/10/2006
Action: Soil and Water Investigation Workplan

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2006
Action: Monitoring Report - Annually

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2007
Action: Monitoring Report - Annually

Global Id: T0608100591
Action Type: RESPONSE
Date: 02/07/2007
Action: Sensitive Receptor Survey Report

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2009
Action: Monitoring Report - Semi-Annually

UNOCAL STATION #3810 (Continued) **S100947471**

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 11/02/1990
Action: Notice of Responsibility - #19901102

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 12/14/2004
Action: Staff Letter - #20041214

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 02/07/2006
Action: Staff Letter - #20060207B

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 02/07/2006
Action: Staff Letter - #20060207A

Global Id: T0608100591
Action Type: Other
Date: 11/14/1989
Action: Leak Discovery

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 09/02/2010
Action: Technical Correspondence / Assistance / Other - #20100902

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 09/07/2011
Action: Closure/No Further Action Letter - #20110907

Global Id: T0608100591
Action Type: RESPONSE
Date: 12/31/2010
Action: Correspondence

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 07/22/2009
Action: Staff Letter - #20090722

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 03/30/2011
Action: Technical Correspondence / Assistance / Other - #20110330

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 12/21/2010
Action: Staff Letter - #20101221

Global Id: T0608100591
Action Type: Other

UNOCAL STATION #3810 (Continued) **S100947471**

Date: 11/01/1990
Action: Leak Reported

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/13/2011
Action: Well Destruction Report

Global Id: T0608100591
Action Type: RESPONSE
Date: 07/30/2010
Action: Request for Closure

Global Id: T0608100591
Action Type: RESPONSE
Date: 02/15/2010
Action: Electronic Reporting Submittal Due

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 01/04/2010
Action: Staff Letter - #20100104

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 01/24/2011
Action: Staff Letter - #20110124

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/10/2006
Action: Electronic Reporting Submittal Due

Global Id: T0608100591
Action Type: RESPONSE
Date: 02/07/2007
Action: Electronic Reporting Submittal Due

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/15/2008
Action: Monitoring Report - Semi-Annually

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 11/22/2010
Action: Staff Letter - #20101122

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 03/05/2009
Action: Staff Letter - #20090305

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/15/2009
Action: Monitoring Report - Semi-Annually

UNOCAL STATION #3810 (Continued) **S100947471**

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 09/08/2005
Action: Staff Letter - #20050908

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 04/30/2002
Action: Staff Letter - #20020430

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 03/04/2004
Action: Staff Letter - #20040304

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 11/01/2005
Action: Staff Letter - #20051101

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 01/03/2008
Action: Staff Letter - #20080103

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 10/17/2006
Action: Staff Letter - #20061017

Global Id: T0608100591
Action Type: RESPONSE
Date: 09/21/2011
Action: Well Destruction Report

Global Id: T0608100591
Action Type: REMEDIATION
Date: 03/21/1997
Action: Pump & Treat (P&T) Groundwater

Global Id: T0608100591
Action Type: REMEDIATION
Date: 03/21/1997
Action: Excavation

Global Id: T0608100591
Action Type: REMEDIATION
Date: 10/12/1994
Action: Excavation

Global Id: T0608100591
Action Type: REMEDIATION
Date: 12/10/1990
Action: Pump & Treat (P&T) Groundwater

UNOCAL STATION #3810 (Continued) **S100947471**

SAN MATEO CO. LUST:
- Region: SAN MATEO
- Facility ID: 330075
- Facility Status: 9- Case Closed
- Global ID: T0608100591
- APN Number: 055082010
- Case Type: SAN MATEO CO. LUST
- EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
- Region: CORTESE
- Facility County Code: 41
- Reg By: LTNKA
- Reg Id: 41-0619

B15 **7-ELEVEN INC. STORE #14339** **CA San Mateo Co. BI** **S116348348**
West **895 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.166 mi.
878 ft. **Site 8 of 8 in cluster B**

Relative:
Higher

Actual:
14 ft.

San Mateo Co. BI:
- Region: SAN MATEO
- Facility ID: FA0055301
- Prog Element Code: STORES MV FUELS OR WASTE ONLY
- Record Id: PR0076256
- Description: STORES MV FUELS OR WASTE ONLY
- Facility Status: ACTIVE

C16 **PAW PRINTS** **CA San Mateo Co. BI** **S113756239**
West **3166 BAY** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.200 mi.
1058 ft. **Site 1 of 2 in cluster C**

Relative:
Higher

Actual:
14 ft.

San Mateo Co. BI:
- Region: SAN MATEO
- Facility ID: FA0055481
- Prog Element Code: GENERATES <27 GAL/YEAR
- Record Id: PR0076506
- Description: GENERATES <27 GAL/YEAR
- Facility Status: ACTIVE

- Region: SAN MATEO
- Facility ID: FA0016563
- Prog Element Code: BUSINESS PLAN - GENERAL
- Record Id: PR0068278
- Description: BUSINESS PLAN - GENERAL
- Facility Status: INACTIVE

- Region: SAN MATEO
- Facility ID: FA0016563
- Prog Element Code: GENERATES <27 GAL/YEAR
- Record Id: PR0024927
- Description: GENERATES <27 GAL/YEAR

PAW PRINTS (Continued) **S113756239**

Facility Status: INACTIVE

D17 **JOES FIAT SERVICE** **CA San Mateo Co. BI** **S113756417**
West **819 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.214 mi.
1129 ft. **Site 1 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0017448
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0011110
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0017448
Prog Element Code:	LESS THAN 500 TIRES
Record Id:	PR0045609
Description:	LESS THAN 500 TIRES
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0017448
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0003880
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status:	INACTIVE

D18 **FIFTH AVENUE SERVICE** **CA FID UST** **S101623069**
WSW **795 005TH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.218 mi.
1149 ft. **Site 2 of 18 in cluster D**

Relative:
Higher

Actual:
19 ft.

CA FID UST:

Facility ID:	41004883
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4150000000
Mail To:	Not reported
Mailing Address:	795 005TH AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	REDWOOD CITY 94063
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

D19 **AT&T REDWOOD CITY** **CA SWEEPS UST** **S101593666**
WSW **3175 SPRING ST** **CA FID UST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 3 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

SWEEPS UST:

Status:	Active
Comp Number:	330120
Number:	1
Board Of Equalization:	Not reported
Referral Date:	04-07-94
Action Date:	04-07-94
Created Date:	06-08-90
Owner Tank Id:	RDCYCA-U1
SWRCB Tank Id:	41-000-330120-000001
Tank Status:	A
Capacity:	8000
Active Date:	04-07-94
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	1

CA FID UST:

Facility ID:	41000082
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	3175 SPRING ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	REDWOOD CITY 94063
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

D20 **AT&T CORP. - P3066** **CA LUST** **S102424709**
WSW **3175 SPRING** **CA San Mateo Co. BI** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 4 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	330016
How Discovered:	OM
Leak Cause:	Unknown
Leak Source:	Unknown
Date Leak Confirmed:	Not reported
Oversight Program:	LUST

AT&T CORP. - P3066 (Continued) **S102424709**

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

San Mateo Co. BI:

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0037975
Description: GENERATES <27 GAL/YEAR
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: STORES HAZ MAT <31999GAL,239999LB, 111999FT^3
Record Id: PR0023425
Description: STORES HAZ MAT <31999GAL,223999LB, 111999CF
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: 2354
Record Id: PR0066752
Description: TANK STOR CAP => 10,000 AND <100,000 GAL
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0022433
Description: UNDERGROUND TANK - GENERAL
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: 2354
Record Id: PR0049064
Description: TANK STOR CAP => 10,000 AND <100,000 GAL
Facility Status: INACTIVE

D21 **AT&T COMUNICATIONS** **CA AST** **A100340131**
WSW **3175 SPRING** **N/A**
1/8-1/4 **REDWOOD CITY, CA**
0.227 mi.
1201 ft. **Site 5 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

AST:
Certified Unified Program Agencies: San Mateo
Owner: Not reported
Total Gallons: 10,000
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported

AT&T COMUNICATIONS (Continued) **A100340131**

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

D22 **AT&T CORP - P3066** **CA AST** **A100417339**
WSW **3175 SPRING ST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 6 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	AT&T Corp.
Total Gallons:	Not reported
CERSID:	10072018
Facility ID:	41-000-TMP433
Business Name:	AT&T Corporation
Phone:	(925) 998-5876
Fax:	925-973-0584
Mailing Address:	308 S. Akard Street, Room 1708
Mailing Address City:	Dallas
Mailing Address State:	TX
Mailing Address Zip Code:	75202
Operator Name:	AT&T Corp.
Operator Phone:	(925) 998-5876
Owner Phone:	214-464-2626
Owner Mail Address:	308 S. Akard Street, Room 1708
Owner State:	TX
Owner Zip Code:	75202
Owner Country:	United States
Property Owner Name:	AT&T Corp.
Property Owner Phone:	(214) 464-2626
Property Owner Mailing Address:	308 S. Akard St., Room 1708
Property Owner City:	Dallas
Property Owner Stat :	TX
Property Owner Zip Code:	75202
Property Owner Country:	United States
EPAID:	CAT080019888

D23 **AT&T CORP. - P3066** **CA UST** **U004262449**
WSW **3175 SPRING ST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 7 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

UST:
Facility ID: 41-000-TMP433
Permitting Agency: San Mateo County Environmental Health
Latitude: 37.480267
Longitude: -122.200031

D24 **REDWOOD CITY 4A** **CA HIST UST** **U001594597**
WSW **3175 SPRING ST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 8 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

HIST UST:
File Number: 0002BB78
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002BB78.pdf
Region: STATE
Facility ID: 00000044161
Facility Type: Other
Other Type: COMMUNICATIONS
Contact Name: DISTRICT MGR.-BLDG. & R.E.
Telephone: 4154606500
Owner Name: A.T.&T. COMMUNICATIONS, INC.,
Owner Address: 5925 W. LAS POSITAS BLVD.
Owner City,St,Zip: PLEASANTON, CA 94566
Total Tanks: 0003

Tank Num: 001
Container Num: B56263X-1
Year Installed: 1974
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 1/4
Leak Detection: None

Tank Num: 002
Container Num: B56263X-2
Year Installed: 1969
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 1/4
Leak Detection: None

Tank Num: 003
Container Num: B56263X-3
Year Installed: 1974
Tank Capacity: 00000275
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 14
Leak Detection: Visual

REDWOOD CITY 4A (Continued) **U001594597**

Click here for Geo Tracker PDF:

D25 **AT&T** **CA LUST** **S104973116**
WSW **3175 SPRING STREET** **CA HIST CORTESE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 9 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

LUST:

Region:	STATE
Global Id:	T0608100044
Latitude:	37.4810777583172
Longitude:	-122.200163304806
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/05/2000
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0045
LOC Case Number:	330016
File Location:	Local Agency Warehouse
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100044
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100044
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

Status History:

Global Id:	T0608100044
Status:	Completed - Case Closed
Status Date:	09/05/2000

Global Id:	T0608100044
Status:	Open - Case Begin Date
Status Date:	04/04/1988

Regulatory Activities:

AT&T (Continued) **S104973116**

Global Id: T0608100044
Action Type: Other
Date: 01/31/1989
Action: Leak Discovery

Global Id: T0608100044
Action Type: ENFORCEMENT
Date: 01/15/1989
Action: Notice of Responsibility - #1

Global Id: T0608100044
Action Type: Other
Date: 04/04/1988
Action: Leak Reported

Global Id: T0608100044
Action Type: REMEDIATION
Date: 09/20/1989
Action: Excavation

Global Id: T0608100044
Action Type: REMEDIATION
Date: 09/20/1989
Action: Excavation

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330016
Facility Status: 9- Case Closed
Global ID: T0608100044
APN Number: Not reported
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0045

D26 **PACIFIC BELL** **RCRA-SQG** **1000251156**
WSW **3175 SPRING STREET** **FINDS** **CAT080019888**
1/8-1/4 **REDWOOD CITY, CA 94063** **ECHO**
0.227 mi.
1201 ft. **Site 10 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: PACIFIC BELL
Facility address: 3175 SPRING STREET
REDWOOD CITY, CA 94063
EPA ID: CAT080019888
Mailing address: 2 NORTH SECOND ST ROOM 1125
SAN JOSE, CA 95113
Contact: Not reported
Contact address: Not reported

PACIFIC BELL (Continued) **1000251156**

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: THE PACIFIC TELEPHONE AND TELEGRAPH CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
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
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: 01/19/1981
Site name: PACIFIC BELL
Classification: Large Quantity Generator

Violation Status: No violations found

PACIFIC BELL (Continued) **1000251156**

FINDS:

Registry ID: 110055873210

Environmental Interest/Information System
STATE MASTER

Registry ID: 110002948785

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: 1000251156
Registry ID: 110002948785
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002948785

D27 **5TH AVE SERVICE** **CA LUST** **S101325110**
WSW **795 5TH** **CA SWEEPS UST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063** **CA HIST CORTESE**
0.234 mi.
1233 ft. **Site 11 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

LUST:
Region: STATE
Global Id: T0608100216
Latitude: 37.4799187927235
Longitude: -122.199913859367
Case Type: LUST Cleanup Site
Status: Open - Eligible for Closure
Status Date: 01/23/2017
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0227
LOC Case Number: 330039
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: The following is extracted from the Site Conceptual Model dated December 28, 2009, and was augmented/clarified by San Mateo County LOP staff. The LOP does not take responsibility for the accuracy of the statements referenced in reports. 1970 - Chevron reportedly the station operator. 1970 through 1978 - Texaco reportedly operated the station. January 1984 - Moshe Shatzki (Morry Zaski) subleases the site from the Alliance Oil Company and operates the service station. January 1984 - Redwood City Fire Department (RCFD), responded to gasoline odor complaints from businesses surrounding the site and

5TH AVE SERVICE (Continued) **S101325110**

informed station owner a possible leak of gasoline occurred. The RCFD required testing to determine the integrity of the USTs and piping. February 1984 - tested USTs and piping. Four of the six product supply lines were found to be leaking (exact location not specified). Approximately 1,260 gallons of fuel reportedly released, but no documentation in file substantiating. The lines were replaced, however, odor complaints continued. RCFD found evidence of possible gasoline contamination offsite prompting the RCFD to request the installation of monitoring wells. September 1984 - Morry Zaski purchases property and remains station operator. April 1985 - United Soil Engineering installed groundwater monitoring wells MW1 and MW2 (originally named P1 and P2). 1989 - periodic groundwater monitoring commenced. The report on 2001 UST removal speculated the October 1989 Loma Prieta earthquake caused leakage from product piping connections resulting in the measured increase in free product thickness (up to 3 inches). LOP staff referenced a November 1989 pump failure that may explain the finding. April 1990 - Soil Tech Engineering drilled Borings B-1 through B3 and converted B3 to MW-3 (originally referred to as well STW-3). May and June 1990 - USTs tested tight and were reportedly relined. Approximately 5 tons of soil disposed offsite. An automatic product recovery skimmer operated in MW1 and MW2 for 6 weeks. April 1991 - RWQCB issued Cleanup and Abatement Order 91-045 naming Mr. Morry Zaski as the responsible party (RP). July 1991 - LOP named Alliance Petroleum, Victor Colombini, George Farnum, and Dale Bunyard as additional RPs. December 1992 - analyzed a NAPL sample. Results indicated it was 96% gasoline. February - ETIC drilled Borings B1 through B12 and converted three of the borings to MW-4 through MW-6. NAPL reported in B2, B3, B4, B10 and B11. July 1994 - ETIC performed slug and 10 hour pumping tests. November 1994 - ETIC installed soil vapor extraction well SVE1 and air sparge well AS1 and performed a brief SVE and AS test. January 1995 - ETIC installed wells MW7 and MW8 on the downgradient AT&T property. February 1995 - ETIC installed wells MW9 and MW10. April 1995 - ETIC prepared a feasibility study. August 1995 - ETIC installed MW-11 and seven onsite soil vapor extraction wells (V2 through V8). September 1995 - ETIC installed wells MW12 through MW17. February 1996 - ETIC installed wells MW18 and MW19. August 1996 - ETIC drilled grab groundwater Borings EB1 through EB9. September 1996 - ETIC performed a well receptor survey. Identified several residential wells near the site. January 1997 - ETIC installed monitoring wells MW20, MW21 and MW22. May 1997 - ETIC performed risk assessment, fate and transport and remedial method evaluation. June 1998 - ETIC submitted a corrective action plan. May 1999 - installed wells ORC1 through ORC4, EX1 and EX2. July 1999 - installed oxygen releasing compound (ORC) socks in wells ORC1 through ORC4. January 2000 - installed wells ORC5 through ORC7 in front of the residences with residential wells. April 2000 - ETIC drilled groundwater sampling Borings GP-1 through GP-13 andGP-15 through GP-20. May 2000 - ETIC destroyed MW1 and MW2 and installed wells MW1A and MW2A, EX3, MW8P, MW15A, MW15AP. June 2000 - ETIC performed a pumping test on MW1A, MW2A and EX3. July 2000 - ETIC performed a pumping test on MW8, MW15A and ORC2. October 2000 - submitted a remedial action plan for pump and treat remediation. April 2001 - destroyed MW2A, EX3, V2, V5 and AS1 by pressure grouting and replaced 3 single-walled steel USTs (two 10,000-gallon and one 6,000-gallon) with two new double walled 20,000 gallon USTs. Approximately 1,087 tons of hydrocarbon-impacted soil and 480,000 gallons of contaminated groundwater were removed and disposed offsite

5TH AVE SERVICE (Continued) **S101325110**

during 2001. October 2002 - installed monitoring well MW23 on Fourth Avenue. February 2003 - GET performed a subsurface utility survey. A geophysical survey and limited soil excavation was not successful at locating well MW7 (LOP consider abandoned). December 2003 - installed monitoring well MW24. August 2004 - drilled out vapor extraction well V2. 2007 - K&A Petroleum became responsible for site corrective action. Mr. Zaski's UST Cleanup Fund rights were eventually assigned to K&A Petroleum. December 2007 - Pangea began groundwater monitoring at the site. February 2008 - Pangea installed MW25 and destroyed wells MW5, MW8P, MW9, MW10, MW11, MW14, MW15A, MW15AP, MW20, ORC1, ORC2, ORC5 and ORC7. August 2009 - Pangea drilled soil boring SB-1 and two adjacent Hydropunch-type borings for discrete-depth groundwater sampling up to 43 to 48 ft bgs. Details of the offsite investigation are presented in the Offsite Investigation Report dated October 29, 2009. May and June 2011 - Pangea installed sub-slab vapor probes SS1 and SS2 and collects vapor samples. February 2013 - Pangea collected sub-slab vapor samples from SS1 and SS2. April 2012 - Pangea drilled Borings B13 through B-15. February 2013 - Pangea installed well MW26. June 2016 - Pangea drilled Borings SB-2 and SB-3.
Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100216
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100216
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

Status History:

Global Id:	T0608100216
Status:	Open - Case Begin Date
Status Date:	01/12/1984

Global Id:	T0608100216
Status:	Open - Eligible for Closure
Status Date:	01/23/2017

Global Id:	T0608100216
Status:	Open - Site Assessment
Status Date:	04/20/2009

Global Id:	T0608100216
Status:	Open - Verification Monitoring

5TH AVE SERVICE (Continued) **S101325110**

Status Date: 12/31/2002

Regulatory Activities:

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 05/17/2005
Action: Verbal Enforcement

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/18/1991
Action: Notice of Responsibility - #19910718A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/15/1991
Action: Clean-up and Abatement Order - #19910415

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/27/1998
Action: Complaint - #19980127

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/13/2006
Action: Staff Letter - #20060913

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/21/2006
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/27/2007
Action: Notice of Responsibility - #20071127B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/10/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 06/27/2003
Action: Staff Letter - #20030627A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 05/29/2009
Action: Notice of Violation - #20090529B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/03/1991
Action: Notice of Responsibility - #19910903A

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/03/1991
Action: Notice of Responsibility - #19910903B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/29/1991
Action: Notice of Violation - #19910829

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/23/1991
Action: Notice of Violation - #19910723

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/17/1990
Action: Notice to Comply - #19900117

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/25/2006
Action: Staff Letter - #20060925A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/25/2006
Action: Staff Letter - #20060925B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/15/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/08/2003
Action: Staff Letter - #20030908

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/11/2005
Action: Staff Letter - #20051011

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/23/2006
Action: Staff Letter - #20060823

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/25/2004
Action: Staff Letter - #20040325

Global Id: T0608100216
Action Type: ENFORCEMENT

5TH AVE SERVICE (Continued) **S101325110**

Date: 10/04/2004
Action: Staff Letter - #20041004

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/26/2004
Action: Staff Letter - #20040826

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/21/2007
Action: Staff Letter - #20071121

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/10/1989
Action: Notice of Reimbursement - #19891010

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/07/2006
Action: Staff Letter - #20060207

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/13/2006
Action: Staff Letter - #20060213

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/18/2006
Action: Notice of Violation - #20060718

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/23/2012
Action: Technical Correspondence / Assistance / Other - #20120423

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/16/2012
Action: Staff Letter - #20120416

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/11/2012
Action: Staff Letter - #20120411

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/11/2012
Action: Technical Correspondence / Assistance / Other - #20120411

Global Id: T0608100216
Action Type: RESPONSE
Date: 10/27/2008
Action: Electronic Reporting Submittal Due

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/14/2010
Action: Correspondence

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2008
Action: Technical Correspondence / Assistance / Other - #20081201

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/27/2008
Action: Staff Letter - #20081027B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/27/2008
Action: Staff Letter - #20081027A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/22/2011
Action: Staff Letter - #20110322

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 06/27/2011
Action: Staff Letter - #20110627

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/26/1984
Action: Notice to Comply - #19841226

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2015
Action: Email Correspondence - #20151201

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/31/2007
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/28/2003
Action: Other Report / Document

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/30/2003
Action: Well Installation Report

Global Id: T0608100216
Action Type: RESPONSE

5TH AVE SERVICE (Continued) **S101325110**

Date: 05/17/2004
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 06/15/2005
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/15/2006
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/15/2007
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2003
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2004
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2005
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2006
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2007
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/24/2004
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 03/15/2004
Action: Other Report / Document

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2004
Action: Other Report / Document

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: RESPONSE
Date: 06/06/2005
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 03/23/2006
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/12/2006
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE
Date: 03/13/2006
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE
Date: 04/20/2004
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/12/2006
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/12/2006
Action: Other Report / Document

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/07/2007
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE
Date: 04/28/2012
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 10/05/2004
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/31/2008
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE

5TH AVE SERVICE (Continued) **S101325110**

Date: 11/30/2008
Action: NPDES / WDR Reports

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/30/2003
Action: Other Report / Document

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/05/1992
Action: Notice of Responsibility - #19921105

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/31/2008
Action: Staff Letter - #20080331

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/02/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/08/2013
Action: Technical Correspondence / Assistance / Other - #20130108

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/28/2016
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/30/2014
Action: Staff Letter - #20140130

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/31/2013
Action: Technical Correspondence / Assistance / Other - #20130131

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/07/2007
Action: Staff Letter - #20071107

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/25/2003
Action: Staff Letter - #20030825

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/28/2005
Action: Staff Letter - #20050228

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/08/2007
Action: Staff Letter - #20071108

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/15/2004
Action: Notice of Violation - #20040315

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/06/2007
Action: Notice of Violation - #20070706

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/19/2008
Action: Notice of Violation - #20080319

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/26/2007
Action: Staff Letter - #20071126B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/27/2007
Action: Staff Letter - #20071127A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/01/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/22/1995
Action: Staff Letter - #19951122

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/01/1991
Action: Staff Letter - #19910801

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 05/29/2009
Action: Staff Letter - #20090525A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/27/2009
Action: Technical Correspondence / Assistance / Other - #20090727

Global Id: T0608100216
Action Type: ENFORCEMENT

5TH AVE SERVICE (Continued) **S101325110**

Date: 04/21/2005
Action: Staff Letter - #20050421

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/02/2006
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/18/2008
Action: Staff Letter - #20080418

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/09/2013
Action: Staff Letter - #20130109

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/18/2006
Action: Well Destruction Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/15/2010
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: Other
Date: 01/12/1984
Action: Leak Reported

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/12/2006
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/24/2004
Action: Well Destruction Report

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/02/2009
Action: Staff Letter - #20091202

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2009
Action: Staff Letter - #20091201

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/06/2010
Action: Technical Correspondence / Assistance / Other - #20101206

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/03/2013
Action: Technical Correspondence / Assistance / Other - #20130103

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/25/2013
Action: Technical Correspondence / Assistance / Other - #20130225

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2016
Action: Notice of Violation - #20161201

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/14/2010
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/14/2010
Action: Conceptual Site Model

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/09/2016
Action: Staff Letter - #20160309

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/23/2017
Action: Staff Letter - #20170123

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/13/2010
Action: Staff Letter - #20100713

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/26/2007
Action: Staff Letter - #20071126A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 06/27/2003
Action: Staff Letter - #20030627B

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/04/2006
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE

5TH AVE SERVICE (Continued) **S101325110**

Date: 08/28/2007
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/06/2006
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/28/2007
Action: Other Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 03/28/2008
Action: Well Destruction Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/05/2008
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: RESPONSE
Date: 04/25/2012
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/12/1989
Action: Warning Letter - #19891012

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/18/1991
Action: Notice of Responsibility - #19910718B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/27/1998
Action: Rescission of Enforcement Action - #19980127

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/06/2007
Action: Staff Letter - #20070706

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/20/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/02/2004
Action: Staff Letter - #20040402

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/27/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 06/22/1998
Action: Rescission of Enforcement Action - #19980622

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/29/2005
Action: Staff Letter - #20051229

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 05/23/2005
Action: Staff Letter - #20050523

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/21/2007
Action: Staff Letter - #20070821

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/15/2007
Action: Staff Letter - #20071115

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/28/2007
Action: Notice of Responsibility - #20071128

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/10/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/15/2004
Action: Staff Letter - #20040315

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/30/2003
Action: Staff Letter - #20031230

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/12/2006
Action: Staff Letter - #20060112

Global Id: T0608100216
Action Type: RESPONSE

5TH AVE SERVICE (Continued) **S101325110**

Date: 12/15/2010
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 10/27/2008
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/30/2009
Action: Conceptual Site Model

Global Id: T0608100216
Action Type: RESPONSE
Date: 06/06/2005
Action: Other Report / Document

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/30/2003
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/28/2003
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/15/2012
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/15/2013
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 04/28/2012
Action: Site Assessment Report

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2015
Action: Staff Letter - #20151201

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/03/2009
Action: Staff Letter - #20090803

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/20/2013
Action: Technical Correspondence / Assistance / Other - #20130220

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: Other
Date: 02/01/1984
Action: Leak Discovery

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/11/2011
Action: Technical Correspondence / Assistance / Other - #20110711

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/07/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 10/29/2009
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/15/2008
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/15/2009
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/15/2015
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 01/29/2016
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/24/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/18/2004
Action: Notice of Violation - #20040318

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/24/2004
Action: Notice of Violation - #20040324

Global Id: T0608100216
Action Type: ENFORCEMENT

5TH AVE SERVICE (Continued) **S101325110**

Date: 07/18/2006
Action: Staff Letter - #20060718

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/30/2011
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/05/2015
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/02/2016
Action: Request for Closure - Regulator Responded

Global Id: T0608100216
Action Type: REMEDIATION
Date: 06/04/1990
Action: Excavation

Global Id: T0608100216
Action Type: REMEDIATION
Date: 07/01/1999
Action: Ex Situ Physical/Chemical Treatment (other than P&T, SVE, or Excavation)

Global Id: T0608100216
Action Type: REMEDIATION
Date: 05/04/1990
Action: Free Product Removal

Global Id: T0608100216
Action Type: REMEDIATION
Date: 04/25/2001
Action: Excavation

Global Id: T0608100216
Action Type: REMEDIATION
Date: 05/02/2001
Action: Pump & Treat (P&T) Groundwater

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330039
Facility Status: 8- Verification Monitoring Underway
Global ID: T0608100216
APN Number: 055086020
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

SWEEPS UST:
Status: Active

5TH AVE SERVICE (Continued) **S101325110**

Comp Number: 330115
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-13-94
Action Date: 04-13-94
Created Date: 10-13-88
Owner Tank Id: UNK
SWRCB Tank Id: 41-000-330115-000001
Tank Status: A
Capacity: 6000
Active Date: 04-13-94
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 3

Status: Active
Comp Number: 330115
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-13-94
Action Date: 04-13-94
Created Date: 10-13-88
Owner Tank Id: UNK
SWRCB Tank Id: 41-000-330115-000002
Tank Status: A
Capacity: 10000
Active Date: 04-13-94
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 330115
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-13-94
Action Date: 04-13-94
Created Date: 10-13-88
Owner Tank Id: UNK
SWRCB Tank Id: 41-000-330115-000003
Tank Status: A
Capacity: 10000
Active Date: 04-13-94
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0227

D28 **VALERO** **CA San Mateo Co. BI** **S113756361**
WSW **795 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1233 ft. **Site 12 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0057217
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0079391
Description:	GENERATES <27 GAL/YEAR
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0057217
Prog Element Code:	STORES MV FUELS OR WASTE ONLY
Record Id:	PR0079390
Description:	STORES MV FUELS OR WASTE ONLY
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0057217
Prog Element Code:	UNDERGROUND TANK - GENERAL
Record Id:	PR0079392
Description:	UNDERGROUND TANK - GENERAL
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0017350
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0044300
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0017350
Prog Element Code:	STORES MV FUELS OR WASTE ONLY
Record Id:	PR0024889
Description:	STORES MV FUELS OR WASTE ONLY
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0017350
Prog Element Code:	UNDERGROUND TANK - GENERAL
Record Id:	PR0022431
Description:	UNDERGROUND TANK - GENERAL
Facility Status:	INACTIVE

D29 **K & A PETROLEUM INC/ TRITON GASOLINE** **CA UST** **U004265019**
WSW **795 5TH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1233 ft. **Site 13 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

UST:

Facility ID:	Not reported
Permitting Agency:	San Mateo County Environmental Health
Latitude:	37.479855
Longitude:	-122.200035

D30 **FIFTH AVENUE SERVICE** **CA HIST UST** **U001594555**
WSW **795-FIFTH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1233 ft. **Site 14 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

HIST UST:

File Number:	0002C43B
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C43B.pdf
Region:	STATE
Facility ID:	00000017772
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MORRY ZASKI
Telephone:	4153661190
Owner Name:	VICTOR J. COROMBINI
Owner Address:	1224 SO. WINCHESTER BLVD.
Owner City,St,Zip:	SAN JOSE, CA 95128
Total Tanks:	0004
Tank Num:	001
Container Num:	2
Year Installed:	1975
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	002
Container Num:	1
Year Installed:	1975
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	003
Container Num:	3
Year Installed:	1975
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	004
Container Num:	4
Year Installed:	1955
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

D31 **5TH AVE SERVICE** **CA LUST** **U001594522**
WSW **795 5TH** **CA HIST UST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1233 ft. **Site 15 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Post remedial action monitoring
Case Number:	330039
How Discovered:	LT
Leak Cause:	Unknown
Leak Source:	Unknown
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:	12/31/2002

HIST UST:

File Number:	0002C0A1
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C0A1.pdf
Region:	STATE
Facility ID:	00000060687
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MORRY AZASKI
Telephone:	4153661190
Owner Name:	MORRY ZASKI
Owner Address:	795 5TH AVE
Owner City,St,Zip:	REDWOOD, CA 94063
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00010000

5TH AVE SERVICE (Continued) **U001594522**

Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

E32 **TRACE ANALYTICAL INC** **CA San Mateo Co. BI** **S106981579**
SSW **3517 EDISON** **N/A**
1/8-1/4 **MENLO PARK, CA 94025**
0.234 mi.
1233 ft. **Site 1 of 3 in cluster E**

Relative:
Higher

Actual:
24 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0022188
Prog Element Code:	STORES HAZ MAT <3,499GAL,27,999LB,13,999FT3
Record Id:	PR0023420
Description:	STORES HAZ MAT <3,499GAL,27,999LB,13,999CF
Facility Status:	INACTIVE
Region:	SAN MATEO
Facility ID:	FA0027951
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0045914
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE
Region:	SAN MATEO
Facility ID:	FA0045033
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0057558
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE
Region:	SAN MATEO
Facility ID:	FA0052120
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0072303
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE
Region:	SAN MATEO
Facility ID:	FA0052120
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0072302
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status:	INACTIVE

D33 **PORTABLE WATER SUPPLY** **CA San Mateo Co. BI** **S113756684**
WSW **3184 SPRING** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1234 ft. **Site 16 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0022227
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0023599
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

D34 **WELTER STENCIL & ENGRAVING** **CA San Mateo Co. BI** **S113755856**
WSW **793 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1237 ft. **Site 17 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0012787
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0011307
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

E35 **DIETER'S GERMAN CAR REPIAR** **CA San Mateo Co. BI** **S102268247**
SSW **3511 EDISON WAY** **CA HAZNET** **N/A**
1/8-1/4 **MENLO PARK, CA 94025**
0.237 mi.
1253 ft. **Site 2 of 3 in cluster E**

Relative:
Higher

Actual:
24 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0017622
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0023057
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017622
Prog Element Code: LESS THAN 500 TIRES
Record Id: PR0045422
Description: LESS THAN 500 TIRES
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017622
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0023058
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF
Facility Status: INACTIVE

HAZNET:
envid: S102268247

DIETER'S GERMAN CAR REPIAR (Continued) **S102268247**

Year:	2013
GEPAID:	CAL000160805
Contact:	LEWIS CAMPBELL
Telephone:	6503650432
Mailing Name:	Not reported
Mailing Address:	3511 EDISON WAY
Mailing City,St,Zip:	MENLO PARK, CA 940251815
Gen County:	San Mateo
TSD EPA ID:	CAT080012602
TSD County:	Solano
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.5004
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

E36 **JOHN ZENDER CONSULTING** **CA San Mateo Co. BI** **S106981720**
SSW **3507 EDISON** **N/A**
1/8-1/4 **MENLO PARK, CA 94025**
0.241 mi.
1274 ft. **Site 3 of 3 in cluster E**

Relative:
Higher

Actual:
24 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0023127
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0026385
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0052771
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0074531
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0052771
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0074436
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status:	INACTIVE

D37 **REMCO ENTERPRISES INC** **CA San Mateo Co. BI** **S113756377**
WSW **3160 SPRING** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.246 mi.
1298 ft. **Site 18 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0017379
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT

REMCO ENTERPRISES INC (Continued) **S113756377**

Record Id: PR0011064
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017379
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0003897
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

C38 **ICE OASIS** **CA San Mateo Co. BI** **S113757471**
West **3140 BAY** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.246 mi.
1300 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
14 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0026254
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0037888
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0026254
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0043332
Description: GENERATES <27 GAL/YEAR
Facility Status: INACTIVE

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39 **EDISON TECHNOLOGY PARK** **CA LUST** **S118504667**
SSW **3477-3522 EDISON WAY** **CA SLIC** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.261 mi.
1380 ft.

Relative:
Higher

Actual:
24 ft.

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 449093
Facility Status: 3B- Preliminary Assessment Underway
Global ID: T10000006237
APN Number: Not reported
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

SLIC:
Region: STATE
Facility Status: **Open - Site Assessment**
Status Date: 09/26/2014
Global Id: T10000006237
Lead Agency: SAN MATEO COUNTY LOP
Lead Agency Case Number: 449093
Latitude: 37.4771379
Longitude: -122.194453

EDISON TECHNOLOGY PARK (Continued) **S118504667**

Case Type:	Cleanup Program Site
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Other Insecticides / Pesticide / Fumigants / Herbicides, Copper, Lead, Total Petroleum Hydrocarbons (TPH)
Site History:	Soil borings were advanced onsite and results of soil and groundwater samples reported per boring permits. Soil reported to be impacted by TPHd, TPHmo, Dieldrin, OCPs, Phenols and Metals, especially high levels of Lead. Groundwater impacted by TPHd, TPHmo and PCE. Investigation was completed prior to site being transitioned to use for international school. Based on the results, the school will not be located at this site.

Click here to access the California GeoTracker records for this facility:

40
West
1/4-1/2
0.331 mi.
1747 ft.

Relative:
Higher

Actual:
15 ft.

GILLIS & LANE INC. **CA LUST S101303182**
830 2ND **CA HIST CORTESE N/A**
REDWOOD CITY, CA 94063

LUST:

Region:	STATE
Global Id:	T0608100234
Latitude:	37.481631
Longitude:	-122.201669
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/06/1999
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0246
LOC Case Number:	330010
File Location:	Local Agency Warehouse
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100234
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100234
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)

GILLIS & LANE INC. (Continued) **S101303182**

Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0608100234
Status: Completed - Case Closed
Status Date: 12/06/1999

Global Id: T0608100234
Status: Open - Case Begin Date
Status Date: 11/24/1986

Regulatory Activities:
Global Id: T0608100234
Action Type: Other
Date: 11/24/1986
Action: Leak Reported

Global Id: T0608100234
Action Type: ENFORCEMENT
Date: 09/28/1990
Action: Notice of Responsibility - #1

Global Id: T0608100234
Action Type: Other
Date: 12/19/1986
Action: Leak Discovery

Global Id: T0608100234
Action Type: REMEDIATION
Date: 06/18/1993
Action: Pump & Treat (P&T) Groundwater

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330010
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO

GILLIS & LANE INC. (Continued) **S101303182**

Facility ID: 330010
Facility Status: 9- Case Closed
Global ID: T0608100234
APN Number: 055081190 055081180
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0246

F41 **PIC** **CA LUST** **S104494089**
West **3004 SPRING** **CA HIST CORTESE** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.356 mi.
1879 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
17 ft.

LUST:
Region: STATE
Global Id: T0608100398
Latitude: 37.480742
Longitude: -122.202407
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 05/31/1996
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0418
LOC Case Number: 330032
File Location: Local Agency Warehouse
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100398
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100398
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

PIC (Continued) **S104494089**

Status History:
Global Id: T0608100398
Status: Completed - Case Closed
Status Date: 05/31/1996

Global Id: T0608100398
Status: Open - Case Begin Date
Status Date: 07/02/1987

Regulatory Activities:
Global Id: T0608100398
Action Type: Other
Date: 07/02/1987
Action: Leak Reported

Global Id: T0608100398
Action Type: Other
Date: 07/02/1987
Action: Leak Discovery

Global Id: T0608100398
Action Type: ENFORCEMENT
Date: 01/31/1989
Action: Notice of Responsibility - #1

Global Id: T0608100398
Action Type: REMEDIATION
Date: 12/15/1988
Action: Excavation

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330032
Facility Status: 9- Case Closed
Global ID: T0608100398
APN Number: 055084010
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0418

F42
West
1/4-1/2
0.356 mi.
1879 ft.

PIC
3004 SPRING
REDWOOD CITY, CA 94063
Site 2 of 2 in cluster F

CA LUST **S100178592**
CA AST **N/A**
CA Notify 65

Relative:
Higher

Actual:
17 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	330032
How Discovered:	OM
Leak Cause:	Unknown
Leak Source:	Unknown
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

AST:

Certified Unified Program Agencies:	Imperial
Owner:	DEPARTMENT OF PARKS AND REC.
Total Gallons:	3,000
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported

PIC (Continued) **S100178592**

Issue Date: Not reported
Incident Description: Not reported

G43 **KOBLICK SUPPLY** **CA LUST** **S103892840**
WNW **2950 BAY** **CA SWEEPS UST** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063** **CA HIST CORTESE**
0.379 mi.
2000 ft. **Site 1 of 4 in cluster G**

Relative:
Lower

Actual:
13 ft.

LUST:

Region:	STATE
Global Id:	T0608101035
Latitude:	37.4826
Longitude:	-122.20237
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/27/1990
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1126
LOC Case Number:	330038
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608101035
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608101035
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

Status History:

Global Id:	T0608101035
Status:	Completed - Case Closed
Status Date:	09/27/1990

Global Id:	T0608101035
Status:	Open - Case Begin Date
Status Date:	09/27/1990

KOBLICK SUPPLY (Continued) **S103892840**

Regulatory Activities:
Global Id: T0608101035
Action Type: ENFORCEMENT
Date: 09/27/1990
Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330038
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330038
Facility Status: 9- Case Closed
Global ID: T0608101035
APN Number: 054172050
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

SWEEPS UST:
Status: Not reported
Comp Number: 330137
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: 41-000-330137-000001
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 330137
Number: Not reported
Board Of Equalization: Not reported

KOBLICK SUPPLY (Continued) **S103892840**

Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	41-000-330137-000002
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1126

G44 **MR. HAUL** **CA SWF/LF** **S110326605**
West **867 SECOND AVENUE** **N/A**
1/4-1/2 **REDWOOD CITY, CA**
0.384 mi.
2025 ft. **Site 2 of 4 in cluster G**

Relative:
Higher

Actual:
14 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	41-AA-0181
Lat/Long:	37.48196 / -122.20109
Owner Name:	Gerritsen, Georgia
Owner Telephone:	4153440618
Owner Address:	Not reported
Owner Address2:	1229 Burlingame Ave, Apt 7
Owner City,St,Zip:	Burlingame, CA 94010
Operational Status:	Active
Operator:	Mr. Haul
Operator Phone:	4155937138
Operator Address:	Not reported
Operator Address2:	1383 Rosewood Avenue
Operator City,St,Zip:	San Carlos, CA
Permit Date:	09/27/1996
Permit Status:	Notification
Permitted Acreage:	Not reported
Activity:	Small Vol CDI Debris Proc. Operation
Regulation Status:	Notification
Landuse Name:	Not reported
GIS Source:	Map
Category:	Transfer/Processing
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	41-AA-0181
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported

MR. HAUL (Continued) **S110326605**

Permitted Throughput with Units: Not reported
Actual Throughput with Units: Not reported
Permitted Capacity with Units: Not reported
Remaining Capacity: Not reported
Remaining Capacity with Units: Not reported
Lat/Long: 37.48196 / -122.20109

G45 **PACIFIC BELL** **RCRA-SQG** **1000251284**
West **867 2ND AVENUE** **CA LUST** **CAT080021231**
1/4-1/2 **REDWOOD CITY, CA 94063** **CA HIST UST**
0.384 mi. **FINDS**
2025 ft. **Site 3 of 4 in cluster G** **ECHO**
CA HIST CORTESE

Relative:
Higher

Actual:
14 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: PACIFIC BELL
Facility address: 867 2ND AVENUE
REDWOOD CITY, CA 94063
EPA ID: CAT080021231
Mailing address: 2 NORTH SECOND ST ROOM 1125
SAN JOSE, CA 95113
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: THE PACIFIC TELEPHONE AND TELEGRAPH CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
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
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

PACIFIC BELL (Continued) **1000251284**

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: 01/19/1981
- Site name: PACIFIC BELL
- Classification: Large Quantity Generator

Violation Status: No violations found

LUST:
- Region: STATE
- Global Id: T0608100379
- Latitude: 37.482027
- Longitude: -122.200016
- Case Type: LUST Cleanup Site
- Status: Completed - Case Closed
- Status Date: 03/22/2001
- Lead Agency: SAN MATEO COUNTY LOP
- Case Worker: DGM
- Local Agency: SAN MATEO COUNTY LOP
- RB Case Number: 41-0398
- LOC Case Number: 330011
- File Location: Local Agency
- Potential Media Affect: Other Groundwater (uses other than drinking water)
- Potential Contaminants of Concern: Gasoline
- Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
- Global Id: T0608100379
- Contact Type: Local Agency Caseworker
- Contact Name: DENO MILANO
- Organization Name: SAN MATEO COUNTY LOP
- Address: 2000 ALAMEDA DE LAS PULGAS
- City: SAN MATEO
- Email: dmilano@smcgov.org
- Phone Number: 6503726292

- Global Id: T0608100379
- Contact Type: Regional Board Caseworker
- Contact Name: Regional Water Board

PACIFIC BELL (Continued) **1000251284**

Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0608100379
Status: Completed - Case Closed
Status Date: 03/22/2001

Global Id: T0608100379
Status: Open - Case Begin Date
Status Date: 12/01/1986

Regulatory Activities:
Global Id: T0608100379
Action Type: Other
Date: 12/01/1986
Action: Leak Reported

Global Id: T0608100379
Action Type: ENFORCEMENT
Date: 06/08/1990
Action: Notice of Responsibility - #1

Global Id: T0608100379
Action Type: Other
Date: 12/01/1986
Action: Leak Discovery

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330011
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330011
Facility Status: 9- Case Closed
Global ID: T0608100379
APN Number: 054172180

PACIFIC BELL (Continued) **1000251284**

Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000016342
Facility Type: Other
Other Type: PHONE CO
Contact Name: E.J. KOEHLER
Telephone: 4155426758
Owner Name: PACIFIC BELL
Owner Address: 370 THIRD STREET
Owner City,St,Zip: SAN FRANCISCO, CA 94107
Total Tanks: 0001

Tank Num: 001
Container Num: G-81-10K
Year Installed: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: None

FINDS:

Registry ID: 110002949837

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.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000251284
Registry ID: 110002949837
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002949837

HIST CORTESE:

PACIFIC BELL (Continued) **1000251284**

Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0398

H46 **MENLO PARK FIRE DISTRICT** **CA San Mateo Co. BI** **S103658093**
SSE **4101 FAIR OAKS** **CA HIST CORTESE** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.388 mi.
2050 ft. **Site 1 of 2 in cluster H**

Relative:
Higher

Actual:
26 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0024993
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0074289
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0024993
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0031874
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-1091

H47 **MENLO PARK FIRE DIST #5** **CA LUST** **S103879301**
SSE **4101 FAIR OAKS** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.389 mi.
2052 ft. **Site 2 of 2 in cluster H**

Relative:
Higher

Actual:
27 ft.

LUST:
Region: STATE
Global Id: T0608101001
Latitude: 37.4808
Longitude: -122.2092
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/12/1998
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-1091
LOC Case Number: 330155
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Not reported
Site History: Not reported

MENLO PARK FIRE DIST #5 (Continued) **S103879301**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608101001
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608101001
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

Status History:

Global Id:	T0608101001
Status:	Completed - Case Closed
Status Date:	06/12/1998

Global Id:	T0608101001
Status:	Open - Case Begin Date
Status Date:	04/09/1998

Regulatory Activities:

Global Id:	T0608101001
Action Type:	ENFORCEMENT
Date:	04/24/1998
Action:	Notice of Responsibility - #1

Global Id:	T0608101001
Action Type:	Other
Date:	04/09/1998
Action:	Leak Reported

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	330155
How Discovered:	OM
Leak Cause:	Unknown
Leak Source:	Unknown
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

MENLO PARK FIRE DIST #5 (Continued) **S103879301**

Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330155
Facility Status: 9- Case Closed
Global ID: T0608101001
APN Number: 060133130
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

48
ESE
1/4-1/2
0.392 mi.
2068 ft.

FORMER GAS STATION
955 MARSH ROAD
REDWOOD CITY, CA 92257

CA Notify 65 **S100178996**
N/A

Relative:
Higher

Actual:
24 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

49
NW
1/4-1/2
0.398 mi.
2099 ft.

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION
1228 DOUGLAS AVE
REDWOOD CITY, CA 94063

RCRA-SQG **1000225598**
CA LUST **CAD009129073**
CA SLIC
FINDS
ECHO
CA EMI
CA HIST CORTESE
NY MANIFEST

Relative:
Lower

Actual:
10 ft.

RCRA-SQG:
Date form received by agency: 07/23/2008
Facility name: AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION
Facility address: 1228 DOUGLAS AVE
REDWOOD CITY, CA 94063
EPA ID: CAD009129073
Contact: LOUIS B GILMORE
Contact address: 1228 DOUGLAS AVE
REDWOOD CITY, CA 94063
Contact country: US
Contact telephone: 650-367-2258
Contact email: LOU_GILMORE@AMPEX.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

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: STANFORD UNIVERSITY
Owner/operator address: 2755 SAND HILL RD STE 100
MENLO PARK, CA 94025
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 09/27/2005
Owner/Op end date: Not reported

Owner/operator name: AMPEX DATA SYSTEMS CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1947
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: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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: AMPEX CORP
Classification: Small Quantity Generator

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Date form received by agency: 02/28/1996
Site name: AMPEX CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 03/03/1992
Site name: AMPEX CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 08/15/1980
Site name: AMPEX CORP
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/25/1986
Date achieved compliance: 03/07/1986
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/07/1986
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 - General
Date violation determined: 03/22/1985
Date achieved compliance: 03/07/1986
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

Evaluation Action Summary:
Evaluation date: 02/25/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/07/1986
Evaluation lead agency: State

Evaluation date: 03/22/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/07/1986
Evaluation lead agency: State Contractor/Grantee

LUST:
Region: STATE
Global Id: T0608101042

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Latitude:	37.4850065
Longitude:	-122.2014889
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/31/1995
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	UUU
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1134
LOC Case Number:	339001
File Location:	Not reported
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	* Solvents
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608101042
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608101042
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

Status History:

Global Id:	T0608101042
Status:	Completed - Case Closed
Status Date:	12/31/1995

Global Id:	T0608101042
Status:	Open - Case Begin Date
Status Date:	10/18/1995

Regulatory Activities:

Global Id:	T0608101042
Action Type:	Other
Date:	10/18/1995
Action:	Leak Discovery

Global Id:	T0608101042
Action Type:	Other
Date:	10/18/1995
Action:	Leak Reported

Global Id:	T0608101042

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Action Type: Other
Date: 10/18/1995
Action: Leak Stopped

LUST REG 2:
Region: 2
Facility Id: 41-0691
Facility Status: Case Closed
Case Number: 330013
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

Region: 2
Facility Id: 41-1134
Facility Status: Case Closed
Case Number: 339001
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

SLIC:
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 03/03/2017
Global Id: T0608100657
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: 330013
Latitude: 37.4850065
Longitude: -122.2014889
Case Type: Cleanup Program Site
Case Worker: RL
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0691
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: * Solvents
Site History: The site is currently under investigation in light of the proposed use of the site as Stanford’s Redwood City campus.

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Click here to access the California GeoTracker records for this facility:

FINDS:

Registry ID: 110064296694

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: 110022302202

Environmental Interest/Information System
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000225598
Registry ID:	110064296694
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110064296694

EMI:

Year:	1987
County Code:	41
Air Basin:	SF
Facility ID:	291
Air District Name:	BA
SIC Code:	3679
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:	11
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	3
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:	41
Air Basin:	SF
Facility ID:	8142
Air District Name:	BA

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

SIC Code:	3671
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:	12
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-0691

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1134

NY MANIFEST:

Country:	USA
EPA ID:	CAD009129073
Facility Status:	Not reported
Location Address 1:	401 BROADWAY
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	REDWOOD CITY
Location State:	CA
Location Zip:	94063
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	CAD009129073
Mailing Name:	AMPEX
Mailing Contact:	AMPEX
Mailing Address 1:	401 BROADWAY
Mailing Address 2:	Not reported
Mailing City:	REDWOOD CITY
Mailing State:	CA
Mailing Zip:	94063
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	4153672258

NY MANIFEST:

Document ID:	NYB4164597
Manifest Status:	C
seq:	Not reported
Year:	1994
Trans1 State ID:	10742PNY
Trans2 State ID:	Not reported

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Generator Ship Date:	07/12/1994
Trans1 Recv Date:	07/12/1994
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/27/1994
Part A Recv Date:	/ /
Part B Recv Date:	08/05/1994
Generator EPA ID:	CAD009129073
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported
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:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00001
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

Document ID:	NYA3199645
Manifest Status:	K
seq:	Not reported
Year:	1986
Trans1 State ID:	68008
Trans2 State ID:	X17593NY
Generator Ship Date:	09/08/1986
Trans1 Recv Date:	09/08/1986
Trans2 Recv Date:	09/17/1986
TSD Site Recv Date:	09/26/1986
Part A Recv Date:	11/13/1986
Part B Recv Date:	10/02/1986
Generator EPA ID:	CAD009129073
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

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:	D002 - NON-LISTED CORROSIVE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00010
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100

Document ID:	NYB4164606
Manifest Status:	K
seq:	Not reported
Year:	1994
Trans1 State ID:	11592PNY
Trans2 State ID:	Not reported
Generator Ship Date:	05/06/1994
Trans1 Recv Date:	05/06/1994
Trans2 Recv Date:	/ /
TSD Site Recv Date:	05/19/1994
Part A Recv Date:	/ /
Part B Recv Date:	06/07/1994
Generator EPA ID:	CAD009129073
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported
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:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00001

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00001
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

G50 **MEWES PROPERTY** **CA LUST** **S104568283**
WNW **2906 BAY** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.417 mi.
2203 ft. **Site 4 of 4 in cluster G**

Relative:
Lower

Actual:
13 ft.

LUST:

Region:	STATE
Global Id:	T0608123266
Latitude:	37.483155
Longitude:	-122.202953
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	03/20/2000
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-4020
LOC Case Number:	330182
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608123266
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608123266
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)

MEWES PROPERTY (Continued) **S104568283**

Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0608123266
Status: Completed - Case Closed
Status Date: 03/20/2000

Global Id: T0608123266
Status: Open - Case Begin Date
Status Date: 10/14/1999

Regulatory Activities:
Global Id: T0608123266
Action Type: ENFORCEMENT
Date: 11/02/1999
Action: Notice of Responsibility - #1

Global Id: T0608123266
Action Type: Other
Date: 10/14/1999
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330182
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330182
Facility Status: 9- Case Closed
Global ID: T0608123266
APN Number: Not reported
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

I51 **SEQUOIA MILL** **CA LUST** **S103892866**
NNW **2575 EAST BAYSHORE ROAD** **CA HIST CORTESE** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.421 mi.
2224 ft. **Site 1 of 2 in cluster I**

Relative:
Lower

Actual:
8 ft.

LUST:

Region:	STATE
Global Id:	T0608100682
Latitude:	37.487555
Longitude:	-122.199073
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/19/1994
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0719
LOC Case Number:	330063
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100682
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100682
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

Status History:

Global Id:	T0608100682
Status:	Completed - Case Closed
Status Date:	09/19/1994

Global Id:	T0608100682
Status:	Open - Case Begin Date
Status Date:	06/12/1989

Regulatory Activities:

Global Id:	T0608100682
Action Type:	Other
Date:	06/12/1989
Action:	Leak Reported

SEQUOIA MILL (Continued) **S103892866**

Global Id: T0608100682
Action Type: ENFORCEMENT
Date: 10/05/1990
Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330063
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0719

I52 **SEQUOIA MILL** **CA LUST** **U001594604**
NNW **2575 E BAYSHORE RD** **CA HIST UST** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.421 mi.
2224 ft. **Site 2 of 2 in cluster I**

Relative:
Lower

Actual:
8 ft.

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330063
Facility Status: 9- Case Closed
Global ID: T0608100682
APN Number: 054131050
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST UST:
File Number: 0002C26C
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C26C.pdf
Region: STATE
Facility ID: 00000008802
Facility Type: Other
Other Type: WOODWORKING
Contact Name: Not reported
Telephone: 4153654666
Owner Name: SEQUOIA MILL
Owner Address: 2575 E. BAYSHORE RD
Owner City,St,Zip: REDWOOD CITY, CA 94063

SEQUOIA MILL (Continued) **U001594604**

Total Tanks: 0001

Tank Num: 001
Container Num: #001
Year Installed: 1974
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 3/8
Leak Detection: Visual, Sensor Instrument, Pressure Test

Click here for Geo Tracker PDF:

J53 **DELUCA FOODS** **CA LUST S101438169**
West **832 BARRON** **CA HIST CORTESE N/A**
1/4-1/2 **REDWOOD CITY, CA 94061**
0.432 mi.
2283 ft. **Site 1 of 2 in cluster J**

Relative:
Higher

Actual:
15 ft.

LUST:
Region: STATE
Global Id: T0608100183
Latitude: 37.482107
Longitude: -122.203301
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/28/1999
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0192
LOC Case Number: 330088
File Location: Local Agency Warehouse
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100183
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100183
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

DELUCA FOODS (Continued) **S101438169**

Status History:
Global Id: T0608100183
Status: Completed - Case Closed
Status Date: 07/28/1999

Global Id: T0608100183
Status: Open - Case Begin Date
Status Date: 04/02/1990

Regulatory Activities:
Global Id: T0608100183
Action Type: Other
Date: 06/11/1990
Action: Leak Discovery

Global Id: T0608100183
Action Type: ENFORCEMENT
Date: 06/20/1991
Action: Notice of Responsibility - #1

Global Id: T0608100183
Action Type: Other
Date: 04/02/1990
Action: Leak Reported

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330088
Facility Status: 9- Case Closed
Global ID: T0608100183
APN Number: 054172100
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0192

J54 **R A DE LUCA** **CA LUST** **S104493944**
West **832 BARRON AVE** **CA SWEEPS UST** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.432 mi.
2283 ft. **Site 2 of 2 in cluster J**

Relative:
Higher

Actual:
15 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330088
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
Date Leak Confirmed: Not reported

R A DE LUCA (Continued) **S104493944**

Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 330019
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: 41-000-330019-000001
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 1

Status: Active
Comp Number: 330019
Number: 9
Board Of Equalization: Not reported
Referral Date: 11-03-93
Action Date: 11-03-93
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

K55 **DELUCCHI PROPERTY** **CA LUST** **S101308677**
ESE **995 MARSH** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.440 mi.
2321 ft. **Site 1 of 6 in cluster K**

Relative:
Higher

Actual:
23 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330050
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown

DELUCCHI PROPERTY (Continued) **S101308677**

Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 1/1/1965
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

K56 **DELUCCHI PROPERTY** **CA LUST S103893021**
ESE **995 MARSH ROAD** **CA HIST CORTESE N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.440 mi.
2321 ft. **Site 2 of 6 in cluster K**

Relative:
Higher

Actual:
23 ft.

LUST:
Region: STATE
Global Id: T0608100186
Latitude: 37.478489
Longitude: -122.186146
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/08/2003
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0195
LOC Case Number: 330050
File Location: Local Agency Warehouse
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100186
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100186
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

Status History:
Global Id: T0608100186
Status: Completed - Case Closed
Status Date: 04/08/2003

DELUCCHI PROPERTY (Continued) **S103893021**

Global Id: T0608100186
Status: Open - Case Begin Date
Status Date: 03/24/1989

Global Id: T0608100186
Status: Open - Site Assessment
Status Date: 03/24/1989

Regulatory Activities:
Global Id: T0608100186
Action Type: Other
Date: 03/27/1989
Action: Leak Discovery

Global Id: T0608100186
Action Type: ENFORCEMENT
Date: 03/24/1989
Action: Notice of Responsibility - #1

Global Id: T0608100186
Action Type: ENFORCEMENT
Date: 04/08/2003
Action: Closure/No Further Action Letter - #2

Global Id: T0608100186
Action Type: Other
Date: 03/27/1989
Action: Leak Reported

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330050
Facility Status: 9- Case Closed
Global ID: T0608100186
APN Number: 055215150
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0195

---

57 **MIDLAND PACIFIC CORP** **CA LUST** **S101308622**
NE **3536 HAVEN** **CA HIST CORTESE** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.447 mi.
2359 ft.

Relative:
Lower

Actual:
12 ft.

LUST:
Region: STATE
Global Id: T0608100330
Latitude: 37.486
Longitude: -122.1865

MIDLAND PACIFIC CORP (Continued) **S101308622**

Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/24/1995
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0345
LOC Case Number:	440031
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100330
Contact Type:	Local Agency Caseworker
Contact Name:	MARC MULLANEY
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	mmullaney@smcgov.org
Phone Number:	6503726289

Global Id:	T0608100330
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

Status History:

Global Id:	T0608100330
Status:	Completed - Case Closed
Status Date:	10/24/1995

Global Id:	T0608100330
Status:	Open - Case Begin Date
Status Date:	08/08/1990

Regulatory Activities:

Global Id:	T0608100330
Action Type:	Other
Date:	08/08/1990
Action:	Leak Reported

Global Id:	T0608100330
Action Type:	Other
Date:	05/21/1992
Action:	Leak Discovery

Global Id:	T0608100330
Action Type:	ENFORCEMENT
Date:	10/10/1990

MIDLAND PACIFIC CORP (Continued) **S101308622**

Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 440031
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 440031
Facility Status: 9- Case Closed
Global ID: T0608100330
APN Number: 055122340
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0345

---

58 **SEARS MERCHANDISE GROUP** **CA LUST** **S104493985**
NW **1325 DOUGLAS** **CA HIST CORTESE** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.449 mi.
2371 ft.

Relative:
Lower

Actual:
9 ft.

LUST:
Region: STATE
Global Id: T0608100843
Latitude: 37.4868709
Longitude: -122.2058476
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/07/1995
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0915
LOC Case Number: 330131
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)

SEARS MERCHANDISE GROUP (Continued) **S104493985**

Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100843
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100843
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

Status History:
Global Id: T0608100843
Status: Completed - Case Closed
Status Date: 12/07/1995

Global Id: T0608100843
Status: Open - Case Begin Date
Status Date: 05/12/1995

Regulatory Activities:
Global Id: T0608100843
Action Type: Other
Date: 05/12/1995
Action: Leak Discovery

Global Id: T0608100843
Action Type: Other
Date: 05/12/1995
Action: Leak Reported

Global Id: T0608100843
Action Type: ENFORCEMENT
Date: 05/18/1995
Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330131
How Discovered: OM

SEARS MERCHANDISE GROUP (Continued) **S104493985**

Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330131
Facility Status: 9- Case Closed
Global ID: T0608100843
APN Number: 054133190
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0915

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59 **REDWOOD MOTOR COURT** **CA LUST** **S104973101**
ENE **3706 ROLISON ROAD** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.467 mi.
2467 ft.

Relative:
Lower

Actual:
13 ft.

LUST:
Region: STATE
Global Id: T0608114600
Latitude: 37.484315
Longitude: -122.185691
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/20/2012
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-4021
LOC Case Number: 330187
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Lead, Gasoline
Site History: Can be extracted from most recent report in Geotracker or at San Mateo County offices if submitted prior to 2005, San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report.

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608114600

REDWOOD MOTOR COURT (Continued) **S104973101**

Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608114600
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

Status History:
Global Id: T0608114600
Status: Completed - Case Closed
Status Date: 01/20/2012

Global Id: T0608114600
Status: Open - Case Begin Date
Status Date: 06/08/2000

Global Id: T0608114600
Status: Open - Site Assessment
Status Date: 06/08/2000

Regulatory Activities:
Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 08/04/2009
Action: Staff Letter - #20090804

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 08/31/2010
Action: Notice of Violation - #20100831

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 06/22/2009
Action: Staff Letter - #20090622

Global Id: T0608114600
Action Type: RESPONSE
Date: 12/31/2009
Action: Site Assessment Report

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 08/21/2008
Action: Notice of Violation - #20080821

REDWOOD MOTOR COURT (Continued) **S104973101**

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 01/28/2002
Action: Staff Letter - #20020128

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 08/13/2007
Action: Staff Letter - #20070813

Global Id: T0608114600
Action Type: Other
Date: 07/17/2000
Action: Leak Reported

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 07/31/2001
Action: Staff Letter - #20010731

Global Id: T0608114600
Action Type: RESPONSE
Date: 03/14/2002
Action: Other Report / Document

Global Id: T0608114600
Action Type: RESPONSE
Date: 12/12/2007
Action: Soil and Water Investigation Workplan

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 11/16/2010
Action: Notice of Violation - #20101116

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 06/07/2001
Action: Notice of Responsibility - #20010607

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 05/22/2008
Action: Notice of Violation - #20080522

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 12/13/2011
Action: File Review - Closure - #20111213

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 01/20/2012
Action: Closure/No Further Action Letter - #20120120

Global Id: T0608114600
Action Type: RESPONSE

REDWOOD MOTOR COURT (Continued) **S104973101**

Date: 11/27/2001
Action: Soil and Water Investigation Report

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Post remedial action monitoring
Case Number: 330187
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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: 1/1/1965

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330187
Facility Status: 9- Case Closed
Global ID: T0608114600
APN Number: 055161350
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

K60 **CHEVRON** **CA LUST** **S100622903**
ESE **3805 BOHANNON** **CA SWEEPS UST** **N/A**
1/4-1/2 **MENLO PARK, CA 94025** **CA San Mateo Co. BI**
0.469 mi. **CA HIST CORTESE**
2476 ft. **Site 3 of 6 in cluster K**

Relative:
Higher

Actual:
22 ft.

LUST:
Region: STATE
Global Id: T0608100997
Latitude: 37.4787563
Longitude: -122.1854144
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/15/2004
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: MM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-1086
LOC Case Number: 440052
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

CHEVRON (Continued) **S100622903**

Global Id: T0608100997
Contact Type: Local Agency Caseworker
Contact Name: MARC MULLANEY
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: mmullaney@smcgov.org
Phone Number: 6503726289

Global Id: T0608100997
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

Status History:
Global Id: T0608100997
Status: Completed - Case Closed
Status Date: 06/15/2004

Global Id: T0608100997
Status: Open - Case Begin Date
Status Date: 03/31/1998

Global Id: T0608100997
Status: Open - Site Assessment
Status Date: 03/31/1998

Global Id: T0608100997
Status: Open - Verification Monitoring
Status Date: 02/19/2004

Regulatory Activities:
Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 06/26/2001
Action: Staff Letter - #20010626

Global Id: T0608100997
Action Type: RESPONSE
Date: 05/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0608100997
Action Type: RESPONSE
Date: 11/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0608100997
Action Type: RESPONSE
Date: 05/15/2003
Action: Monitoring Report - Quarterly

CHEVRON (Continued) **S100622903**

Global Id: T0608100997
Action Type: RESPONSE
Date: 08/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0608100997
Action Type: RESPONSE
Date: 02/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0608100997
Action Type: RESPONSE
Date: 12/15/2003
Action: Other Report / Document

Global Id: T0608100997
Action Type: RESPONSE
Date: 02/15/2004
Action: Soil and Water Investigation Report

Global Id: T0608100997
Action Type: RESPONSE
Date: 08/30/2004
Action: Unknown

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 12/04/2002
Action: Staff Letter - #20021204

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 06/15/2004
Action: Closure/No Further Action Letter - #20040615

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 04/06/1998
Action: Notice of Responsibility - #1

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 04/14/2004
Action: Staff Letter - #20040414

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 10/02/2003
Action: Staff Letter - #20031002

Global Id: T0608100997
Action Type: Other
Date: 03/31/1998
Action: Leak Reported

CHEVRON (Continued) **S100622903**

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 440052
Facility Status: 9- Case Closed
Global ID: T0608100997
APN Number: 055251340, 055251280
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

SWEEPS UST:
Status: Active
Comp Number: 440019
Number: 1
Board Of Equalization: 44-025353
Referral Date: 01-28-94
Action Date: 01-28-94
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-440019-000001
Tank Status: A
Capacity: 10000
Active Date: 05-18-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: Active
Comp Number: 440019
Number: 1
Board Of Equalization: 44-025353
Referral Date: 01-28-94
Action Date: 01-28-94
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-440019-000002
Tank Status: A
Capacity: 10000
Active Date: 05-18-93
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 440019
Number: 1
Board Of Equalization: 44-025353
Referral Date: 01-28-94
Action Date: 01-28-94
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-440019-000003
Tank Status: A
Capacity: 10000
Active Date: 05-18-93

CHEVRON (Continued) **S100622903**

Tank Use: M.V. FUEL
STG: P
Content: PLUS UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 440019
Number: 1
Board Of Equalization: 44-025353
Referral Date: 01-28-94
Action Date: 01-28-94
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-440019-000004
Tank Status: A
Capacity: 10000
Active Date: 05-18-93
Tank Use: OIL
STG: W
Content: LEADED GASOL
Number Of Tanks: Not reported

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0014486
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0024903
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0014486
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0024904
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017570
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0028311
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017570
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0004102
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017570
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0025278
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

CHEVRON (Continued) **S100622903**

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-1086

K61 **CHEVRON 9-0754** **CA LUST** **S105030502**
ESE **3805 BOHANNON** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.473 mi.
2495 ft. **Site 4 of 6 in cluster K**

Relative:
Higher

Actual:
22 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 440052
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 1/1/1965
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: 2/19/2004

K62 **BOHANNON PARK** **CA LUST** **S104493817**
ESE **990 MARSH** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.474 mi.
2501 ft. **Site 5 of 6 in cluster K**

Relative:
Higher

Actual:
23 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 440034
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

K63 **DELTA AUTO REPAIR** **CA LUST** **S101324963**
ESE **990 MARSH** **CA San Mateo Co. BI** **N/A**
1/4-1/2 **MENLO PARK, CA 94025** **CA HIST CORTESE**
0.474 mi.
2501 ft. **Site 6 of 6 in cluster K**

Relative:
Higher

Actual:
23 ft.

LUST:

Region:	STATE
Global Id:	T0608100075
Latitude:	37.477756
Longitude:	-122.184454
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/10/1994
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0080
LOC Case Number:	440034
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100075
Contact Type:	Local Agency Caseworker
Contact Name:	MARC MULLANEY
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	mmullaney@smcgov.org
Phone Number:	6503726289

Global Id:	T0608100075
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

Status History:

Global Id:	T0608100075
Status:	Completed - Case Closed
Status Date:	02/10/1994

Global Id:	T0608100075
Status:	Open - Case Begin Date
Status Date:	07/25/1990

Regulatory Activities:

Global Id:	T0608100075
Action Type:	Other
Date:	07/25/1990
Action:	Leak Discovery

DELTA AUTO REPAIR (Continued) **S101324963**

Global Id: T0608100075
Action Type: ENFORCEMENT
Date: 06/11/1991
Action: Notice of Responsibility - #1

Global Id: T0608100075
Action Type: Other
Date: 07/25/1990
Action: Leak Reported

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 440034
Facility Status: 9- Case Closed
Global ID: T0608100075
APN Number: 055252070
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0001882
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0011480
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0001882
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0004162
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: INACTIVE

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0080

L64 **GENERAL CIRCUITS INC.** **SEMS-ARCHIVE** **1000214027**
NE **3549 J HAVEN AVENUE** **CORRACTS** **CAD074665704**
1/4-1/2 **MENLO PARK, CA 94025** **RCRA-TSDF**
0.482 mi. **RCRA-SQG**
2543 ft. **Site 1 of 3 in cluster L** **CA ENVIROSTOR**
FINDS
Relative: **ECHO**
Lower **CA HWP**

Actual: **12 ft.**

SEMS-ARCHIVE:
Site ID: 903283
EPA ID: CAD074665704
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

GENERAL CIRCUITS INC. (Continued) **1000214027**

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0903283
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13287621.00000
Person ID: 13003854.00000

Contact Sequence ID: 13293216.00000
Person ID: 13003858.00000

Contact Sequence ID: 13299074.00000
Person ID: 13004003.00000

Program Priority:
Description: RCRA Deferral - New Decision

CERCLIS-NFRAP Assessment History:
Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/23/96
Priority Level: Not reported

Action: DISCOVERY
Date Started: / /
Date Completed: 08/24/90
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 03/28/91
Priority Level: Deferred to RCRA (Subtitle C)

CORRACTS:

EPA ID: CAD074665704
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910328
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 09/01/1996
Facility name: GENERAL CIRCUITS INC.
Facility address: 3549 J HAVEN AVENUE
MENLO PARK, CA 94025
EPA ID: CAD074665704

GENERAL CIRCUITS INC. (Continued) **1000214027**

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: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: GENERAL CIRCUITS, INC.
Owner/operator address: 3549 J HAVEN AVENUE
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 364-7717
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: HAVEN ASSOCIATES
Owner/operator address: 100 HARBOR BLVD
BELMONT, CA 94002
Owner/operator country: Not reported
Owner/operator telephone: (415) 592-0933
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: 11/17/1980
Site name: GENERAL CIRCUITS INC.
Classification: Large Quantity Generator

GENERAL CIRCUITS INC. (Continued) **1000214027**

Corrective Action Summary:
Event date: 01/01/1990
Event: CA029ST

Event date: 03/28/1991
Event: CA074LO

Event date: 03/28/1991
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 03/28/1991
Event: CA049PA

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/01/1989
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/08/1989
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: Generators - General
Date violation determined: 05/01/1989
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 07/22/1992
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: Generators - General
Date violation determined: 05/01/1989
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 06/08/1989
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

GENERAL CIRCUITS INC. (Continued) **1000214027**

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/01/1989
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 10/02/1989
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: Generators - General
Date violation determined: 05/05/1987
Date achieved compliance: 07/22/1992
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: 05/05/1987
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/18/1987
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: Generators - General
Date violation determined: 04/12/1984
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/12/1984
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

GENERAL CIRCUITS INC. (Continued) **1000214027**

Evaluation Action Summary:
Evaluation date: 05/16/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/01/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/22/1992
Evaluation lead agency: State

Evaluation date: 09/02/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/05/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/22/1992
Evaluation lead agency: State

Evaluation date: 04/12/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/22/1992
Evaluation lead agency: State

ENVIROSTOR:
Facility ID: 80001670
Status: Refer: EPA
Status Date: 01/01/2008
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: US EPA
Lead Agency: S EP
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: 37.48725
Longitude: -122.1885
APN: 055130310
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED

GENERAL CIRCUITS INC. (Continued) **1000214027**

Potential Description: NONE SPECIFIED
Alias Name: 055130310
Alias Type: APN
Alias Name: CAD074665704
Alias Type: EPA Identification Number
Alias Name: 110000609805
Alias Type: EPA (FRS #)
Alias Name: 80001670
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: 03/28/1991
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

FINDS:

Registry ID: 110000609805

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: 1000214027
Registry ID: 110000609805
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110000609805

HWP:
EPA Id: CAD074665704
Cleanup Status: PROTECTIVE FILER
Latitude: 37.48596
Longitude: -122.1876
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported

GENERAL CIRCUITS INC. (Continued) **1000214027**

Supervisor: Not reported
Site Code: Not reported
Assembly District: 22
Senate District: 13
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:
EPA Id: CAD074665704
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKTRT1
Event Description: Protective Filer Status - PROTECTIVE FILER (APPROVED)
Actual Date: 11/07/1989

Alias:
EPA Id: CAD074665704
Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110000609805

M65 **CALTRANS DISTRICT 4** **RCRA-SQG 1000419501**
NW **2501 E BAYSHORE BLVD** **CA LUST CAD982028961**
1/4-1/2 **REDWOOD CITY, CA 94063** **FINDS**
0.488 mi. **ECHO**
2575 ft. **Site 1 of 3 in cluster M**

Relative:
Lower

Actual:
8 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: CALTRANS DISTRICT 4
Facility address: 2501 E BAYSHORE BLVD
REDWOOD CITY, CA 94063
EPA ID: CAD982028961
Mailing address: E BAYSHORE BLVD
REDWOOD CITY, CA 94063
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
Legal status: State
Owner/Operator Type: Operator

CALTRANS DISTRICT 4 (Continued) **1000419501**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CALIFORNIA DEPARTMENT OF TRANSPORTATION
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: State
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 339203
Facility Status: 9- Case Closed
Global ID: T0608197613
APN Number: 054131100
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

Region: SAN MATEO
Facility ID: 330147
Facility Status: 9- Case Closed
Global ID: T0608100923
APN Number: 054131100
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

FINDS:

Registry ID: 110002781945

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,

CALTRANS DISTRICT 4 (Continued) **1000419501**

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:	1000419501
Registry ID:	110002781945
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002781945

M66 **CALTRANS MAINTENANCE FACILITY** **CA LUST** **S103064831**
NW **2501 EAST BAYSHORE ROAD** **CA SLIC** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063** **CA HIST CORTESE**
0.488 mi.
2575 ft. **Site 2 of 3 in cluster M**

Relative:
Lower

Actual:
8 ft.

LUST:

Region:	STATE
Global Id:	T0608100923
Latitude:	37.487580045
Longitude:	-122.199651549
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/30/2006
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1009
LOC Case Number:	330147
File Location:	Local Agency Warehouse
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100923
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100923
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

CALTRANS MAINTENANCE FACILITY (Continued) **S103064831**

Status History:

Global Id:	T0608100923
Status:	Completed - Case Closed
Status Date:	01/30/2006
Global Id:	T0608100923
Status:	Open - Case Begin Date
Status Date:	06/05/1996
Global Id:	T0608100923
Status:	Open - Site Assessment
Status Date:	09/13/1996

Regulatory Activities:

Global Id:	T0608100923
Action Type:	Other
Date:	06/05/1996
Action:	Leak Discovery
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	12/17/1996
Action:	Notice of Responsibility - #1
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	01/30/2006
Action:	Closure/No Further Action Letter - #20060130
Global Id:	T0608100923
Action Type:	Other
Date:	09/13/1996
Action:	Leak Reported
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	03/12/2004
Action:	Staff Letter - #20040312
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	07/20/2004
Action:	Staff Letter - #20040720
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	11/10/2005
Action:	Staff Letter - #20051110
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	10/27/2005
Action:	Staff Letter - #20051027
Global Id:	T0608100923
Action Type:	RESPONSE

CALTRANS MAINTENANCE FACILITY (Continued) **S103064831**

Date: 11/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0608100923
Action Type: RESPONSE
Date: 08/31/2004
Action: Other Report / Document

Global Id: T0608100923
Action Type: RESPONSE
Date: 12/30/2005
Action: Other Report / Document

Global Id: T0608100923
Action Type: RESPONSE
Date: 01/31/2006
Action: Electronic Reporting Submittal Due

Global Id: T0608100923
Action Type: RESPONSE
Date: 01/31/2006
Action: Unknown

Global Id: T0608100923
Action Type: REMEDIATION
Date: 06/05/1996
Action: Pump & Treat (P&T) Groundwater

Global Id: T0608100923
Action Type: REMEDIATION
Date: 06/05/1996
Action: Excavation

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/27/2010
Global Id: T0608197613
Lead Agency: SAN MATEO COUNTY LOP
Lead Agency Case Number: 339203
Latitude: 37.487201
Longitude: -122.201029
Case Type: Cleanup Program Site
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: Alcohols, Other Insecticides / Pesticide / Fumigants / Herbicides
Site History: Extracted from GeoCon's December 2005 Revised Additional Site Investigation Report, San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report. The site is located at 5201 East Bayshore Road in Redwood City, California. The site is developed with an equipment repair building, Caltrans crew office, storage building and loading dock, and a vehicle wash rack. The wash

CALTRANS MAINTENANCE FACILITY (Continued) **S103064831**

rack is located in the northern corner of the Redwood City Caltrans facility. The maintenance yard is used to store and repair Caltrans vehicles. The maintenance facility is bounded by East Bayshore Boulevard to the south, a mobile home storage facility to the north, a commercial building to the east, and a paved lot to the west. The former Cargill Salt Ponds are located approximately 450 north of the Caltrans Redwood City Maintenance Yard. In 1996, a soil and groundwater investigation was conducted by Professional Service Industries, Inc. (PSI) in the immediate vicinity of the wash rack. The wash rack had not yet been constructed when PSI conducted their investigation. At that time, the purpose of the investigation was to evaluate the likelihood that workers excavating soil during the construction of the wash rack would come in contact with impacted soil and gnundwater. Three soil borings (RW1, RW3, and RW3) were advanced around the perimeter of the wash rack location as depicted on Figure 2, Sample Location Map, and soil and grab groundwater samples were collected for laboratory analysis. The soil and groundwater samples were analyzed for total recoverable petroleum hydrocarbon compounds (TRPH), total petroleum hydrocarbon compounds as gasoline (TPHg), as diesel (TPHd), polychlorinated biphenyls (PCBs), California Assessment Manual (CAM 17) metals, pesticides and herbicides, chlorinated herbicides, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), ethylene glycol, and pH. TRPH, TPHg, TPHd, PCBs, VOCs, and SVOCs were reported as non-detect in all soil and grab groundwater samples analyzed for these constituents. Analytical laboratory results indicated that dinoseb, a chlorinated herbicide, was detected at concentrations ranging from 0.02 to 0.04 milligrams per kilogram (mg/kg) in near surface soil samples collected from each soil boring location. Dinoseb was not detected above the laboratory reporting limit concentration in the grab groundwater sample collected from RW-3 (grab groundwater samples were not collected from soil borings RWI and RW2). The grab groundwater sample collected from RW3 was reported to contain ethylene glycol at a concentration of 30 milligrams per liter (mg/l); and cadmium and selenium at concentrations of 0.04 mg/l and 0.07 mg/l, respectively, both of which exceed State of California maximum contaminant levels (MCLs) established for drinking water. Based on the soil and groundwater sample results reported during the 1996 investigation, and available San Mateo County Department of Health Services (DHS) correspondence, the DHS required that additional investigation be conducted to show "the residual, onsite concentrations of the chemicals of concern have been adequately assessed and do not pose a risk to public health and the environment." Based on the comments received from the DHS, PSI prepared a workplan in early 2004 to conduct additional investigation in the immediate vicinity of the wash rack. The scope of services described in this report are based on information contained in the PSI workplan, subsequent DHS and Caltrans correspondence.

Click here to access the California GeoTracker records for this facility:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1009

M67 **CALTRANS-REDWOOD CITY** **CA LUST** **S103723165**
NW **2501 BAYSHORE** **CA San Mateo Co. BI** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.488 mi.
2575 ft. **Site 3 of 3 in cluster M**

Relative:
Lower

Actual:
8 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Pollution Characterization
Case Number:	330147
How Discovered:	Tank Closure
Leak Cause:	Unknown
Leak Source:	Unknown
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	9/13/1996
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0024291
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	LESS THAN 500 TIRES
Record Id:	PR0045654
Description:	LESS THAN 500 TIRES
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id:	PR0024290
Description:	STORES HAZ MAT <1,199GAL,9,999LB,4,799CF
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	2353
Record Id:	PR0066750
Description:	TANK STOR CAP =>1,320 & <10,000 GAL
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	2353
Record Id:	PR0034109
Description:	TANK STOR CAP =>1,320 & <10,000 GAL
Facility Status:	INACTIVE

CALTRANS-REDWOOD CITY (Continued) **S103723165**

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	UNDERGROUND TANK - GENERAL
Record Id:	PR0024289
Description:	UNDERGROUND TANK - GENERAL
Facility Status:	INACTIVE

68
SE
1/4-1/2
0.498 mi.
2630 ft.

MARSH ROAD DELI
763 MARSH
MENLO PARK, CA 94025

CA LUST **S102628214**
CA San Mateo Co. BI **N/A**
CA HIST CORTESE

Relative:
Higher

Actual:
27 ft.

LUST:

Region:	STATE
Global Id:	T0608100932
Latitude:	37.474397
Longitude:	-122.188432
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/21/2000
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1019
LOC Case Number:	440048
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100932
Contact Type:	Local Agency Caseworker
Contact Name:	MARC MULLANEY
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	mmullaney@smcgov.org
Phone Number:	6503726289

Global Id:	T0608100932
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

Status History:

Global Id:	T0608100932
Status:	Completed - Case Closed
Status Date:	04/21/2000

Global Id:	T0608100932

MARSH ROAD DELI (Continued) **S102628214**

Status: Open - Case Begin Date
Status Date: 05/02/1997

Regulatory Activities:
Global Id: T0608100932
Action Type: ENFORCEMENT
Date: 06/10/1997
Action: Notice of Responsibility - #1

Global Id: T0608100932
Action Type: Other
Date: 05/02/1997
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 440048
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 440048
Facility Status: 9- Case Closed
Global ID: T0608100932
APN Number: 060143370
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0037357
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0054224
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0022668
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0025215
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

MARSH ROAD DELI (Continued) **S102628214**

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-1019

L69
NE
1/2-1
0.523 mi.
2763 ft.

GENERAL CIRCUITS INC
3585 HAVEN AVENUE
MENLO PARK, CA 94025

Site 2 of 3 in cluster L

CA ENVIROSTOR **1000214038**
CA HIST UST **N/A**
CA San Mateo Co. BI
CA HWP

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:
Facility ID: 80001497
Status: Inactive - Needs Evaluation
Status Date: 06/29/2009
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Julie Pettijohn
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.48660
Longitude: -122.1859
APN: 055130240
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 055130240
Alias Type: APN
Alias Name: CAD982462335
Alias Type: EPA Identification Number
Alias Name: 80001497
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: 03/08/1991
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

GENERAL CIRCUITS INC (Continued) **1000214038**

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: 0002BECC
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002BECC.pdf
Region: STATE
Facility ID: 00000000648
Facility Type: Other
Other Type: CIRCUIT MFC.
Contact Name: BOB GRAY
Telephone: 4153647717
Owner Name: GENERAL CIRCUITS, INCORPORATED
Owner Address: 3585 HAVEN AVENUE
Owner City,St,Zip: MENLO PARK, CA 94025
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1982
Tank Capacity: 00000115
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 3
Leak Detection: Visual

Click here for Geo Tracker PDF:

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0022969
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0025929
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0022969
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0025930
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0027450
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0043624
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0027450
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0043623

GENERAL CIRCUITS INC (Continued) **1000214038**

Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

HWP:
EPA Id: CAD982462335
Cleanup Status: KNOWN GENERATORS
Latitude: 37.48605
Longitude: -122.1864
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 22
Senate District: 13
Public Information Officer: Not reported
Public Information Officer: Not reported

L70 **GENERAL CIRCUITS INC** **SEMS-ARCHIVE** **1000214026**
NE **3585 HAVEN AVENUE** **CORRACTS** **CAD982462335**
1/2-1 **MENLO PARK, CA 94025** **RCRA-SQG**
0.523 mi. **CA HAZNET**
2763 ft. **Site 3 of 3 in cluster L**

Relative:
Lower

Actual:
11 ft.

SEMS-ARCHIVE:
Site ID: 903257
EPA ID: CAD982462335
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0903257
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13287086.00000
Person ID: 13003854.00000

Contact Sequence ID: 13292681.00000
Person ID: 13003858.00000

Contact Sequence ID: 13298539.00000
Person ID: 13004003.00000

Program Priority:
Description: RCRA Deferral Audit

Description: RCRA Deferral - New Decision

Description: RCRA Deferral - Further Superfund Assessment

CERCLIS-NFRAP Assessment History:
Action: PRELIMINARY ASSESSMENT

GENERAL CIRCUITS INC (Continued) **1000214026**

Date Started: / /
Date Completed: 03/08/91
Priority Level: Deferred to RCRA (Subtitle C)

Action: DISCOVERY
Date Started: / /
Date Completed: 10/18/90
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/23/96
Priority Level: Not reported

CORRACTS:

EPA ID: CAD982462335
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910308
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: GENERAL CIRCUITS INC
Facility address: 3585 HAVEN AVENUE
MENLO PARK, CA 94025
EPA ID: CAD982462335
Mailing address: 3601 HAVEN AVENUE
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
Legal status: Private

GENERAL CIRCUITS INC (Continued) **1000214026**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: GENERAL CIRCUITS INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
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: 01/09/1989
Site name: GENERAL CIRCUITS INC
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 03/08/1991
Event: CA049PA

Event date: 03/08/1991
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 03/08/1991
Event: CA074LO

Violation Status: No violations found

HAZNET:
envid: 1000214026
Year: 1993
GEPAID: CAD982462335
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported

GENERAL CIRCUITS INC (Continued) **1000214026**

Mailing Address: 3601 HAVEN AVENUE
Mailing City,St,Zip: MENLO PARK, CA 940250000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Land Fill
Tons: 1
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Mateo

N71 **KLIKLOK CO. (BUILDING #4)** **CA ENVIROSTOR S101482216**
West **2661 SPRING** **CA HIST CORTESE N/A**
1/2-1 **REDWOOD CITY, CA 90000**
0.684 mi.
3610 ft. **Site 1 of 2 in cluster N**

Relative:
Higher

Actual:
16 ft.

ENVIROSTOR:
Facility ID: 41340063
Status: Inactive - Needs Evaluation
Status Date: 10/25/2005
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: < 1
NPL: NO
Regulatory Agencies: SMBRP, SAN MATEO COUNTY
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.48264
Longitude: -122.2080
APN: 054161130
Past Use: METAL PLATING - CHROME, METAL PLATING - OTHER
Potential COC: Aluminum Cadmium and compounds Chromium III Copper and compounds Cyanide (free Nickel
Confirmed COC: Aluminum Cadmium and compounds Chromium III Copper and compounds Cyanide (free Nickel
Potential Description: OTH, SOIL
Alias Name: SUNSET PLATING INC
Alias Type: Alternate Name
Alias Name: 054161130
Alias Type: APN
Alias Name: 41340063
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery

KLIKLOK CO. (BUILDING #4) (Continued) **S101482216**

Completed Date: 01/15/1981
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 11/04/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/20/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/22/2002
Comments: Site screening completed. Preliminary endangerment assessment required.

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 CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: CALSI
Reg Id: 41340063

N72 **UNKNOWN** **CA Notify 65** **S100179087**
WNW **860 HURLINGAMES** **N/A**
1/2-1 **REDWOOD CITY, CA 92257**
0.685 mi.
3618 ft. **Site 2 of 2 in cluster N**

Relative:
Higher

Actual:
14 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

73
WNW
1/2-1
0.745 mi.
3935 ft.

PETERSEN PRECISION ENGINEERING, LLC
611 BROADWAY STREET
REDWOOD CITY, CA 94063

CA ENVIROSTOR **S118757206**
N/A

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:

Facility ID:	60001134
Status:	No Action Required
Status Date:	06/24/2010
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Assembly:	22
Senate:	13
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	37.48570
Longitude:	-122.2080
APN:	054-050-050, 054-050-160
Past Use:	MACHINE SHOP
Potential COC:	Under Investigation Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	30022-NO 30027-NO 31001-NO
Potential Description:	OTH, SOIL
Alias Name:	054-050-050
Alias Type:	APN
Alias Name:	054-050-160
Alias Type:	APN
Alias Name:	60001134
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	07/15/2009
Comments:	Mailed out certified letter on July 15, 2009.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/24/2010
Comments:	Site Screening final & signed. Groundwater from upgradient contains TCE & PCE. No data pointing subject site as source of contamination. Potential source is unknown upgradient.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	09/14/2009
Comments:	Ampex Corporation respondence of the info request dated Aug. 11, 2009.

PETERSEN PRECISION ENGINEERING, LLC (Continued) **S118757206**

Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	09/22/2009
Comments:	Petersen Precision Engineering respondence of info request dated Aug. 10, 2009.
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

74
ENE
1/2-1
0.868 mi.
4584 ft.

SEIBERT, J., MACHINE CORP **CA ENVIROSTOR** **S101482217**
119 INDEPENDENCE DR. **CA San Mateo Co. BI** **N/A**
MENLO PARK, CA 94025

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:

Facility ID:	41350016
Status:	Refer: Other Agency
Status Date:	03/31/1995
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:	37.48393
Longitude:	-122.1777
APN:	055236180
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	055236180
Alias Type:	APN
Alias Name:	41350016
Alias Type:	Envirostor ID Number

Completed Info:

SEIBERT, J., MACHINE CORP (Continued) **S101482217**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 08/01/1980
Comments: FACILITY IDENTIFIED INACTIVE SITE I.D.'D IN INITIAL RESEARCH

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/01/1988
Comments: SITE SCREENING DONE NEED MORE INFO

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

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0024825
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0030764
Description: GENERATES <27 GAL/YEAR
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0024825
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0030763
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

O75 **COORS WEST** **CA LUST** **S100178861**
WNW **890 BROADWAY** **CA Notify 65** **N/A**
1/2-1 **REDWOOD CITY, CA 94063**
0.892 mi.
4711 ft. **Site 1 of 2 in cluster O**

Relative:
Lower

Actual:
12 ft.

LUST:
Region: STATE
Global Id: T0608100270
Latitude: 37.485947
Longitude: -122.209245
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/03/1995
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0284
LOC Case Number: 330031
File Location: Local Agency Warehouse

COORS WEST (Continued) **S100178861**

Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100270
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100270
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

Status History:
Global Id: T0608100270
Status: Completed - Case Closed
Status Date: 07/03/1995

Global Id: T0608100270
Status: Open - Case Begin Date
Status Date: 12/20/1988

Regulatory Activities:
Global Id: T0608100270
Action Type: Other
Date: 12/20/1988
Action: Leak Reported

Global Id: T0608100270
Action Type: ENFORCEMENT
Date: 12/20/1988
Action: Notice of Responsibility - #1

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330031
Facility Status: 9- Case Closed
Global ID: T0608100270
APN Number: 054040270
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

COORS WEST (Continued) **S100178861**

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

O76 **TYDEMAN MACHINE WORKS** **CA ENVIROSTOR** **S118756934**
WNW **BROADWAY AND CHARTER** **N/A**
1/2-1 **REDWOOD CITY, CA 94063**
0.927 mi.
4895 ft. **Site 2 of 2 in cluster O**

Relative:
Lower

Actual:
13 ft.

ENVIROSTOR:
Facility ID: 41340062
Status: No Action Required
Status Date: 12/22/2005
Site Code: 201571
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.48
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Assembly: 22
Senate: 13
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.48695
Longitude: -122.2111
APN: 054-023-110
Past Use: MACHINE SHOP
Potential COC: TPH-MOTOR OIL
Confirmed COC: TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: HELLER HELICOPTERS
Alias Type: Alternate Name
Alias Name: 054-023-110
Alias Type: APN
Alias Name: 201571
Alias Type: Project Code (Site Code)
Alias Name: 41340062
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/13/1981
Comments: FACILITY IDENTIFIED ACTIVE SITE ID'DON DRIVEBY DHS, DURING A DRIVE/BY, OBSERVED SOIL STAINING & UNSAFE DRUMS STORAGE AREA FACILITY

TYDEMAN MACHINE WORKS (Continued) **S118756934**

DRIVE-BY EVIDENCE OF WASTE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 01/01/1989
Comments: PRELIM ASSESS DONE NFA: BASED ON AVAILABLE INFORMATION

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/08/1987
Comments: SITE SCREENING DONE OBSERVED NUMEROUS 55 GAL DRUMS, LACK OF VEGITATION AND OIL ON GROUND

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 08/30/2002
Comments: Site screening completed. Preliminary endangerment assessment required.

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

77
WNW
1/2-1
0.934 mi.
4930 ft.

STAR TOOL & ENGINEERING CO INC
860 CHARTER
REDWOOD CITY, CA 94063

CA ENVIROSTOR **S113756409**
CA SLIC **N/A**
CA VCP
CA San Mateo Co. BI

Relative:
Lower

Actual:
13 ft.

ENVIROSTOR:
Facility ID: 60002245
Status: Active
Status Date: 09/28/2015
Site Code: 204277
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.4
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Craig Sanchez
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Assembly: , 24
Senate: , 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party

STAR TOOL & ENGINEERING CO INC (Continued) **S113756409**

Latitude: 37.48472
Longitude: -122.2119
APN: 054-010-140, 054-081-010
Past Use: UNKNOWN
Potential COC: Under Investigation Benzene Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride
Confirmed COC: Under Investigation
Potential Description: IA, OTH, SOIL, SV, UE
Alias Name: 054-010-140
Alias Type: APN
Alias Name: 054-081-010
Alias Type: APN
Alias Name: 204277
Alias Type: Project Code (Site Code)
Alias Name: 60002245
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/28/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 09/06/2016
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Future Due Date: 2017
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Preliminary Endangerment Assessment Report
Schedule Due Date: 04/15/2017
Schedule Revised Date: Not reported

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 06/02/2016
Global Id: T10000006424
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.4845390879181
Longitude: -122.211878076057
Case Type: Cleanup Program Site
Case Worker: JGU
Local Agency: SAN MATEO 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: Dichloroethene (DCE), Trichloroethylene (TCE), Vinyl chloride, Benzene

STAR TOOL & ENGINEERING CO INC (Continued) **S113756409**

Site History: Phase II investigation identified chlorinated VOCs and benzene in groundwater. The source is unkown. TCE was detected in subslab and subsurface soil vapor samples at 220 a%g/m3 and 2,600 a%g/m3, respectively. the site is currenly used for display of classic automobiles.

Click here to access the California GeoTracker records for this facility:

VCP:

Facility ID:	60002245
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.4
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Craig Sanchez
Supervisor:	Jose Salcedo
Division Branch:	Northern California Schools & Santa Susana
Site Code:	204277
Assembly:	, 24
Senate:	, 13
Special Programs Code:	Not reported
Status:	Active
Status Date:	09/28/2015
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.48472 / -122.2119
APN:	054-010-140, 054-081-010
Past Use:	UNKNOWN
Potential COC:	31001, 30003, 30022, 30024, 30025, 30026, 30027, 30028
Confirmed COC:	31001
Potential Description:	IA, OTH, SOIL, SV, UE
Alias Name:	054-010-140
Alias Type:	APN
Alias Name:	054-081-010
Alias Type:	APN
Alias Name:	204277
Alias Type:	Project Code (Site Code)
Alias Name:	60002245
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	06/28/2016
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	09/06/2016
Comments:	Not reported

STAR TOOL & ENGINEERING CO INC (Continued) **S113756409**

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Future Due Date: 2017
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Preliminary Endangerment Assessment Report
Schedule Due Date: 04/15/2017
Schedule Revised Date: Not reported

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0017433
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0011103
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017433
Prog Element Code: RECYCLER
Record Id: PR0037777
Description: RECYCLER
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017433
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0024357
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF
Facility Status: INACTIVE

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78 **UNKNOWN** **CA Notify 65** **S100178957**
SW **197 FIFTH AVENUE** **N/A**
1/2-1 **REDWOOD CITY, CA 92257**
0.953 mi.
5030 ft.

Relative:
Higher

Actual:
38 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

79
WSW
1/2-1
0.991 mi.
5233 ft.

COORS WEST
2700 MIDDLEFIELD ROAD
REDWOOD CITY, CA 92257

CA Notify 65

S100179570
N/A

Relative:
Higher

Actual:
28 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

Count: 7 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MENLO PARK	1003878514	BROWNING-FERRIS INDS	END OF MARSH RD	94025	SEMS-ARCHIVE
MENLO PARK	S100538945	BROWNING-FERRIS INDUSTRIES	END OF MARSH ROAD, EAST OF HIG	94025	CA ENVIROSTOR
MENLO PARK	S113186755	ANTON MENLO	3605- 3639 HAVEN AVE		CA LUST
MENLO PARK	S103472755	HUETTIG & SCHROMM	3700 HAVEN	94025	CA LUST
MENLO PARK	1015732804	MENLO PARK SAN DIST TRMT PLT	1700 MARSH RD EXTN 1	94025	SEMS-ARCHIVE, RCRA NonGen / NL
REDWOOD CITY	S109149555	SEQUOIA ALTERNATIVE SCHOOL	435, 455, 461 5TH AVENUE AND 4	94063	CA ENVIROSTOR, CA SCH
REDWOOD CITY	1003878892	PG&E GAS PLANT REDWOOD CITY	E MARSHALL WASHINGTON BROADWAY	94063	SEMS-ARCHIVE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 04/07/2017
Next Scheduled EDR Contact: 07/17/2017
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: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/31/2017
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: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/25/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

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: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

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 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: 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 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 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

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

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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/12/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 57
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/16/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

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: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/02/2017
Next Scheduled EDR Contact: 07/03/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 01/13/2017
Date Data Arrived at EDR: 01/17/2017
Date Made Active in Reports: 05/31/2017
Number of Days to Update: 134
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/14/2017
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: 09/30/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 12/31/2016
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 54

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

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: 09/30/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 03/09/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
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

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 105

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

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: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 05/19/2017
Next Scheduled EDR Contact: 08/28/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
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: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/03/2017
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: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
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: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
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: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
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: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
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: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/06/2017
Next Scheduled EDR Contact: 07/17/2017
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: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

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: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
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: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 03/07/2017
Next Scheduled EDR Contact: 07/10/2017
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: 03/07/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 06/02/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
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: 04/04/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 35

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 04/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
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: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 64
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 42
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
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: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
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: 01/23/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 118

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/07/2017
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: 02/14/2017
Date Data Arrived at EDR: 02/17/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 97

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/11/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 04/26/2017
Number of Days to Update: 13
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/13/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Varies

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: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/15/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 107
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
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: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 87
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 70
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/03/2017
Next Scheduled EDR Contact: 07/03/2017
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: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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 board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas 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 Historic Dry 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:

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: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 31

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 37

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 94

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

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: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/23/2017
Date Data Arrived at EDR: 02/24/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 77

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/17/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/26/2017
Number of Days to Update: 65

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/24/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 73

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

FRESNO COUNTY:

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: 04/06/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 40

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/20/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 57

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 36

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 77

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

KINGS COUNTY:

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: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2017
Date Data Arrived at EDR: 01/20/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 41

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

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: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 66
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Date Data Arrived at EDR: 04/18/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 14
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/17/2017
Date Data Arrived at EDR: 01/18/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 112
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Semi-Annually

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: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Date Data Arrived at EDR: 01/13/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 110

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

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: 03/03/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 76

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 54

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 96

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/11/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 85
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 1
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 98
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

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: 11/08/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 105

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

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: 12/09/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

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: 10/05/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/10/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

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: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/28/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 62
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/21/2017
Date Data Arrived at EDR: 03/23/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 47
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 02/21/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 91
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 33
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 14
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 89
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

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

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/10/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 75

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 47

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 03/01/2017
Date Data Arrived at EDR: 03/30/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 54

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 01/24/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 114

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List

Cupa facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 113

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

TULARE COUNTY:

CUPA Facility List
Cupa program facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/25/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 34

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

VENTURA COUNTY:

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: 12/27/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 103

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

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: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 89

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2017
Date Data Arrived at EDR: 03/15/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/15/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
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: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 01/03/2017
Number of Days to Update: 96
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
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: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
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 & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TAFT COMMUNITY SCHOOL
903 TENTH AVENUE
REDWOOD CITY, CA 94063

TARGET PROPERTY COORDINATES

Latitude (North):	37.481008 - 37° 28' 51.63''
Longitude (West):	122.194425 - 122° 11' 39.93''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	571225.2
UTM Y (Meters):	4148334.5
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640620 PALO ALTO, 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 principal 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).

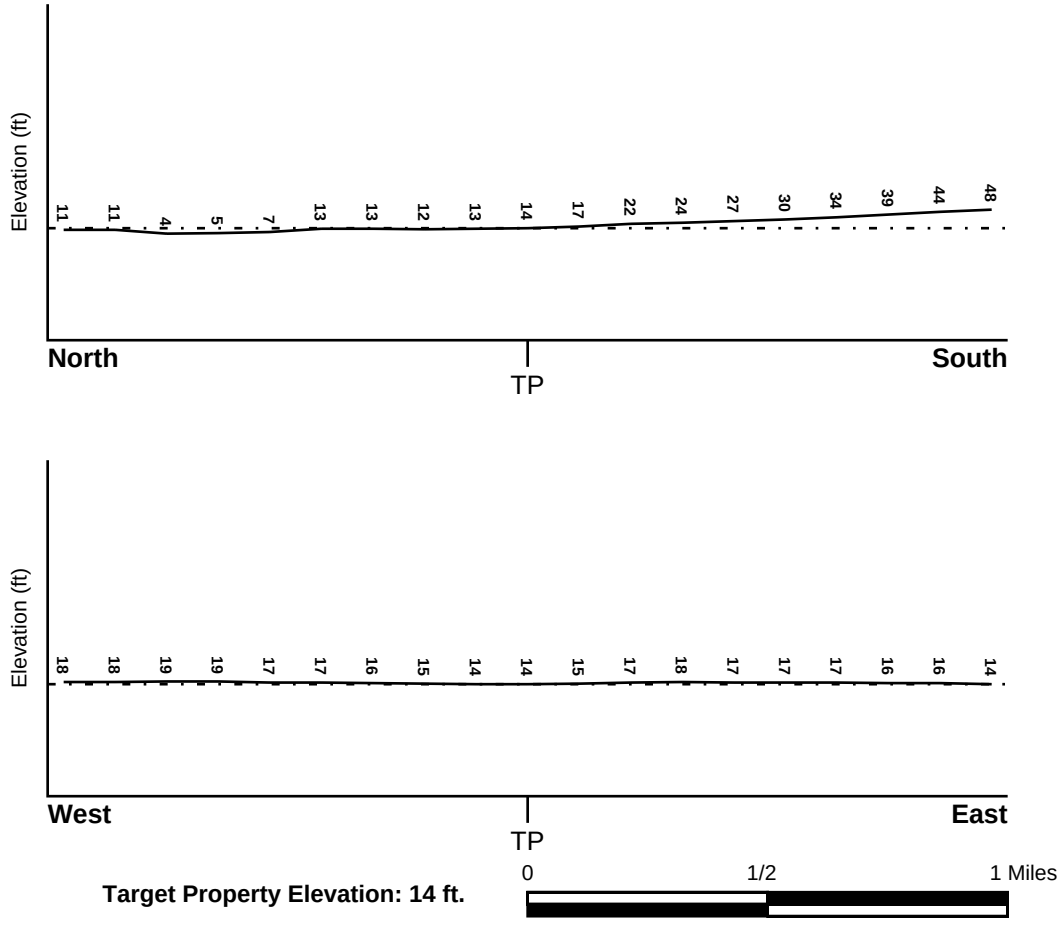
TOPOGRAPHIC INFORMATION

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: 14 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
06081C0302E	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06081C0306E	FEMA FIRM Flood data
0603120000B	FEMA Q3 Flood data
0603110252B	FEMA Q3 Flood data
06081C0308E	FEMA FIRM Flood data
0603110254B	FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PALO ALTO	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
A1	1/8 - 1/4 Mile WSW	Not Reported
A2	1/4 - 1/2 Mile WSW	NNW
B3	1/4 - 1/2 Mile WSW	Not Reported
B4	1/4 - 1/2 Mile WSW	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

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
C5	1/4 - 1/2 Mile West	N
C6	1/4 - 1/2 Mile West	E
8	1/4 - 1/2 Mile West	Not Reported
10	1/4 - 1/2 Mile NW	NE
D11	1/4 - 1/2 Mile NNW	NW
D12	1/4 - 1/2 Mile NNW	NW
13	1/4 - 1/2 Mile West	N
14	1/4 - 1/2 Mile NE	Not Reported
E15	1/4 - 1/2 Mile SSE	Not Reported
E16	1/4 - 1/2 Mile SSE	Not Reported
F17	1/4 - 1/2 Mile NW	W
F18	1/2 - 1 Mile NW	W
G19	1/2 - 1 Mile ESE	NE
G20	1/2 - 1 Mile ESE	NE
G21	1/2 - 1 Mile ESE	N
22	1/2 - 1 Mile SE	N
23	1/2 - 1 Mile ENE	Not Reported
H24	1/2 - 1 Mile SE	NNE
I25	1/2 - 1 Mile WNW	N
I26	1/2 - 1 Mile WNW	N
27	1/2 - 1 Mile West	N
28	1/2 - 1 Mile ESE	Not Reported
H29	1/2 - 1 Mile SSE	Not Reported
H30	1/2 - 1 Mile SSE	Not Reported
32	1/2 - 1 Mile NW	N
I34	1/2 - 1 Mile West	NNE
J35	1/2 - 1 Mile West	WNW
37	1/2 - 1 Mile East	Not Reported
38	1/2 - 1 Mile ENE	NNW
K39	1/2 - 1 Mile West	Not Reported
40	1/2 - 1 Mile SW	NNW
K41	1/2 - 1 Mile West	NE
K42	1/2 - 1 Mile West	NE
43	1/2 - 1 Mile WNW	SW
44	1/2 - 1 Mile East	NE
L45	1/2 - 1 Mile WNW	Not Reported
L46	1/2 - 1 Mile WNW	Not Reported
L47	1/2 - 1 Mile WNW	Not Reported
M48	1/2 - 1 Mile WNW	N
M49	1/2 - 1 Mile WNW	Not Reported
50	1/2 - 1 Mile WSW	NE

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

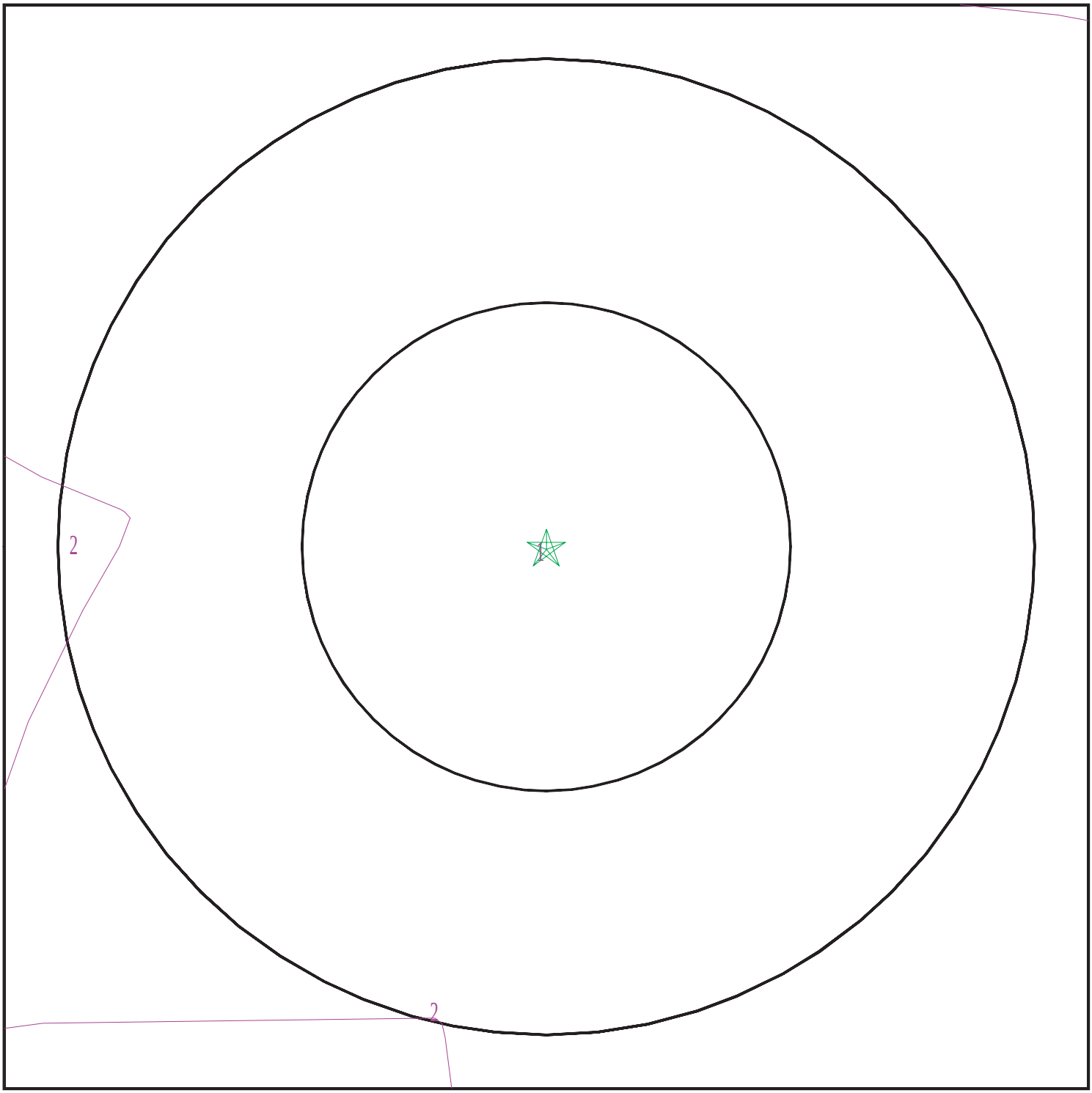
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4955887.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Taft Community School	CLIENT:	McCloskey Consultants Inc
ADDRESS:	903 Tenth Avenue Redwood City CA 94063	CONTACT:	Tom Mccloskey
LAT/LONG:	37.481008 / 122.194425	INQUIRY #:	4955887.2s
		DATE:	June 05, 2017 10:06 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches		Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

Soil Map ID: 2

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches		Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
7	USGS40000183433	1/4 - 1/2 Mile North
9	USGS40000183434	1/4 - 1/2 Mile NNW
31	USGS40000183400	1/2 - 1 Mile ESE
33	USGS40000183382	1/2 - 1 Mile South
51	USGS40000183354	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

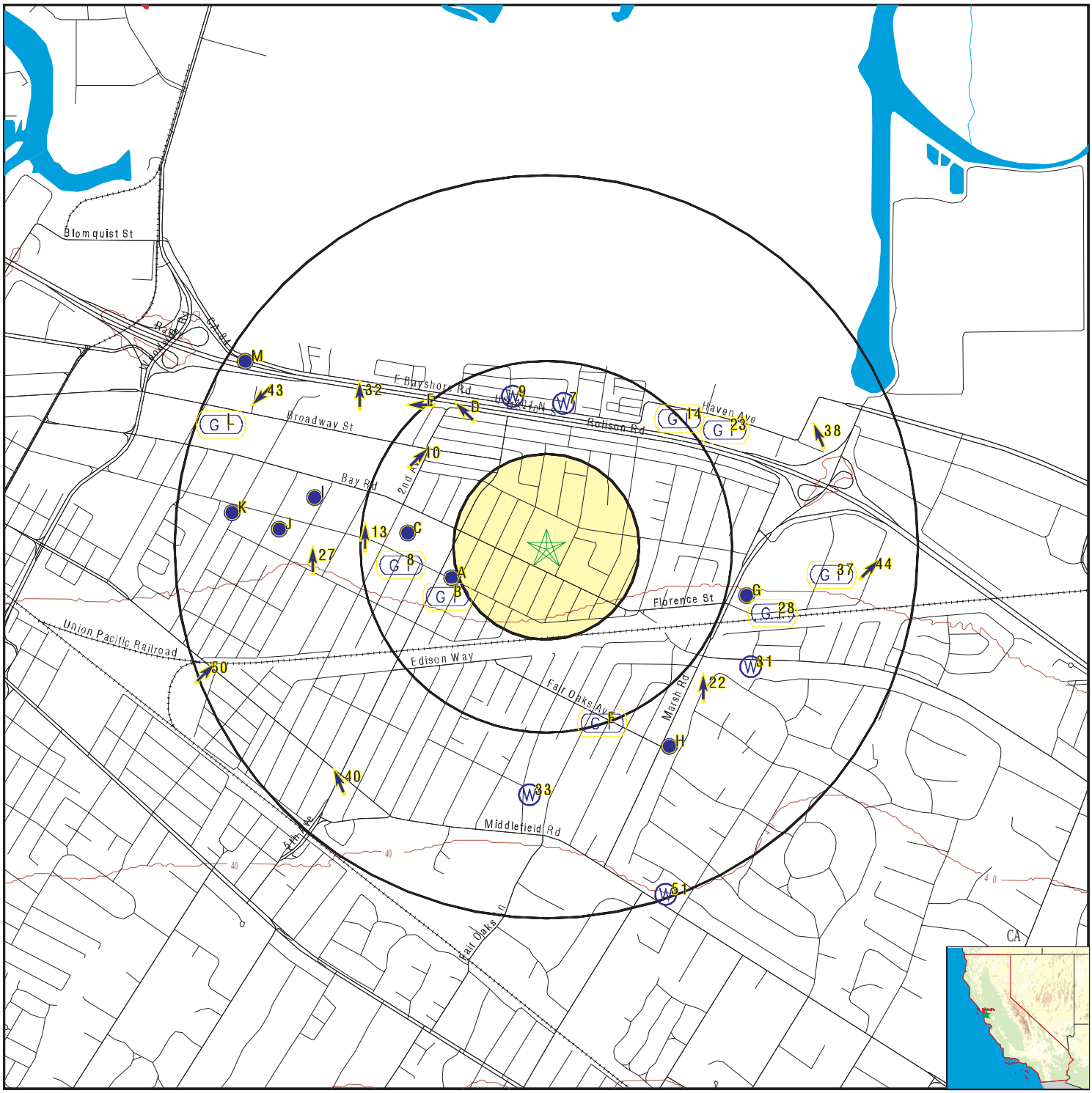
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 4955887.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Taft Community School	CLIENT: McCloskey Consultants Inc
ADDRESS: 903 Tenth Avenue Redwood City CA 94063	CONTACT: Tom Mccloskey
LAT/LONG: 37.481008 / 122.194425	INQUIRY #: 4955887.2s DATE: June 05, 2017 10:05 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
A1 **WSW** **1/8 - 1/4 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0619 Not Reported 8.6 11.03 Not Reported 09/1991	**AQUIFLOW**	**66022**
A2 **WSW** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0045 NNW 10.5 12. Not Reported 12/21/1989	**AQUIFLOW**	**66649**
B3 **WSW** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330039 Not Reported 13.39 14.35 Not Reported 12/03/1992	**AQUIFLOW**	**66004**
B4 **WSW** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0227 Not Reported 13.39 14.35 Not Reported 12/03/1992	**AQUIFLOW**	**66005**
C5 **West** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0398 N 6.05 10.18 Not Reported 03/1996	**AQUIFLOW**	**66028**
C6 **West** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0246 E 8.5 9 Not Reported 10/25/1995	**AQUIFLOW**	**68942**
7 **North** **1/4 - 1/2 Mile** **Lower**			**FED USGS**	**USGS40000183433**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372912122113301		
Monloc name:	005S003W21G002M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4866043
Longitude:	-122.1935762	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.00
Vert measure units:	feet	Vertacc measure val:	001
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel

1980-11-24
Note: The site was flowing, but the head could not be measured without additional equipment.
1980-05-08
Note: The site was flowing, but the head could not be measured without additional equipment.
1979-10-02
Note: The site was flowing, but the head could not be measured without additional equipment.
1979-04-11
Note: The site was flowing, but the head could not be measured without additional equipment.

8
West
1/4 - 1/2 Mile
Higher

Site ID:	41-0418
Groundwater Flow:	Not Reported
Shallow Water Depth:	8.52
Deep Water Depth:	9.00
Average Water Depth:	Not Reported
Date:	12/15/1988

AQUIFLOW **66644**

9
NNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000183434**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372913122114201		
Monloc name:	005S003W21G001M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4868821
Longitude:	-122.1960762	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.00
Vert measure units:	feet	Vertacc measure val:	001
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19620201	Welldepth:	367
Welldepth units:	ft	Wellholedepth:	380
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-10-07					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1974-05-02	3.60				

10
NW
1/4 - 1/2 Mile
Lower

Site ID:	41-0691
Groundwater Flow:	NE
Shallow Water Depth:	6.4
Deep Water Depth:	7.6
Average Water Depth:	Not Reported
Date:	02/19/1985

AQUIFLOW **65570**

D11
NNW
1/4 - 1/2 Mile
Lower

Site ID:	41-0719
Groundwater Flow:	NW
Shallow Water Depth:	6.71
Deep Water Depth:	7.42
Average Water Depth:	Not Reported
Date:	02/13/1991

AQUIFLOW **65526**

D12
NNW
1/4 - 1/2 Mile
Lower

Site ID:	330063
Groundwater Flow:	NW
Shallow Water Depth:	6.71
Deep Water Depth:	7.42
Average Water Depth:	Not Reported
Date:	02/13/1991

AQUIFLOW **65525**

13
West
1/4 - 1/2 Mile
Higher

Site ID:	41-0192
Groundwater Flow:	N
Shallow Water Depth:	9.2
Deep Water Depth:	9.7
Average Water Depth:	9.5a
Date:	09/19/1994

AQUIFLOW **65588**

14
NE
1/4 - 1/2 Mile
Lower

Site ID:	440031
Groundwater Flow:	Not Reported
Shallow Water Depth:	4.5
Deep Water Depth:	5.0
Average Water Depth:	Not Reported
Date:	11/26/1990

AQUIFLOW **64422**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
E15 **SSE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330155 Not Reported Not Reported Not Reported 8’ 04/07/1998	**AQUIFLOW**	**67036**
E16 **SSE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-1091 Not Reported Not Reported Not Reported 8’ 04/07/1998	**AQUIFLOW**	**67037**
F17 **NW** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330147 W 3.0 7.6 Not Reported 04/07/1997	**AQUIFLOW**	**65976**
F18 **NW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-1009 W 3.0 7.6 Not Reported 04/07/1997	**AQUIFLOW**	**65975**
G19 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440018 NE 7.79 11.89 Not Reported 09/07/1994	**AQUIFLOW**	**64481**
G20 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440034 NE Not Reported Not Reported 17.39 09/10/1991	**AQUIFLOW**	**64355**
G21 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0195 N 11.85 13’ Not Reported 07/25/1996	**AQUIFLOW**	**67110**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
22 **SE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440048 N 10.41 10.69 Not Reported 01/26/1999	**AQUIFLOW**	**51130**
23 **ENE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0158 Not Reported Not Reported Not Reported 6a 06/08/1992	**AQUIFLOW**	**67035**
H24 **SE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440002 NNE 11.77 13.28 Not Reported 07/03/1996	**AQUIFLOW**	**64368**
I25 **WNW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330100 N 10 11 Not Reported 10/13/1992	**AQUIFLOW**	**65535**
I26 **WNW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330100 N 10 11 Not Reported 10/13/1992	**AQUIFLOW**	**65538**
27 **West** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0273 N 13.17 15.00 Not Reported 03/02/1992	**AQUIFLOW**	**66705**
28 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440039 Not Reported Not Reported Not Reported 12 07/13/1992	**AQUIFLOW**	**64392**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
H29 **SSE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0223 Not Reported Not Reported Not Reported 19 11/07/1988	**AQUIFLOW**	**64375**
H30 **SSE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440025 Not Reported Not Reported Not Reported 19 11/07/1988	**AQUIFLOW**	**64376**

31
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000183400**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372835122110001		
Monloc name:	005S003W22N001M		
Monloc type:	Well		
Monloc desc:	ATHERTON GW STUDY SITE		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4763269
Longitude:	-122.1844093	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	23
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 46

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-12-14	15.24		1995-11-16	15.21	
1995-10-19	15.14		1995-09-14	15.10	
1995-08-31	15.10		1995-08-17	15.05	
1995-08-03	15.06				
1995-07-20	15.10				
Note: The site had been pumped recently.					
1995-07-06	15.13		1995-06-22	15.20	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-06-08	15.30		1995-05-11	15.51	
1995-04-27	15.67		1995-04-13	15.87	
1995-03-30	16.06		1995-03-16	16.29	
1995-03-07	16.35		1995-03-02	16.36	
1995-02-16	16.45		1995-02-02	16.62	
1995-01-19	16.75		1994-12-15	16.82	
1994-11-22	16.86		1994-11-11	16.76	
1994-10-20	16.65		1994-10-06	16.56	
1994-09-22	16.50		1994-08-18	16.20	
1994-08-04	16.12		1994-07-21	16.07	
1994-07-07	16.07		1994-06-23	15.97	
1994-06-09	15.96		1994-05-26	15.98	
1994-05-11	16.07		1994-04-28	16.09	
1994-04-13	16.14		1994-03-31	16.23	
1994-03-16	16.27		1994-03-03	16.39	
1994-02-17	16.46		1994-02-02	16.53	
1994-01-20	16.55		1993-10-19	16.55	
1993-08-11	16.35		1993-04-05	17.18	

32
NW
1/2 - 1 Mile
Lower

AQUIFLOW **65515**

Site ID:	41-0008
Groundwater Flow:	N
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	13.5a
Date:	03/13/1991

33
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000183382**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372817122113901		
Monloc name:	005S003W28G001M		
Monloc type:	Well		
Monloc desc:	ATHERTON GW STUDY SITE		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4713269
Longitude:	-122.1952429	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	31.5
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

Aquifer type: Not Reported
Construction date: 19770507 Welldepth: 75
Welldepth units: ft Wellholedepth: 75
Wellholedepth units: ft

Ground-water levels, Number of Measurements: 17

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-09-14	19.79		1995-06-22	18.70	
1995-03-30	18.80		1994-12-15	22.64	
1994-11-11	22.93		1994-10-06	22.76	
1994-09-08	22.45		1994-08-04	21.98	
1994-07-07	21.54		1994-06-09	21.17	
1994-05-12	20.96		1994-04-14	20.96	
1994-03-16	21.11		1994-01-20	22.05	
1993-10-19	22.18		1993-08-11	21.50	
1993-07-07	20.99				

I34
West
1/2 - 1 Mile
Higher

Site ID: 330062
Groundwater Flow: NNE
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 10a
Date: 06/1991

AQUIFLOW **67097**

J35
West
1/2 - 1 Mile
Higher

Site ID: 41-0313
Groundwater Flow: WNW
Shallow Water Depth: 10.81
Deep Water Depth: 13.82
Average Water Depth: Not Reported
Date: 03/08/1990

AQUIFLOW **66011**

J36
West
1/2 - 1 Mile
Higher

Site ID: 41-0070
Groundwater Flow: Not Reported
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 8
Date: 03/17/1987

AQUIFLOW **65764**

37
East
1/2 - 1 Mile
Higher

Site ID: 440047
Groundwater Flow: Not Reported
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 9
Date: 03/04/1996

AQUIFLOW **64378**

38
ENE
1/2 - 1 Mile
Lower

Site ID: 41-0110
Groundwater Flow: NNW
Shallow Water Depth: 5.0
Deep Water Depth: 7.0
Average Water Depth: Not Reported
Date: 03/31/1995

AQUIFLOW **64401**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
K39 **West** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0798 Not Reported 12 17 Not Reported 07/05/1994	**AQUIFLOW**	**65760**
40 **SW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0229 NNW Not Reported Not Reported 25 04/04/1996	**AQUIFLOW**	**66647**
K41 **West** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330025 NE 11’ 15’ Not Reported 07/09/1992	**AQUIFLOW**	**66712**
K42 **West** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0275 NE 11’ 15’ Not Reported 07/09/1992	**AQUIFLOW**	**66713**
43 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0343 SW 6.93 7.75 Not Reported 05/03/1995	**AQUIFLOW**	**65725**
44 **East** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440032 NE 6.45 8.95 Not Reported 09/05/1995	**AQUIFLOW**	**64384**
L45 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330031 Not Reported Not Reported Not Reported 8a 03/1989	**AQUIFLOW**	**65658**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
L46 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0284 Not Reported Not Reported Not Reported 8a 03/1989	**AQUIFLOW**	**65659**
L47 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0317 Not Reported 7.56 12.5 Not Reported 07/13/1987	**AQUIFLOW**	**67104**
M48 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330154 N Not Reported Not Reported 4 11/17/1997	**AQUIFLOW**	**65505**
M49 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0072 Not Reported Not Reported Not Reported 9.5 09/17/1991	**AQUIFLOW**	**65503**
50 **WSW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0071 NE 14 15 Not Reported 06/18/1980	**AQUIFLOW**	**65770**
51 **SSE** **1/2 - 1 Mile** **Higher**			**FED USGS**	**USGS40000183354**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372803122111501		
Monloc name:	005S003W28J003M		
Monloc type:	Well		
Monloc desc:	ATHERTON GW STUDY SITE		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4674382
Longitude:	-122.188576	Sourcemap scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	37
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19880915	Welldepth:	150
Welldepth units:	ft	Wellholedepth:	150
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 29

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-09-14	22.55		1995-07-19	21.17	
1995-06-22	20.13		1995-05-24	19.82	
1995-03-30	19.74		1994-12-15	24.70	
1994-11-11	26.67		1994-10-20	27.61	
1994-10-06	27.21		1994-09-22	27.38	
1994-09-08	26.62		1994-08-18	25.99	
1994-08-04	25.81		1994-07-21	25.30	
1994-07-07	25.07		1994-06-23	24.14	
1994-06-09	23.11		1994-05-26	22.69	
1994-05-12	22.06		1994-04-28	22.18	
1994-04-14	22.24		1994-03-31	22.06	
1994-03-17	22.16		1994-03-03	21.86	
1994-02-17	22.04		1994-02-02	22.44	
1994-01-20	22.81		1993-10-19	24.29	
1993-10-07	25.07				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94063	19	2

Federal EPA Radon Zone for SAN MATEO 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: 94063

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.300 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 & Game
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.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix D

Historical Aerial Photographs

Taft Community School
903 Tenth Avenue
Redwood City, CA 94063

Inquiry Number: 4955887.6
June 05, 2017

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/05/17

Site Name:

Taft Community School
903 Tenth Avenue
Redwood City, CA 94063
EDR Inquiry # 4955887.6

Client Name:

McCloskey Consultants Inc
420 Sycamore Valley Road West
Danville, CA 94526
Contact: Tom Mccloskey

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
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 24, 1963	USGS
1958	1"=500'	Flight Date: July 21, 1958	USGS
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

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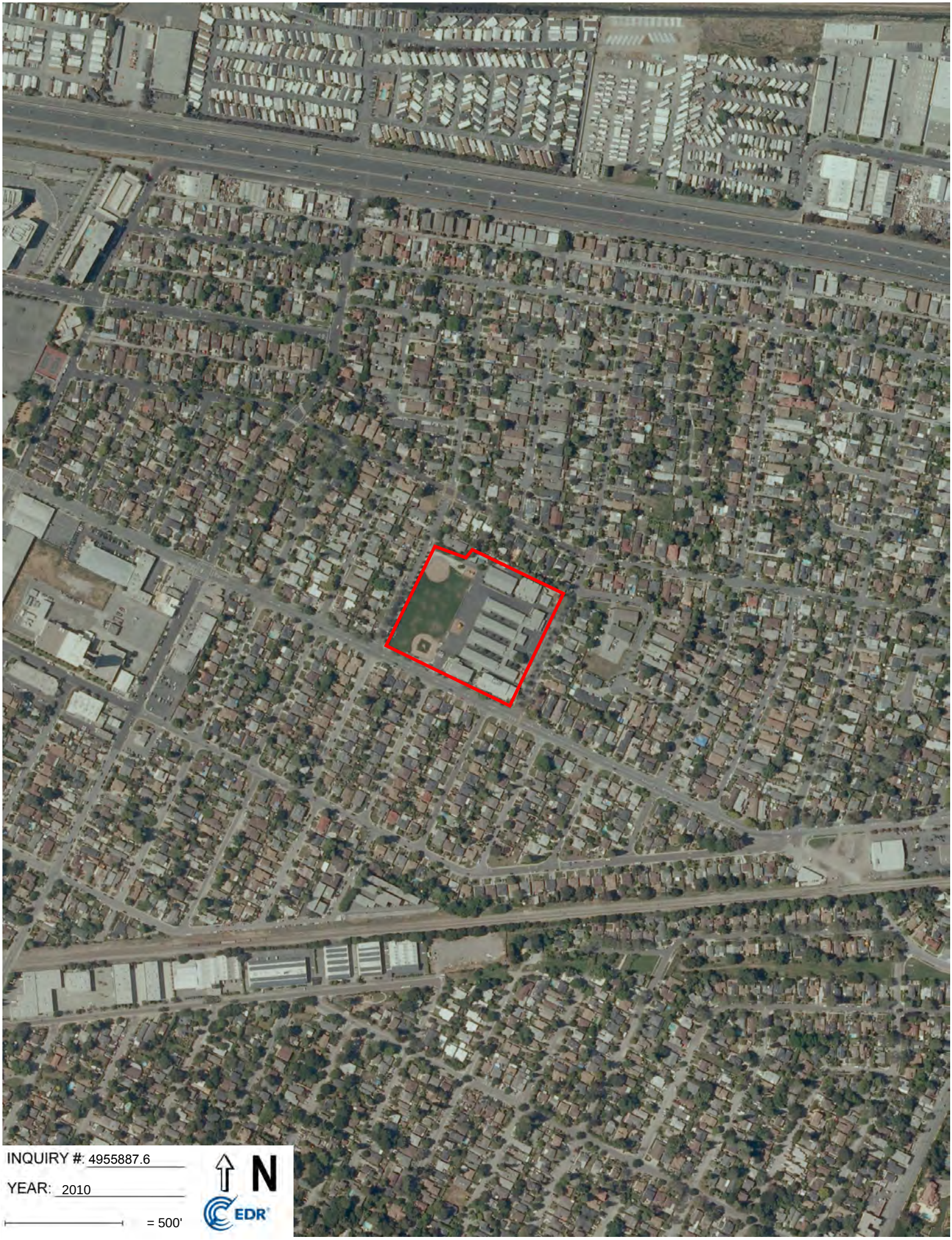
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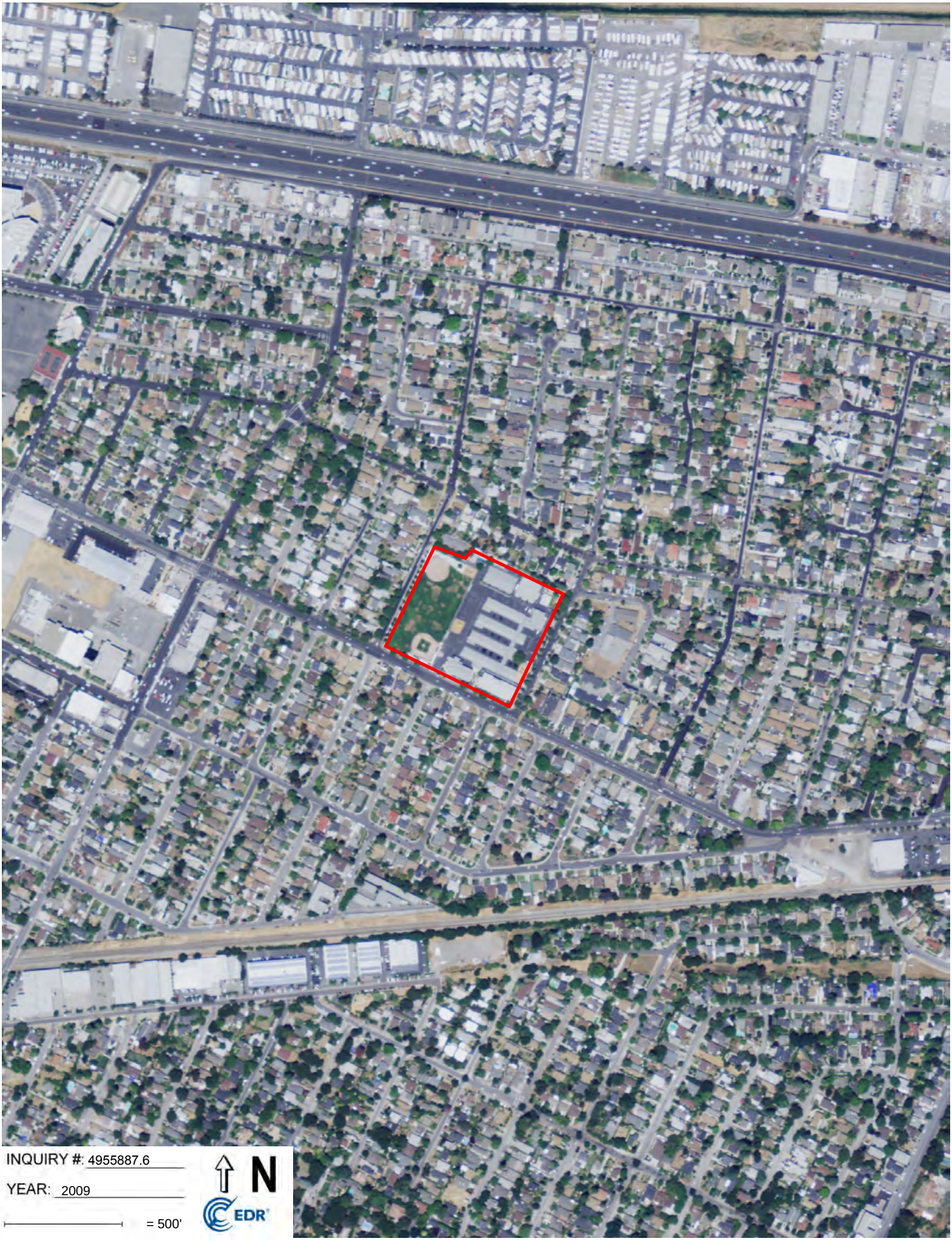
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Taft Community School
903 Tenth Avenue
Redwood City, CA 94063

Inquiry Number: 4955887.3
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Site Name:

Taft Community School
903 Tenth Avenue
Redwood City, CA 94063
EDR Inquiry # 4955887.3

Client Name:

McCloskey Consultants Inc
420 Sycamore Valley Road West
Danville, CA 94526
Contact: Tom Mccloskey

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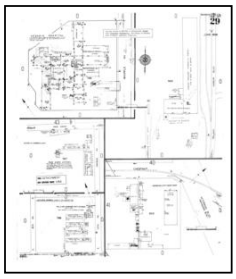

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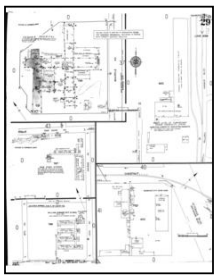

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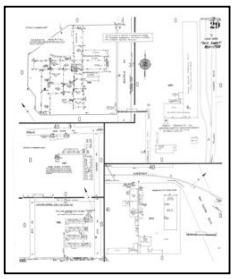

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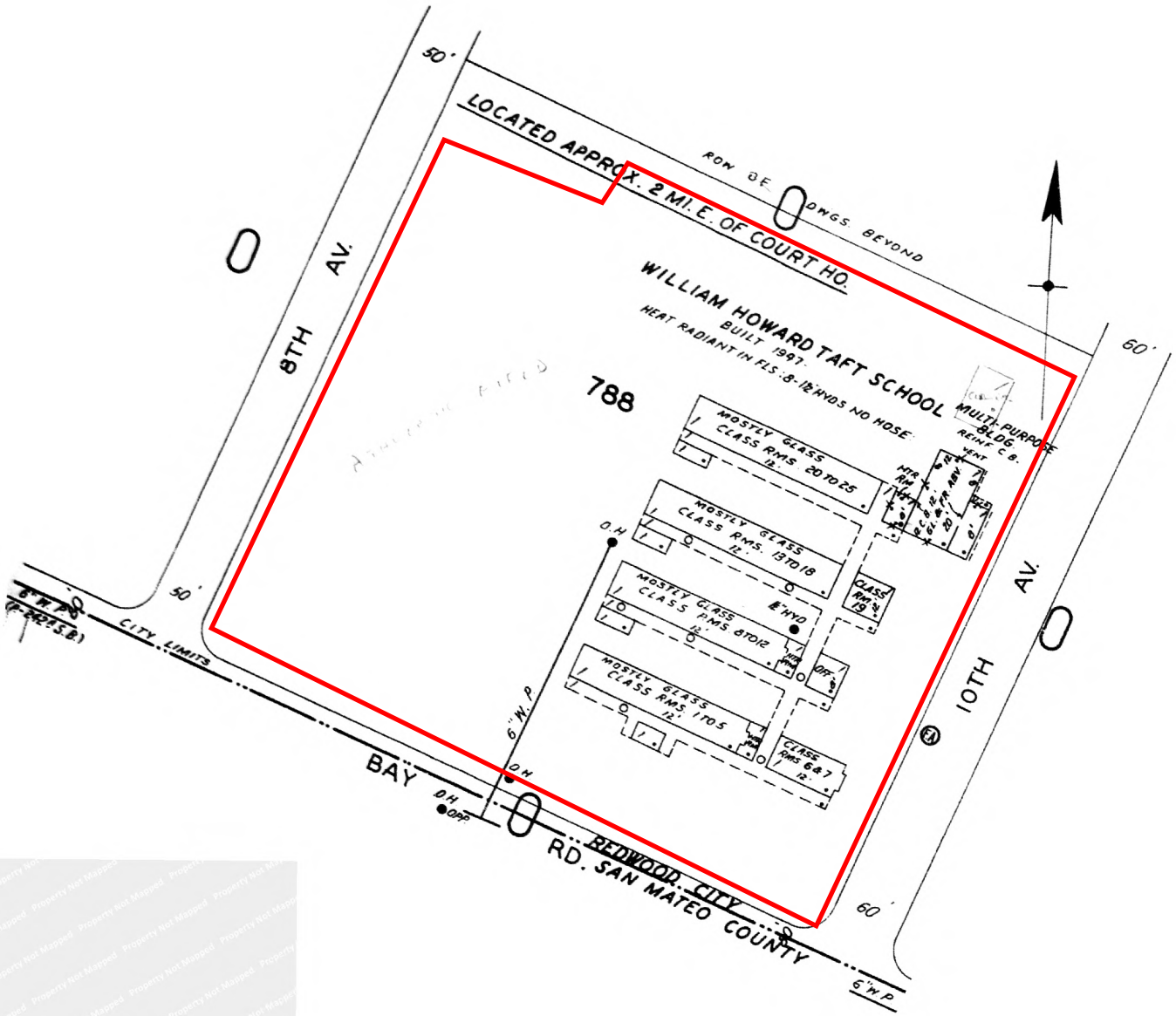

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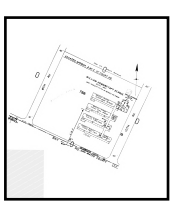

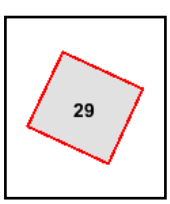

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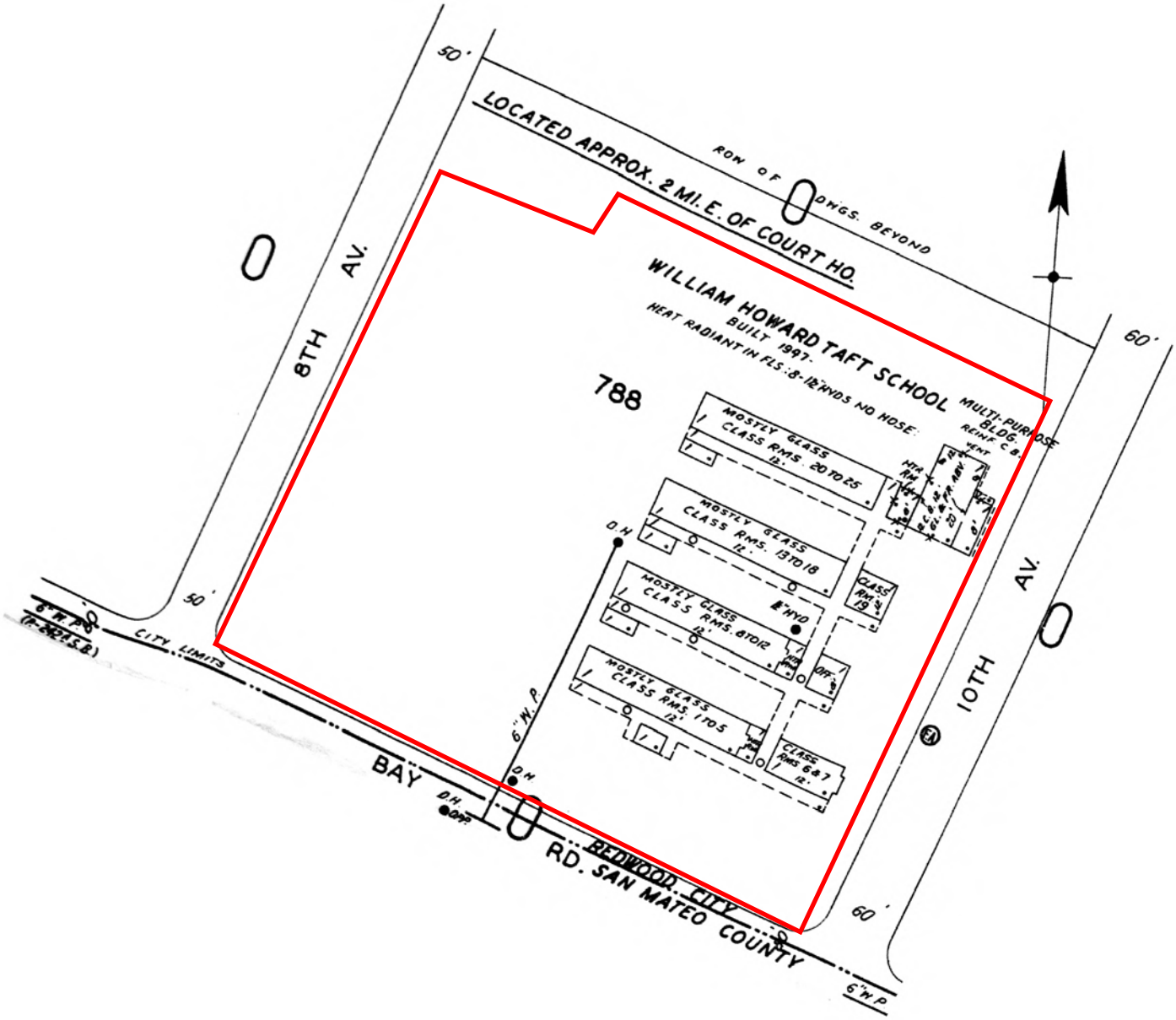

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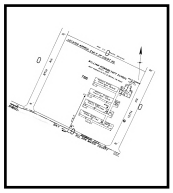

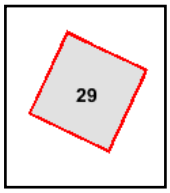

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Appendix I
Preliminary Environmental Assessment Workplan

Draft Preliminary Environmental Assessment Workplan, Taft Community School Expansion, Redwood City

Prepared for:

Redwood City School District
Redwood City, California

February 28, 2018

Prepared by:
McCloskey Consultants, Inc.

DRAFT PRELIMINARY ENVIRONMENTAL ASSESSMENT WORKPLAN

TAFT COMMUNITY SCHOOL EXPANSION

903 10th Avenue

Redwood City, California 94063

February 28, 2018

Prepared for:

REDWOOD CITY SCHOOL DISTRICT

Prepared by:

McCloskey Consultants, Inc.

420 Sycamore Valley Road West

Danville, CA 94526

Tina M. Hariu, P.G., C.Hg.

Senior Geologist

Thomas F. McCloskey, P.G., C.E.G., C.Hg.

President and Principal Geologist

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1.0 INTRODUCTION

On behalf of the Redwood City School District (RCSD), McCloskey Consultants, Inc. (MCI) has prepared this Preliminary Environmental Assessment (PEA) Workplan for the proposed renovation/redevelopment of a portion of the 7.56-acre Taft Community School located at 903 10th Avenue, in Redwood City, San Mateo County, California (the "Site") (Figure 1). Redwood City is located on the east side of San Mateo County, along the western margin of the San Francisco Bay.

MCI understands that current redevelopment plans include: (1) partial demolition of three permanent classroom buildings, a faculty lounge, a faculty work room, the library, and a technology lab and storage room on the eastern side of the permanent buildings; (2) removal of the portable structure housing the Taft Child Development Center, and, (3) construction of a new two-story classroom building with school office, lunch room and library, and a new parking lot (Figure 2).

A Site visit and Scoping Meeting was performed on December 13, 2017. Participants included Mellan Songco (Department of Toxic Substances Control [DTSC], Schools Program Project Manager), Vivek Mathrani (DTSC Toxicologist), John Baker (Superintendent), Donald Dias (Bond Program Director), William Robertson (RGM and Associates), Regina Bills-Dacong (School Site Solutions), and Tom McCloskey (McCloskey Consultants). The Site history was reviewed and four potential areas of environmental interest were identified in that meeting:

- Current and (potential) Historical Structures – Lead-based paint (LBP) (pre-1993 structures), organochlorine pesticides (OCPs)/termiticides (pre-1989 structures), and polychlorinated biphenyls (PCBs; in window caulking/glazing) (structures constructed between 1950 to 1979);
- Naturally Occurring Asbestos (NOA) – Associated with nearbyultramafic rocks;
- A Pole-Mounted Transformer – Potentially containing PCB-laden oil;
- Radon – Associated with decay of naturally-occurring radium.

In this document, the potential environmental concerns identified will be evaluated for their potential for health impacts at the Site.

1.1 Purpose

Under Senate Bill 475 (1989), the preparation of a PEA is a formal step in the site evaluation process of the DTSC School Site Mitigation Unit. The purpose of a PEA Workplan is to describe how site sampling and analyses will be performed to determine if current or past hazardous materials management practices have resulted in the release of hazardous materials, and if

naturally-occurring hazardous materials are present. If conditions exist that could pose a health threat, a risk analysis must be performed in the PEA to determine if their presence represents a threat to children's health or learning abilities, site workers health, or the environment.

1.2 Scope of Work

The scope of work for the Site evaluation is described in detail in Section 6.0 and is based on the evaluation of current and historic Site uses and practices that may have resulted in the release of contaminants that could remain in soils at elevated concentrations. The methods used to develop the scope of work included a review of an environmental database, review of historical air photos, interview with Site representatives, a Site reconnaissance, a Scoping Meeting with the DTSC, and the use of several DTSC Schools Program site sampling guidance documents including the following key documents:

- *Preliminary Endangerment Assessment Guidance Manual,* latest revision October 2013;
- *Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Results of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers,* latest update September 12, 2006;
- *Interim Guidance for Sampling Agricultural Properties (Third Revision),* latest update April 30, 2008;
- *Interim Guidance Naturally-Occurring Asbestos (NOA) at School Sites,* latest revision September 24, 2004; and,
- *Arsenic Strategies, Determination of Arsenic Remediation, Development of Arsenic Cleanup Goals for Proposed and Existing School Sites,* March 21, 2007.

The sampling to be performed at the PEA level is a one-time sampling of surface soil and sub-surface soil, and potentially groundwater and soil vapor. The objective of the sampling is to evaluate the nature and concentrations of contaminants that may be present. It should be noted that additional rounds of sampling via a Supplemental Site Investigation (SSI) may be necessary to fully characterize the extent of contamination, if any is identified, that represent a potential health risk. Once the sampling results are obtained an assessment of the potential threat to human health and the environment will be performed using screening evaluations. Exposure routes will first be identified, then potential threats will be estimated using DTSC methods that could vary depending on the sampling results. The DTSC toxicologist will be contacted and an agreement reached on the appropriate methods in the unlikely event that a detailed risk assessment is warranted.

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2.0 SITE DESCRIPTION

2.1 Site and Vicinity

The Site is a rectangular-shaped area in the eastern and northeastern portions of the Taft Community School parcel (Figure 2). The school Assessor's Parcel Number (APN) is 055-063-013 was unavailable from either the RCSD or the San Mateo County Assessor's Office (SMCAO). The school property (including the Site) is approximately 7.56-acres. The Site area for improvements is approximately 2 acres. The school is located in a residential area of Redwood City, approximately 0.4 mile southwest of U.S. Highway 101 (Bayshore Freeway).

Non-Site portions of Taft Community School border the Site on the south and west (Figure 2). The school parcel is bounded by residences on the north, 10th Avenue on the east, Bay Road on the south, and 8th Avenue on the west.

Site and vicinity topography slope gently toward the northeast. The ground surface elevation at the Site is approximately 14 feet above mean sea level (Appendix A).

2.1.1 Site Information

The Site information provided herein is based on the results of the Phase I Environmental Site Assessment (ESA) conducted by MCI in 2017 (McCloskey, 2017), information obtained in recent reviews of historical and Google Earth aerial photographs (Appendix B), and a Site visit conducted as part of the PEA workplan preparation.

The Site boundary shown on Figure 2 is approximated, and the area includes:

- Eastern portions of:
    - The second permanent classroom, constructed about 1947(includes the Faculty Lounge).
    - The third permanent classroom, constructed sometime between 1951 and 1953 (includes the Faculty Work Room).
    - The fourth permanent classroom, constructed sometime between 1951 and 1953 (includes the Library, Tech Lab, Administrative Offices, and two storage areas).
- The Taft Child Development Center (a portable structure), constructed in 1999.
- The Garden/Outdoor Classroom on the northeast.
- Several small landscaped areas with exposed soil.
- Asphalt-paved areas around the buildings.
- Paved parking and driveway areas.

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- A new lunch structure in the southwest corner of the school.

Based on the review of historical aerial photographs, the Site was open, undeveloped grassland in 1943. The first permanent classroom was reportedly constructed on the school property in 1947 (Figure 2). The aerial photograph from 1948 suggests the Site was not fully paved at that time, one year after the first classroom had been constructed (Appendix B). The second permanent classroom had been constructed by 1950, and the pavement extended a short distance north of the classroom. By 1953, the remaining two permanent classrooms had been constructed, and the entire Site appeared paved, except the playground on the southwest side of the Site. By 1963, the pavement appeared to have been removed from a small rectangular area (i.e., the current garden/outdoor classroom) on the northeast portion of the Site, likely exposing surface soil. The Taft Family Center was constructed in 1968. By 1982, small areas around the buildings contained trees and landscaping, likely exposing surface soil. Several of the existing buildings were modified in the 1990s, and the Taft Child Development Center (a portable structure) was constructed in 1999.

2.1.3 Historical Structure

According to the Phase I ESA, a small historical structure was reported to be present (circa 1960) in the vicinity of the Taft Child Center on the north side of the Site. The exact location is not known, and the structure was replaced by a larger structure in 1963, which was likely a potable placed on asphalt. That building was replaced in approximately 1999 by the current Taft Child Development Center.

2.1.4 Transformer

A Pacific Gas and Electric Company (PG&E) pad-mounted transformer (T-432) is located adjacent to the northwestern corner of the Taft Child Development Center portable structure (Figure 2). No indication of releases from the transformer was observed during the Site reconnaissance conducted by MCI as part of the Phase I ESA. PG&E has been contacted to evaluate the status of the transformer but the information from PG&E was outstanding at the time this draft workplan was issued.

Drinking water is supplied to the Site by the Hetch Hetchy regional water system and no wells have been identified at the Site. No evidence of underground storage tanks (USTs) at the Site has been identified (McCloskey, 2017).

2.2 Geology and Hydrogeology

Redwood City is located in the eastern portion of San Mateo County, along the western margin of the San Francisco Bay. San Mateo County is located in the Coast Ranges Geomorphic Province,

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which is characterized by northwest-southeast trending mountain ranges and valleys subparallel to the San Andreas Fault. The Site is located within the Santa Clara Valley Groundwater Basin, San Mateo Plain Subbasin (Subbasin). The aquifer system in the Subbasin consists of the Santa Clara Formation and Quaternary-age alluvial deposits. The Santa Clara Formation is comprised of Plio-Pleistocene-Age materials. The Quaternary alluvium is the most significant water-bearing formation in the Subbasin.

The California Department of Conservation General Location Guide for Ultramafic Rocks in California was reviewed to evaluate the presence of potential NOA in the immediate vicinity of the Site. The nearest outcrop of ultramafic rock that could contain NOA is documented approximately 4 miles to the west-southwest (California Department of Conservation, 2000). This is within the 10-mile distance established by the DTSC Schools Program guidelines which triggers sampling for NOA fibers.

Vicinity hydrogeological information obtained from the State Water Resources Control Board (SWRCB) GeoTracker database indicates first-encountered groundwater occurs at depths ranging from approximately 3 to 12 feet below ground surface (bgs). The groundwater flow direction is anticipated to follow the local topographic slope toward the north.

2.3 Soils

Based on information contained in the Environmental Data Resources Radius Map™ Report with Geocheck® (EDR Radius Report) prepared for the Phase I ESA, soils in the vicinity of the Site are categorized by the USDA Soil Conservation Service as Orthents and Urban Land. The EDR Radius Report is provided in Appendix A for reference purposes. Orthents soils are moderately-well and well-drained, variable soils with moderately coarse textures and moderate infiltration rates. Urban Land soils are partially hydric, clayey soils with a high-water table or located shallow to an impervious layer, and having very slow infiltration rates (EDR, 2017).

3.0 SITE BACKGROUND

3.1 Operational History and Status

3.1.1 Prior Site Land Use

A review of historical aerial photographs for the Site vicinity indicates the school property (including the Site) was undeveloped grassland until the mid-1940s (Appendix B). A small feature is present on the western central portion of the Site in the 1943 photograph. The feature was identified in the Phase I as possibly a small structure but could also have been just a hay bale, which is consistent with the Site use as a grassland at that time.

No evidence of former agricultural use such as row crops or orchards was observed. As stated previously, the Site was developed with the first permanent classroom by 1947. The Site has been used for educational purposes since that time.

3.1.2 Property Ownership

Original ownership of the property (including the Site) has not been established. The school property (including the Site) has been continuously owned by the Redwood City School District since construction of the first Taft school classroom in 1947 (McCloskey, 2017).

3.1.3 Prior Surrounding Land Use

Based on a review of historical aerial photographs and topographic maps, adjoining properties were undeveloped in the late 1890s and early 1900s. By 1943, the vicinity appeared to have been developed with a mix of residential and undeveloped properties, and grazing land (on the south and southwest). Southern Pacific Railroad tracks were present a short distance south of the Site, and marshlands of the San Francisco Bay were present a short distance to the north. Significant residential development occurred by the late 1940s. By the 1950s, the Site vicinity was fully developed with residences.

3.2 Hazardous Substance/Waste Management Information

3.2.1 Site Activities

According to interviews conducted with Mr. Dias as part of the Phase I ESA, the school utilizes minimal quantities (i.e., less than one-gallon containers) of assorted janitorial materials and paints. Custodial cleaning, periodic weed and broad leaf control, and fertilizer materials occasionally are used. Following cleaning, "custodial green" cleaners, such as Suprox and hydrogen peroxide, are disposed to the sanitary sewer. Chemical waste (such as paint) reportedly is stored at the RCSD corporation yard prior to disposal by a licensed transporter.

Mr. Dias was unaware of any USTs at the Site. Mr. Dias is not aware of any indications of contamination on the Site, and reported no knowledge of environmental cleanup liens, activity and land use limitations, or pending, threatened or past litigation or administrative proceedings related to hazardous substances or petroleum products at the Site. He also reported no receipt of notices from governmental entities regarding possible violation of environmental laws or liability related to the same.

Based on the results of a Site visit conducted on June 16, 2017, a storage and janitorial room is present in the technology lab building. The room contained shelving units with multiple 1-quart and 1-gallon containers of assorted janitorial materials. A steel freight container located in the garden/outdoor classroom area housed assorted school maintenance equipment, as well as a

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shelf containing approximately ten 1-gallon cans of paint, and a mostly empty flammable materials storage cabinet.

AHERA asbestos surveys reportedly are completed at the Site every three years. During abatement projects for ACM and LBP, ACM debris is stored in a shipping container placed at the school, and LBP debris is placed in a 55-gallon drum. These containers are removed from the school for disposal following completion of the projects.

3.2.2 Oversight Agency Records

The EDR Radius Report was reviewed to help establish if hazardous materials incidents, radon gas, or oil and gas wells have been reported on the Site or in the immediate Site vicinity. The Site was listed on four of the regulatory agency databases included in the report: RCRA Small Quantity Generator (SQG), Haznet, FINDS, and ECHO. The FINDS and ECHO databases are indicator databases for inclusion of the Site on the Haznet and SQG databases and contain no significant information.

The RCRA-SQG listing indicated Taft School (under RCSD) submitted registration as a small quantity generator of hazardous waste (between 100 and 1,000 kg/month generated) in 1996. The database listing also indicated the school submitted registration as a large quantity generator of hazardous waste (greater than 1,000 kg/month generated) in 1986. No generator violations were documented. Based on information obtained from the RCSD, the school applied for the generator designations for disposal of building materials during previous renovations.

The Haznet database is a record of facilities that submit manifests for disposal of hazardous waste. The Taft School Haznet listings documented disposal of: 50.56 tons of asbestos-containing waste and 1.26 tons of other organic solids in 2001; 21.07 tons of asbestos-containing waste in 2005; 88.45 tons of asbestos-containing waste in 2004, and 0.25 ton of asbestos-containing waste in 2011.

On June 9, 2017, MCI requested available hazardous materials files and documents related to the presence or absence of environmental conditions and activities on the Site available from the San Mateo County Environmental Health Department (SMCEHD) (MCI, 2017). According to the SMCEHD representative, there are no files for the school.

The on-line SWRCB GeoTracker database and the DTSC EnviroStor database were reviewed for listings associated with the school. The school was not included in databases for either agency.

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3.2.3 Federal and State Radon Screening

Federal and State radon screening test data for the Site zip code of 94063 are included in the EDR Radius Report (Appendix A). Based on information provided in the report, one Federal and nineteen (19) State radon screening tests have been performed within the Site zip code. The Federal radon screening test of the 1st floor living area reported radon activity at 0.3 picocurie per liter (pCi/l). No Federal radon screening tests of basement levels were reported. Two of the 19 State tests (10%) reported radon exceeding the 4 pCi/l action level.

Radon testing in San Mateo County performed by the State showed that 80% of the tests were less than 2 pCi/l, 12% were between 2 and 3.0 pCi/l, and 8% were greater than 4 pCi/l. In addition, according to the Radon Potential Zone Map for San Mateo County (Churchill, 2014), the Site is not in a high potential area for indoor air concerns for radon. San Mateo County is reported in Federal EPA Radon Zone 2, with average indoor radon levels between 2 and 4 pCi/l.

4.0 POTENTIAL CHEMICALS OF ENVIRONMENTAL CONCERN

Based on results of the review of historical documents, suspected historical practices, interviews conducted during the previous Phase I ESA, and the Site visit conducted by the DTSC and MCI, potential chemicals of environmental concern for the Site include:

- Lead-Based Paint (banned in 1993):

  Lead-based paint may have been used on the permanent structures constructed between 1947 and 1953, and the Taft Family Center constructed in 1968 (Figure 2). Therefore, lead-based paint is deemed a chemical of potential environmental concern for these buildings.
- PCBs (possibly present in window caulking/glazing utilized between 1950 and 1979):

  PCBs were sometimes used in window caulking and glaze from 1950 to 1979. Three permanent classrooms were constructed between 1950 and 1953, and the Taft Family Center was constructed in 1968. Therefore, PCBs are deemed a chemical of potential environmental concern for these buildings. The Taft Child Development Center was placed in 1999 and therefore PCBs are not a concern.
- OCPs and Arsenic:

  OCPs may have been used as termiticides around the perimeters of all buildings constructed between 1950 and 1968 (i.e., all existing structures except the Taft Child Development Center) to kill termites and other insects. Arsenic containing herbicides may have been used in exposed soil areas to control weeds. Therefore, OCPs and arsenic are deemed chemicals of potential environmental concern.
- Naturally-Occurring Asbestos:

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The Site is approximately 4 miles from ultramafic rocks that potentially contain NOA. Therefore, NOA is deemed a substance of potential environmental concern.

- PCBs (around transformer):

  PCBs have been used in transformer oils but were banned from all uses in 1978. PG&E has been contacted but information on the transformer was not received by the time this draft workplan was prepared.

- Naturally-Occurring Radon:

  The Site lies in Federal EPA Radon Zone 2, with average indoor radon levels between 2 and 4 pCi/l. Based on the test data, there is a low probability of radon exceeding the action level.

5.0 CONCEPTUAL SITE MODEL AND POTENTIAL AREAS OF ENVIRONMENTAL CONCERN

This section describes a conceptual site model (CSM) for the Site and describes potential areas and distribution of environmental concerns. The potential routes of human exposure associated with these potential contaminants are also evaluated and include inhalation, ingestion, and dermal contact, as shown in Figure 3.

5.1 Conceptual Site Model

As discussed previously potential primary sources of chemicals could include:

- Lead-based paint used on buildings constructed prior to 1993;
- Window caulking/glazing potentially containing PCBs utilized between 1950 and 1979;
- OCPs and arsenic at the perimeter of older buildings;
- Ultramafic rock deposits containing NOA; and,
- A transformer potentially containing PCBs.

Potential release mechanisms for the various chemicals of concern include:

- Flaking and deposition of lead from paint and PCBs from window caulking/glazing;
- Direct application or injection of OCPs and arsenic;
- Nearby ultramafic rocks containing NOA; and,
- Leaks of PCBs in transformer oils.

Potential secondary sources include shallow soil. Potential secondary release mechanisms are limited to fugitive dust Potential exposure pathways associated with the Site contaminants include air and contact with surface soils. Potential exposure routes include inhalation, ingestion, and dermal contact.

Based on this evaluation, potentially complete exposure routes to contaminants include inhalation of fugitive dust and ingestion of and dermal contact with surface sediment. The exposure route for groundwater source is deemed incomplete due to the following: (1) no wells have been identified on the Site; (2) the Site is provided municipal potable water; and (3) the chemicals of potential concern have relatively low mobilities and are not expected to migrate to groundwater.

Based on the CSM, a screening evaluation of potential Site AOCs is presented below.

5.2 Potential Areas of Concern

5.2.1 Existing Building Perimeters

Lead-Based Paint

As stated previously, the permanent classrooms were constructed between 1947 and 1953 and based on historical practices, lead-based paint may have been used on the structures. There was also a smaller historical building at the location of the current Taft Child Development Center from about 1963 to 1974 but appears to have been placed on asphalt, and given the size and relatively short use, was very likely a portable building. Aerial photographs indicate the Site is fully paved by 1953, except for a playground on the southwest side of the Site. In the early 1980s, small areas around some of the buildings were landscaped with trees and shrubs, indicating the pavement had been removed, exposing surface soils.

Direct deposition of lead-based paint onto exposed surface soils via flaking may have occurred at the unpaved landscaped areas between the early 1980s and the present in areas of exposed soil. Historically exposed soil areas, that are now paved, may also have been impacted by lead-based paint.

Based on this evaluation, existing building perimeters with adjacent exposed soils are considered potential areas of concern for lead-based paint. Lead-based paint was banned in 1993 therefore buildings newer that 1993 would not be expected to have this concern. At this Site this includes only the building used as a Faculty Lounge. The building adjacent to the west side of the planned lunch shelter which was placed in 1998 or later, and that area was paved prior to the placement of that building.

PCBs

Window caulking and glazing have been known to contain PCBs for buildings constructed or renovated between 1950 and 1979. Construction of the permanent classroom structures (between 1947 and 1953) predates use of PCBs in window caulking/glazing; however, it is

possible that some of the glass and/or window frames were repaired or replaced during the period of PCB use in caulking/glazing. The perimeters of these buildings were fully paved by 1953 with no pavement removals that exposed soils except around the Faculty Lounge building.

A smaller historic building (circa 1963-1974) was present in the current location of the existing Taft Child Development Center. This building appears to have been placed on asphalt, and given its relatively short use, was very likely a portable building.

Based on this evaluation only exposed soils in the unpaved and landscaped areas are considered potential areas of concern for PCBs.

OCPs/Arsenic

Based on historical practices prior to 1988 building perimeters may have been treated with OCPs (e.g., termiticides and/or insecticides, including Chlordane®), and herbicides possibly containing arsenic, either through direct-surface application, or injection into subsurface soils.

Based on this evaluation, all current or previous suspected exposed soil areas around building perimeters prior to 1988 are considered potential areas of concern for surficial application of OCPs and arsenic-containing herbicides. This applied to the Faculty Lounge building only. The other building perimeters may also have deeper injected OCPs. Some of the buildings have covered walkways that are at least 8 feet wide and covered in concrete followed by pavement. Along the covered walkways sides of those buildings, it is very unlikely that termiticides were injected and therefore OCPS are not a concern in deeper soils.

The Taft Child Development Center was installed at the Site in 1999 which post-dates the banning of OCPs in 1988. Therefore, OCP and arsenic impacts to exposed soils on the north and east sides of this building are not a concern from this application. The garden area was established in 1963 and therefore residual concentrations of OCPs and arsenic are a concern.

5.2.2 Garden/Outdoor Classroom Area

OCPs/Arsenic

The garden near the Outdoor Classroom building appears to have been constructed on the northeastern side of the Site (east of the Taft Child Development Center) by 1963. Based on this timeline, OCP and/or arsenic may have impacted exposed soils in the garden areas from pest and weed control compounds and remain present from the earlier gardening activities. No lead-based paint residues would be expected around the building perimeter or in the garden area given the 1999 date of building installation.

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5.2.3 Site Soils – Naturally-Occurring Asbestos

Naturally-Occurring Asbestos

The Site is located approximately 1.23 miles north-northwest of Encinal School at 181-195 Encinal Avenue, in Atherton, California. A PEA was conducted at the Encinal School in 2008 that involved collection of soil samples for NOA analyses due to the school's proximity (i.e., within the 10-mile radius that triggers sampling) to ultramafic rocks at localized areas in the Coastal Range to the west. In that PEA, the DTSC agreed to streamline the NOA investigation by including NOA assessments performed at Oak Knoll School and Hillview School. A total of 15 soil samples were collected between Encinal School and Oak Knoll School from soil borings and trenches. The samples were analyzed for asbestos using Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM).

The results of that investigation indicated detectable asbestos fibers in seven samples, of which only two had concentrations above 0.01 percent, and those samples were reportedly collected from surface soils believed to have been imported fill. Based on the results of that sampling, the DTSC concurred with the recommendation to remove the surface fill, and no further investigation was required. The DTSC approved the PEA in correspondence dated August 21, 2008 (DTSC, 2008).

The Taft Community School is located farther east from the Coastal Range than Encinal and Oak Knoll Schools, therefore, the likelihood of greater NOA in native soils is low, therefore NOA is not considered a Site contaminant of concern and sampling for NOA is not recommended.

5.2.4 Electrical Transformer

There is one pad-mounted electrical transformer within the Site area. The transformer is located on a concrete pad that would provide some protection from impacting soil in the event of a prior release of transformer oil. Although no leaks were observed, it is possible that PCB-containing oil may have leaked onto soils around the transformer. PG&E has been contacted to determine if they have records of the transformer possibly containing PCBs but a response was not received by the time this draft Work Plan was produced.

6.0 SAMPLING AND ANALYSIS

This section of the PEA Workplan presents the sampling objective, and the proposed sampling locations, rationales, and analyses.

6.1 Sampling Objective

The objective of the field investigation is to determine if contaminants are present at the Site that could represent potential health risks for the planned future school uses. The data obtained will be used to evaluate this risk should contaminants be identified, and to evaluate if response actions could render the Site compliant with current school-use standards.

6.2 Sampling Locations, Rationale, and Analyses

The potential areas of environmental concern identified previously require sampling to investigate the possible presence of contamination at the Site. Proposed sample locations and rationales for sampling at each area of concern, sample frequencies, approximate sample depths, proposed analyses, and laboratory reporting limits are summarized in Table 1. Sample locations are shown on Figure 4. The laboratory reporting limits included in Table 1 are sufficiently low for use in an evaluation of health risk.

6.2.1 Existing Building Perimeters

The perimeters of most of the buildings were paved soon after construction though some pavement was removed in the early 1980s, as described in Section 5.2.1. Even with pavement to protect the soil there is a concern related to injection of termiticides around the perimeter of the buildings except where a covered walkway exists. In areas of exposed soils and older buildings, there is a possibility of lead-based paint impacts, surface applications of OCPs and arsenic, and PCBs from windows glaze and caulking.

To evaluate potential environmental concerns associated with exposed soils at existing and previous building perimeters, surficial soil samples will be collected from 0 to 0.5 feet within 1 foot from select outside walls of the existing older structures, as shown on Figure 4. To evaluate deeper soils for injection of OCPs, soil samples will be collected from 2 to 2.5 feet bgs at the same locations as the surface samples, and from paved areas where termiticides may have been injected except where covered walkways are present.

Based on this analysis, near-surface and deeper soil samples will be collected at 11 locations along building perimeters (Figure 4). Samples will be collected:

- At a depth of 0 to 0.5 foot bgs in areas where soil is exposed (BP-1 and B-2)
- At a depth of approximately 2.0 to 2.5 feet bgs at all locations.

All near-surface samples collected from exposed soils will be analyzed for OCPs (EPA Test Method 8081), arsenic (EPA Test Method 6010B), lead (EPA Method 6010B), and PCBs (EPA Method 8082).

The deeper soil samples will be collected from a depth of 2 to 2.5 feet bgs, and would be analyzed for OCPs only (EPA Method 8081).

6.2.2 Garden/Outdoor Classroom

To evaluate potential environmental concerns at the garden/outdoor classroom, soil samples will be collected at two locations (SS-1 and SS-2)(Figure 4). Near-surface soil samples will be collected at an approximate depth of 0 to 0.5-foot bgs. The samples will be analyzed for OCPs (EPA Test Method 8081), and for arsenic (EPA Test Method 6010B).

6.2.3 Electrical Transformer

A pad-mounted transformer is located on the northern end of the Site, as shown in Figure 2. PG&E has been contacted to determine if they have records of the transformer possibly containing PCBs but a response was not received by the time this draft Work Plan was produced. To evaluate the potential of historical leaks of PCB-containing oil, one near-surface soil sample (T-1) would be collected at the transformer at a depth of 0 to 0.5 foot bgs in the area directly opposite the transformer access doors where soil is exposed (Figure 4). The sample will be analyzed for PCBs (EPA Test Method 8082). This sampling will not be done if PG&E can document the lack to PCBs ever used in this transformer.

6.3 Sample Collection Methods

This section describes the soil sampling methods to be used to evaluate the potential environmental concerns previously described. Included are descriptions of the sampling equipment and methods of sampling, including equipment decontamination. Quality assurance/quality control (QA/QC) practices are described in Section 7.0.

6.3.1 Administrative Activities

Before sampling commences, a field work notice will be delivered to residences and businesses within line of sight at least 3 to 5 days prior to the onset of the PEA sampling. An example of the field work notice is included in Appendix C. The field work notice will also be posted around the perimeter of the Site throughout the sampling activities.

Daily field notes documenting the sampling activities and any issues encountered during the sampling will be prepared. Laboratory chain-of-custody forms serve as records of samples collected by date and time and will be prepared each day. Photos of any unusual subsurface conditions will be taken.

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6.3.2 Sample Locating

Each of the sample locations will be measured in the field using a tape measure and identified on a scaled map or aerial photo of the Site. Samples/borings in open areas will be located and digitally stored using a handheld GPS unit.

6.3.3 Near-Surface Soil Sampling

New, disposable gloves will be worn by field personnel during all sampling activities and will be changed between sample locations. Used gloves will be disposed accordingly.

Near-surface soil samples will be collected by hand (scooping) from the upper 6 inches of soil using new, laboratory--supplied 4-ounce or 9-ounce glass jars. If the soils are too hard to safely scoop with a glass jar, they will be broken up using a decontaminated pick or shovel. Decontamination procedures include washing equipment in a liquinox and water bath to remove all soil particles, followed by double-rinsing with distilled water. The small quantity of decontamination water will be discharged onto the ground surface adjacent to each of the sample locations. After sample collection, Teflon™-lined lids will be securely fastened and the jar labeled with a unique sample identification number.

The samples will then be placed in an insulated cooler chilled to 4 degrees +/- 2 degrees Celsius and hand-delivered by MCI personnel under chain-of-custody to Torrent Laboratory, a California-State certified analytical laboratory. A copy of their State-certification is included in Appendix E.

6.3.4 Deeper Soil Sampling

New, disposable gloves will be worn by field personnel during all sampling activities and will be changed between sample locations. Used gloves will be disposed accordingly.

Soil samples collected from depths deeper than 6 inches will be collected using direct-push drilling equipment. Samples will be collected using stainless steel push rods fitted with plastic liners. Once the desired depth is reached, the rod/liner will be extracted and the targeted sample interval will be cut from the liner, capped with Teflon™ film, fitted with a tight-fitting cap, and labeled with a unique sample identifier.

If a hand auger is utilized, it will be equipped with a 3 inch-diameter stainless steel auger head, and the boring will be advanced to a depth of approximately 2.0 feet bgs. A slide hammer will be used to advance a 2.5-inch diameter, 6-inch long core sampler with a stainless-steel liner. Once the sample is collected, the liner will be capped with Teflon™ film, fitted with a tight-fitting cap, and labeled with a unique sample identifier. The stainless-steel liners will then be placed in plastic bags for temporary storage in an insulated cooler. Non-dedicated sampling equipment

(e.g., drill shoe and slide hammer) will be decontaminated prior to and in between sample locations using the procedures described previously to mitigate the potential for cross-contamination between samples.

The samples will then be placed in an insulated cooler chilled to 4 degrees +/- 2 degrees Celsius and hand delivered by MCI personnel under chain-of-custody to a California-certified analytical laboratory.

6.4 Chain-of-Custody

Chain-of-Custody (COC) forms will be used to document sample collection and transportation to the laboratory for analysis. All samples will be accompanied by a COC documenting the unique sample identification number, date and time collected, number of samples for analysis, type of container and the requested laboratory analyses.

6.5 Field Variances

The DTSC will be notified in the event of variances to the workplan due to field conditions or other modifications to the sampling strategies. Any variances in the workplan will be documented in the PEA Report.

7.0 QUALITY ASSURANCE/QUALITY CONTROL

The following QA/QC procedures will be employed in both the field and the laboratory. QA/QC samples include the collection of field duplicate samples.

7.1 Field Procedures

Field QA/QC procedures will be performed at the Site and consist of the following measures:

- Chain-of-Custody (COC) forms will be used for sample submittal to the laboratory;
- Field duplicates – Approximately 10% of the soil samples will be split in the field by MCI personnel and submitted as "blind" duplicates to the laboratory for analysis as individual discrete soil samples.

7.2 Duplicate Samples

Duplicate soil samples will be analyzed to evaluate the analytical procedures and methods employed by the laboratory. Approximately one duplicate soil sample will be collected per 10 soil samples collected. Duplicate soil samples will be collected by homogenizing a sample in an 8-

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ounce jar bar shaking and the sample then placed into two 4-ounce jars. The jars will be labeled with unique sample identification numbers. The blind duplicate samples will be submitted to the laboratory for analyses and analyzed for each chemicals of potential concern. The analytical results from the original and duplicate samples will be evaluated and the higher of the two results will be used for statistical analysis and used in the risk assessment.

8.0 HEALTH AND SAFETY

A site-specific health and safety plan has been prepared and is included in Appendix D. The health and safety equipment will include Level D personal protective equipment (PPE): disposable, single-use nitrile gloves at each sampling location to minimize the potential for contaminant transfer and personnel exposure, hard hat, protective eye wear, OSHA-rated safety vest, and safety boots.

The field sampling will likely be conducted in the spring, therefore, heat exposure is not likely a significant concern. In the unexpected event of high temperatures, field personnel will be conscious of the signs and symptoms of heat stress. Personnel performing the sampling will carry water and take occasional breaks to rest in the shade and to rehydrate.

An emergency first aid kit will be on Site at all times. Should an incident occur that requires medical attention, the field personnel will have cell phones and will call 911 for medical assistance.

Personnel performing the sampling will be 40-hour OSHA HAZWOPER trained, with current annual refresher training and annual medical monitoring.

A list of emergency contacts is shown in the table below. A map with a narrative describing the route to the nearest emergency room is shown on Figure D-1, attached to the HASP (Appendix D).

Mr. John Baker

Superintendent
750 Bradford Street
Redwood City, California 94063
(650) 482-2230 (office)
(650) 482-2200 (main office)
Email: jbaker@rcsdk8.net

Mr. Tom McCloskey, Project Manager

McCloskey Consultants, Inc.
420 Sycamore Valley Road West
Danville, California 94526
(925) 786-2667(cellular)
Email: Tom@mccloskeyconsultants.com

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9.0 DETERMINING DATA USABILITY FOR RISK ASSESSMENT

The laboratory analytical data collected from this Site will be reviewed for data quality and usability in a risk assessment (DURA), should one be needed. The DURA process involves assessing overall data quality and the usability of data for performing a quantitative risk and selection of chemicals of potential concern (COPCs) for the Human Health Screening Evaluation (HHSE) described in the next section. Data determined to be unusable will not be used in the HHSE. Data identified as usable through this process will be evaluated for chemical distribution.

As required by USEPA guidance, the analytical methods to be used are capable of detecting concentrations at or below many regulatory threshold concentrations, as shown in Table 1. The analytical methods for COPCs to be used at the Site were identified in SW846, which are acceptable methodologies for all COPCs that could carry through in the HHSE. The analytical data will be reviewed to determine if sufficiently low detection limits were achieved. The data will also be reviewed for flagging codes placed on the data by the laboratory, in accordance with their internal QA/QC procedures. If flagging codes are present, they will be reviewed to determine if the data are usable in the HHSE, should one be performed. Any flagging codes in the laboratory analytical reports will be discussed in the PEA Report.

10.0 HUMAN HEALTH SCREENING EVALUATION

A HHSE will be performed based on the analytical results from the PEA sampling, provided the data are determined to be usable, as described above. The COPCs will be evaluated using the DTSC's Human Health Risk Assessment (HHRA), Note 3 prior to the application of the USEPA Regional Screening Levels (RSLs) (USEPA, 2017). We understand from the DTSC that all OCPs need to be accounted for and screened via a risk assessment on a chemical specific basis. If multiple OCPs (or other COPCs) are detected in any sample, but the concentrations are less than their concentration detailed in the HHRA Note 3 or respective USEPA RSLs, a Cumulative Health Risk and Hazard Index will be calculated. The Cumulative Risk Analysis would be done separately for cancer and non-cancer risks.

The Office of Environmental Health Hazard Assessment (OEHHA) modified the California Human Health Screening Level (CHHSL) for lead to 80 milligrams per kilogram (mg/kg). Based on the CHHSL modification, DTSC will be making lead cleanup decisions based on the 95% Upper Confidence Limit (UCL) of lead levels left in place. DTSC recommends the proposed cleanup goal for total lead in soil of 80 mg/kg based on the 95% UCL. Detected arsenic concentrations will be compared to naturally-occurring concentrations, and the analysis may also involve a 95% UCL, as well as other statistical methods including USEPA proUCL to distinguish between naturally-occurring concentrations from anthropogenic sources.

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11.0 REPORTING

The results of this soil quality investigation will be included in a PEA report in the general format as described in the Cal/EPA *PEA Guidance Manual* required by the DTSC for Site approval (DTSC, 2013). This report will be submitted as a draft to the DTSC, simultaneously with the required 30-day public review comment period. The District's current intention is to make the PEA available for public review by Option A (Ed. Code § 17213.1, subdivision (a)(6)(B)), where the PEA review is combined with a California Environmental Quality Act (CEQA) review. Review comments will be reviewed and responded to prior to submittal of the final PEA Report after the review period has ended.

12.0 PROPOSED WORK SCHEDULE

Provided below is a schedule of milestones to perform the scope of work.

MCI Submittal of Draft PEA Workplan	Feb 27, 2018
DTSC Review and Approval of PEA Workplan (30 days)	March 27, 2018
MCI Revision of PEA Workplan	April 10, 2018
DTSC Approval of Revised PEA Workplan	April 24, 2018
PEA Field Work Notification	May 1, 2018
Conduct Soil Sampling	May 15, 2018
Laboratory Analysis and Draft PEA Report Preparation	June 30, 2018
Public Comment Period (30-days) and Public Hearing	July 1 – August 1, 2018
Receive DTSC and Public Comments	August 15, 2018
Response to DTSC Comments and Issue Revised PEA	August 31, 2018
DTSC Review and Approval of PEA	September 15, 2018

13.0 REFERENCES

Cal/EPA, Revised September 24, 2004. *Interim Guidance Naturally-Occurring Asbestos (NOA) at School Sites.*

Cal/EPA, January 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties.*

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Cal/EPA, September 12, 2006. *Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Results of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers.*

Cal/EPA, March 21, 2007. *Arsenic Strategies, Determination of Arsenic Remediation, Development of Arsenic Cleanup Goals for Proposed and Existing Shool Sites.*

Cal/EPA, April 30, 2008. *Interim Guidance for Sampling Agricultural Properties (Third Revision).*

Cal/EPA, September 2009. *Revised California Human Health Screening Levels for Lead.*

California Department of Conservation, 2000. *A general Location Guide for Ultramafic Rocks in California – Areas More Likely to Contain Naturally Occurring Asbestos.*

Geological Survey, 2014. *Radon Potential Map for San Mateo County, California, Special Report 226.*

Department of Toxic Substances Control EnviroStor website. http://www.envirostor.dtsc.ca.gov/public.

Department of Toxic Substances Control, July 18, 2008. *Approval of Preliminary Environmental Assessment Report, Encinal Elementary School Site, 181 Encinal Avenue, Atherton.*

Department of Toxic Substances Control, Revision October 2013. *Preliminary Endangerment Assessment Guidance Manual.*

Environmental Data Resources, June 5, 2017. *Environmental Data Resources Radius Map™ Report with Geocheck®, Taft Community School, 903 Tenth Avenue, Redwood City, CA 94063.* June 5.

McCloskey Consultants, Inc., 2017. *Phase I Environmental Site Assessment, Taft Community School, 903 10th Avenue, Redwood City, CA 94063.*

Google Earth, 2018. Street View and Aerial Photographs.State Water Resources Control Board GeoTracker website. http://www.geotracker.swrcb.ca.gov.

United States Environmental Protection Agency Regional Screening Levels, January 2018.

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Table 1

Sampling and Analysis Summary

Taft Community School

903 10th Avenue

Redwood City, California

Areas of Concern			Building Perimeter Sampling		Shallow Soil	Transformer
Sample Identifier			BP-1 and BP-2	BP-3 through BP-11	SS-1 and SS-2	T-1
Sampling Depth (fbg)			0-0.5' and 2.0 -2.5	2.0-2.5'	0-0.5'	0-0.5'
Laboratory Method	**Analytes**	**R.L**	**Discrete**	**Discrete**	**Discrete**	**Discrete**
6010B	Arsenic	1.0	x		x	
6010B	Lead	1.0	x		x	
8081A	4,4' DDD	0.002	x	x	x	
8081A	4,4' DDE	0.002	x	x	x	
8081A	4,4' DDT	0.002	x	x	x	
8081A	Aldrin	0.002	x	x	x	
8081A	alpha-BHC	0.002	x	x	x	
8081A	alpha-Chlordane	0.002	x	x	x	
8081A	beta-BHC	0.002	x	x	x	
8081A	Technical Chlordane	0.02	x	x	x	
8081A	delta-BHC	0.002	x	x	x	
8081A	Dieldrin	0.002	x	x	x	
8081A	Endosulfan I	0.002	x	x	x	
8081A	Endosulfan II	0.002	x	x	x	
8081A	Endosulfan sulfate	0.002	x	x	x	
8081A	Endrin	0.002	x	x	x	
8081A	Endrin aldehyde	0.002	x	x	x	
8081A	Endrin Keytone	0.002	x	x	x	
8081A	gamma-BHC	0.002	x	x	x	
8081A	gamma-Chlordane	0.002	x	x	x	
8081A	Heptachlor	0.002	x	x	x	
8081A	Heptachlor epoxide	0.002	x	x	x	
8081A	Methoxychlor	0.005	x	x	x	
8081A	Toxaphene	0.1	x	x	x	
8082	PCBs	0.1 to 0.2	x			x

fbg	Feet below grade
R.L.	Estimated Reporting Limits, concentrations in milligrams per kilogram (mg/kg) or parts per million (ppm), unless otherwise specified
x	Sample to be analyzed for constituent indicated
PCBs	Polychlorinated biphenyls

FIGURES

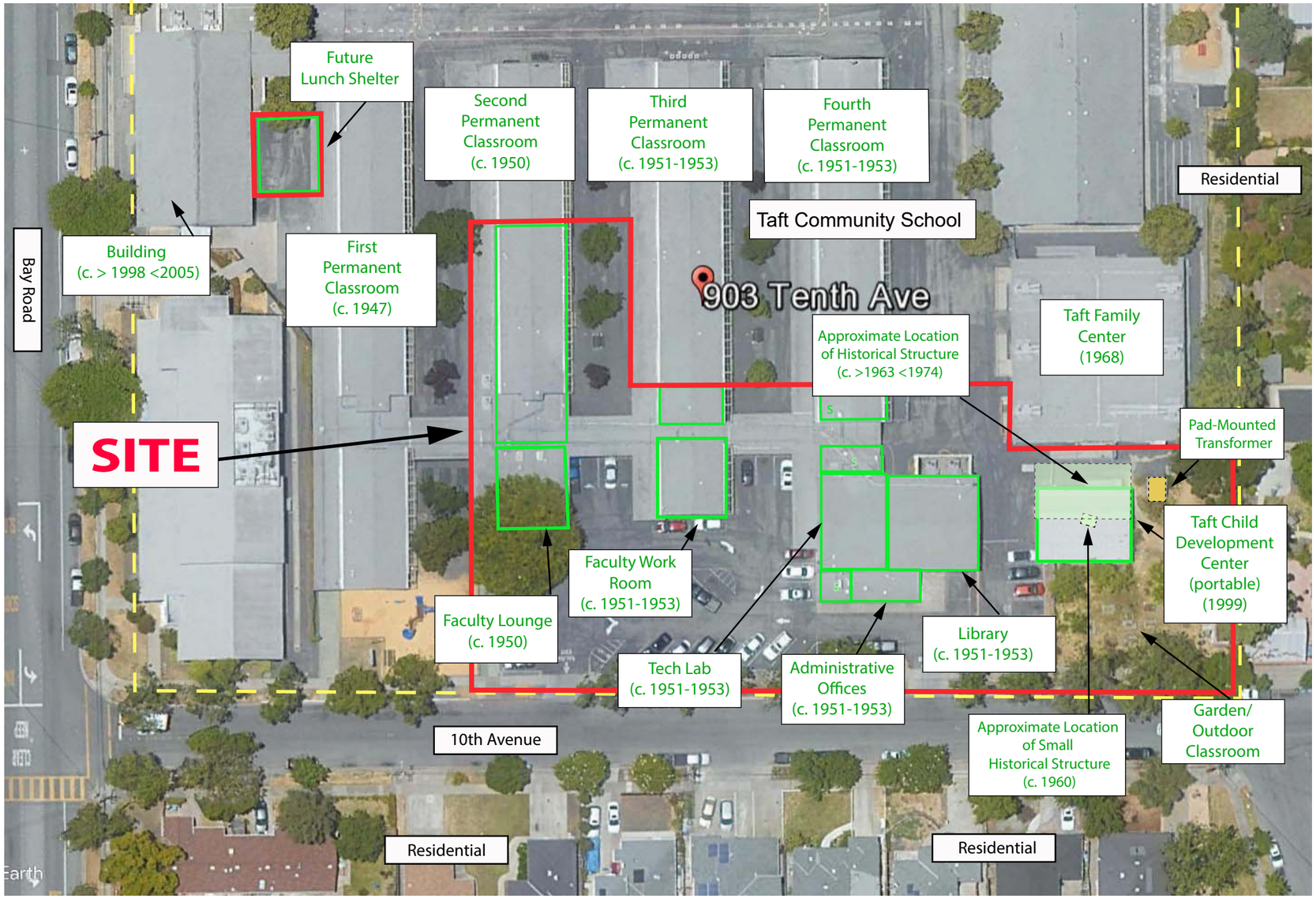
DRAFT

Vicinity Map

Taft Community School
903 10th Avenue
Redwood City, California

FIGURE 1

McCloskey Consultants



Source: Google Earth Pro, 2018

LEGEND:

- Approximate Parcel Boundary
- Approximate Site Boundary

Notes:
c. = Approximate construction date based on historical aerial photographs and interviews.
s = Storage

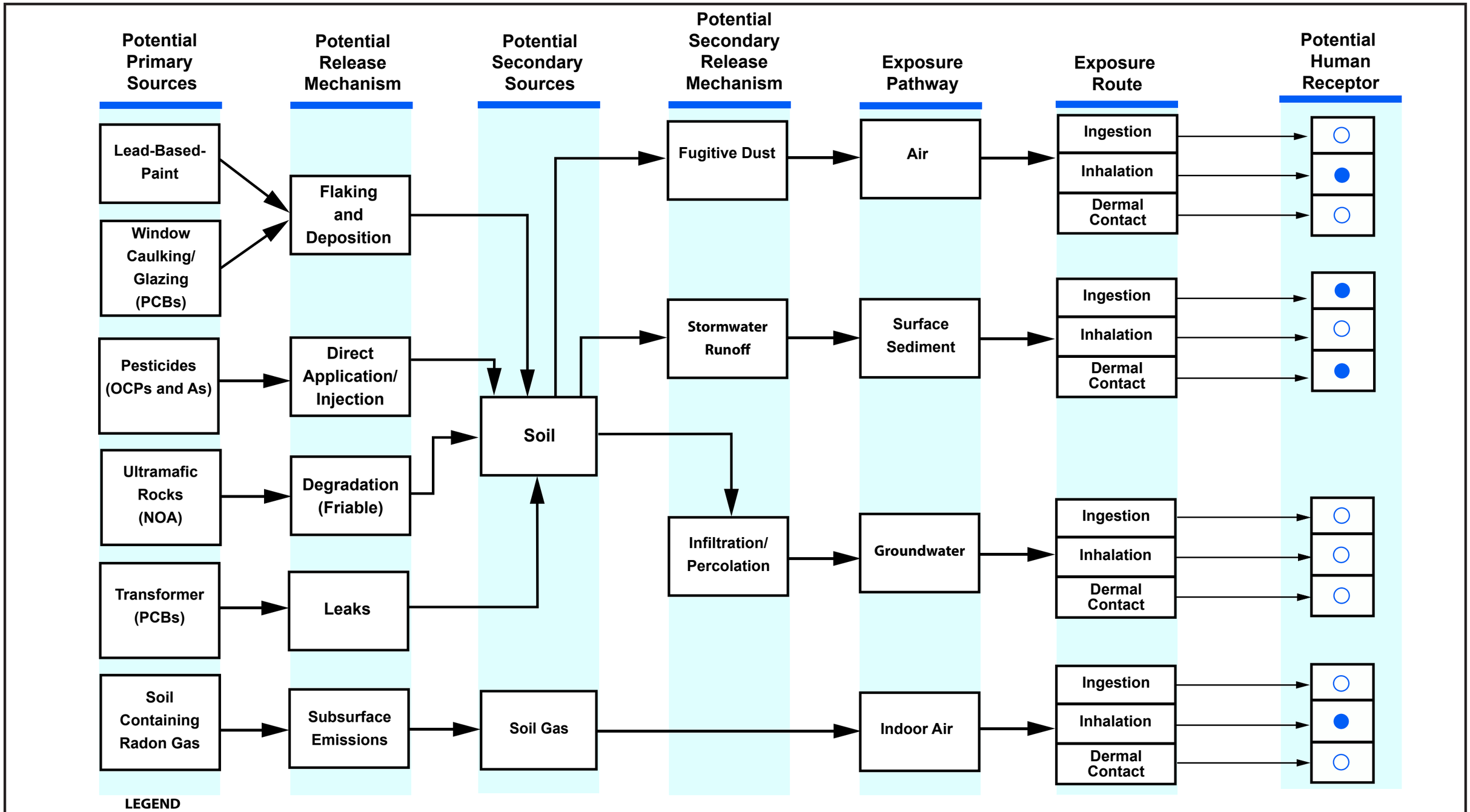
0 30 60
Approximate Scale in Feet

Drawn by: TMH

McCloskey Consultants

Site Plan
Taft Community School Expansion
903 10th Avenue
Redwood City, California

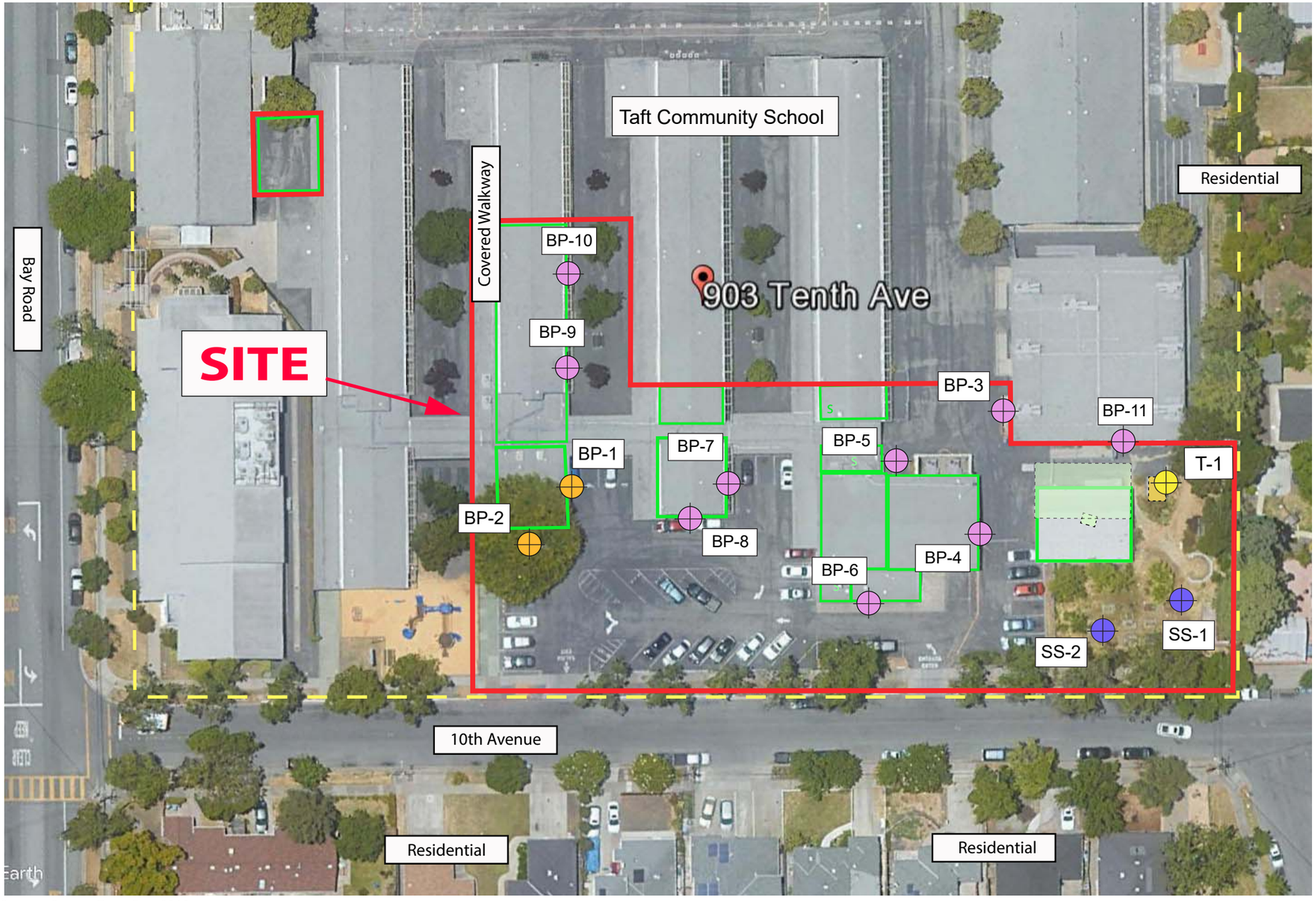
FIGURE 2



Conceptual Site Model
John Gill School Expansion
555 Avenue Del Ora
Redwood City, California

McCloskey Consultants

FIGURE 3



Source: Google Earth Pro, 2018

LEGEND:

- Approximate Parcel Boundary
- Approximate Site Boundary
- BP-1 — Building Perimeter Sample Location - Unpaved (OCPs, Lead, Arsenic, PCBs)
- BP-7 — Building Perimeter Sample Location - Asphalt- and/or Concrete-Paved (OCPs)
- SS-1 — Shallow Soil Sample Location (OCPs, Arsenic)
- T-1 — Transformer Sample Location (PCBs)

Notes:
OCPs = Organchlorine Pesticides
PCBs = Polychlorinated Biphenyls

0 30 60
Approximate Scale in Feet

Drawn by: TMH

McCloskey Consultants

PEA Sampling Plan
Taft Community School Expansion
903 10th Avenue
Redwood City, California

FIGURE 4

Appendix A

Regulatory Database Report

DRAFT

Taft Community School
903 Tenth Avenue
Redwood City, CA 94063

Inquiry Number: 4955887.2s
June 05, 2017

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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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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

903 TENTH AVENUE
REDWOOD CITY, CA 94063

COORDINATES

Latitude (North):	37.4810080 - 37° 28' 51.62''
Longitude (West):	122.1944250 - 122° 11' 39.93''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	571225.2
UTM Y (Meters):	4148334.5
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640620 PALO ALTO, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140608
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
903 TENTH AVENUE
REDWOOD CITY, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	REDWOOD CITY USD / T	903 10TH AVE	CA HAZNET		TP
A2	TAFT SCHOOL	903 10TH AVE	CA HAZNET		TP
A3	REDWOOD CITY USD TAF	TENTH AVE AT BAY RD	FINDS, ECHO		TP
A4	RCSD - TAFT ELEMENTA	903 10TH AVE	CA HAZNET		TP
A5	REDWOOD CITY USD TAF	TENTH AVE AT BAY RD	RCRA-SQG		TP
6	FARM	27401 HWY 9	CA SWEEPS UST, CA San Mateo Co. BI	Higher	50, 0.009, SW
7	EAST WEST AUTO WORKS	14 YARNALL PL	EDR Hist Auto	Lower	610, 0.116, NE
B8	5TH AVE 76	844 5TH	CA San Mateo Co. BI	Higher	773, 0.146, West
B9	UNION OIL SS# 3810	844 5TH AVE	CA HIST UST	Higher	773, 0.146, West
B10	BAY ROAD UNOCAL 76 #	844 5TH	CA San Mateo Co. BI	Higher	773, 0.146, West
B11	CONOCO PHILLIPS #253	844 FIFTH AVE	CA HIST UST, CA HAZNET	Higher	773, 0.146, West
B12	UNOCAL #3810	844 5TH AVE	CA UST	Higher	835, 0.158, West
B13	UNOCAL #3810	844 5TH	CA LUST, CA HIST UST	Higher	835, 0.158, West
B14	UNOCAL STATION #3810	844 5TH AVENUE	CA LUST, CA HIST CORTESE	Higher	835, 0.158, West
B15	7-ELEVEN INC. STORE	895 5TH	CA San Mateo Co. BI	Higher	878, 0.166, West
C16	PAW PRINTS	3166 BAY	CA San Mateo Co. BI	Higher	1058, 0.200, West
D17	JOES FIAT SERVICE	819 5TH	CA San Mateo Co. BI	Higher	1129, 0.214, West
D18	FIFTH AVENUE SERVICE	795 005TH AVE	CA FID UST	Higher	1149, 0.218, WSW
D19	AT&T REDWOOD CITY	3175 SPRING ST	CA SWEEPS UST, CA FID UST	Higher	1201, 0.227, WSW
D20	AT&T CORP. - P3066	3175 SPRING	CA LUST, CA San Mateo Co. BI	Higher	1201, 0.227, WSW
D21	AT&T COMUNICATIONS	3175 SPRING	CA AST	Higher	1201, 0.227, WSW
D22	AT&T CORP - P3066	3175 SPRING ST	CA AST	Higher	1201, 0.227, WSW
D23	AT&T CORP. - P3066	3175 SPRING ST	CA UST	Higher	1201, 0.227, WSW
D24	REDWOOD CITY 4A	3175 SPRING ST	CA HIST UST	Higher	1201, 0.227, WSW
D25	AT&T	3175 SPRING STREET	CA LUST, CA HIST CORTESE	Higher	1201, 0.227, WSW
D26	PACIFIC BELL	3175 SPRING STREET	RCRA-SQG, FINDS, ECHO	Higher	1201, 0.227, WSW
D27	5TH AVE SERVICE	795 5TH	CA LUST, CA SWEEPS UST, CA HIST CORTESE	Higher	1233, 0.234, WSW
D28	VALERO	795 5TH	CA San Mateo Co. BI	Higher	1233, 0.234, WSW
D29	K & A PETROLEUM INC/	795 5TH AVE	CA UST	Higher	1233, 0.234, WSW
D30	FIFTH AVENUE SERVICE	795-FIFTH AVE	CA HIST UST	Higher	1233, 0.234, WSW
D31	5TH AVE SERVICE	795 5TH	CA LUST, CA HIST UST	Higher	1233, 0.234, WSW
E32	TRACE ANALYTICAL INC	3517 EDISON	CA San Mateo Co. BI	Higher	1233, 0.234, SSW
D33	PORTABLE WATER SUPPL	3184 SPRING	CA San Mateo Co. BI	Higher	1234, 0.234, WSW
D34	WELTER STENCIL & ENG	793 5TH	CA San Mateo Co. BI	Higher	1237, 0.234, WSW
E35	DIETER'S GERMAN CAR	3511 EDISON WAY	CA San Mateo Co. BI, CA HAZNET	Higher	1253, 0.237, SSW
E36	JOHN ZENDER CONSULTI	3507 EDISON	CA San Mateo Co. BI	Higher	1274, 0.241, SSW
D37	REMCO ENTERPRISES IN	3160 SPRING	CA San Mateo Co. BI	Higher	1298, 0.246, WSW
C38	ICE OASIS	3140 BAY	CA San Mateo Co. BI	Higher	1300, 0.246, West
39	EDISON TECHNOLOGY PA	3477-3522 EDISON WAY	CA LUST, CA SLIC	Higher	1380, 0.261, SSW

MAPPED SITES SUMMARY

Target Property Address:
903 TENTH AVENUE
REDWOOD CITY, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	GILLIS & LANE INC.	830 2ND	CA LUST, CA HIST CORTESE	Higher	1747, 0.331, West
F41	PIC	3004 SPRING	CA LUST, CA HIST CORTESE	Higher	1879, 0.356, West
F42	PIC	3004 SPRING	CA LUST, CA AST, CA Notify 65	Higher	1879, 0.356, West
G43	KOBLICK SUPPLY	2950 BAY	CA LUST, CA SWEEPS UST, CA HIST CORTESE	Lower	2000, 0.379, WNW
G44	MR. HAUL	867 SECOND AVENUE	CA SWF/LF	Higher	2025, 0.384, West
G45	PACIFIC BELL	867 2ND AVENUE	RCRA-SQG, CA LUST, CA HIST UST, FINDS, ECHO, CA...	Higher	2025, 0.384, West
H46	MENLO PARK FIRE DIST	4101 FAIR OAKS	CA San Mateo Co. BI, CA HIST CORTESE	Higher	2050, 0.388, SSE
H47	MENLO PARK FIRE DIST	4101 FAIR OAKS	CA LUST	Higher	2052, 0.389, SSE
48	FORMER GAS STATION	955 MARSH ROAD	CA Notify 65	Higher	2068, 0.392, ESE
49	AMPEX DATA SYSTEMS C	1228 DOUGLAS AVE	RCRA-SQG, CA LUST, CA SLIC, FINDS, ECHO, CA EMI,...	Lower	2099, 0.398, NW
G50	MEWES PROPERTY	2906 BAY	CA LUST	Lower	2203, 0.417, WNW
I51	SEQUOIA MILL	2575 EAST BAYSHORE R	CA LUST, CA HIST CORTESE	Lower	2224, 0.421, NNW
I52	SEQUOIA MILL	2575 E BAYSHORE RD	CA LUST, CA HIST UST	Lower	2224, 0.421, NNW
J53	DELUCA FOODS	832 BARRON	CA LUST, CA HIST CORTESE	Higher	2283, 0.432, West
J54	R A DE LUCA	832 BARRON AVE	CA LUST, CA SWEEPS UST	Higher	2283, 0.432, West
K55	DELUCCHI PROPERTY	995 MARSH	CA LUST	Higher	2321, 0.440, ESE
K56	DELUCCHI PROPERTY	995 MARSH ROAD	CA LUST, CA HIST CORTESE	Higher	2321, 0.440, ESE
57	MIDLAND PACIFIC CORP	3536 HAVEN	CA LUST, CA HIST CORTESE	Lower	2359, 0.447, NE
58	SEARS MERCHANDISE GR	1325 DOUGLAS	CA LUST, CA HIST CORTESE	Lower	2371, 0.449, NW
59	REDWOOD MOTOR COURT	3706 ROLISON ROAD	CA LUST	Lower	2467, 0.467, ENE
K60	CHEVRON	3805 BOHANNON	CA LUST, CA SWEEPS UST, CA San Mateo Co. BI, CA...	Higher	2476, 0.469, ESE
K61	CHEVRON 9-0754	3805 BOHANNON	CA LUST	Higher	2495, 0.473, ESE
K62	BOHANNON PARK	990 MARSH	CA LUST	Higher	2501, 0.474, ESE
K63	DELTA AUTO REPAIR	990 MARSH	CA LUST, CA San Mateo Co. BI, CA HIST CORTESE	Higher	2501, 0.474, ESE
L64	GENERAL CIRCUITS INC	3549 J HAVEN AVENUE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-SQG, CA...	Lower	2543, 0.482, NE
M65	CALTRANS DISTRICT 4	2501 E BAYSHORE BLVD	RCRA-SQG, CA LUST, FINDS, ECHO	Lower	2575, 0.488, NW
M66	CALTRANS MAINTENANCE	2501 EAST BAYSHORE R	CA LUST, CA SLIC, CA HIST CORTESE	Lower	2575, 0.488, NW
M67	CALTRANS-REDWOOD CIT	2501 BAYSHORE	CA LUST, CA San Mateo Co. BI	Lower	2575, 0.488, NW
68	MARSH ROAD DELI	763 MARSH	CA LUST, CA San Mateo Co. BI, CA HIST CORTESE	Higher	2630, 0.498, SE
L69	GENERAL CIRCUITS INC	3585 HAVEN AVENUE	CA ENVIROSTOR, CA HIST UST, CA San Mateo Co. BI,...	Lower	2763, 0.523, NE
L70	GENERAL CIRCUITS INC	3585 HAVEN AVENUE	SEMS-ARCHIVE, CORRACTS, RCRA-SQG, CA HAZNET	Lower	2763, 0.523, NE
N71	KLIKLOK CO. (BUILDIN	2661 SPRING	CA ENVIROSTOR, CA HIST CORTESE	Higher	3610, 0.684, West
N72	UNKNOWN	860 HURLINGAMES	CA Notify 65	Higher	3618, 0.685, WNW
73	PETERSEN PRECISION E	611 BROADWAY STREET	CA ENVIROSTOR	Lower	3935, 0.745, WNW
74	SEIBERT, J., MACHINE	119 INDEPENDENCE DR.	CA ENVIROSTOR, CA San Mateo Co. BI	Lower	4584, 0.868, ENE
O75	COORS WEST	890 BROADWAY	CA LUST, CA Notify 65	Lower	4711, 0.892, WNW
O76	TYDEMAN MACHINE WORK	BROADWAY AND CHARTER	CA ENVIROSTOR	Lower	4895, 0.927, WNW
77	STAR TOOL & ENGINEER	860 CHARTER	CA ENVIROSTOR, CA SLIC, CA VCP, CA San Mateo Co....	Lower	4930, 0.934, WNW
78	UNKNOWN	197 FIFTH AVENUE	CA Notify 65	Higher	5030, 0.953, SW

MAPPED SITES SUMMARY

Target Property Address:
903 TENTH AVENUE
REDWOOD CITY, CA 94063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
79	COORS WEST	2700 MIDDLEFIELD ROA	CA Notify 65	Higher	5233, 0.991, WSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
REDWOOD CITY USD / T 903 10TH AVE REDWOOD CITY, CA 94063	CA HAZNET GEPAID: CAC002367511	N/A
TAFT SCHOOL 903 10TH AVE REDWOOD CITY, CA 94063	CA HAZNET GEPAID: CAC002681022 GEPAID: CAC002737007	N/A
REDWOOD CITY USD TAF TENTH AVE AT BAY RD REDWOOD CITY, CA 94063	FINDS Registry ID:: 110008272001 ECHO	N/A
RCSD - TAFT ELEMENTA 903 10TH AVE REDWOOD CITY, CA 94063	CA HAZNET GEPAID: CAC002579346	N/A
REDWOOD CITY USD TAF TENTH AVE AT BAY RD REDWOOD CITY, CA 94063	RCRA-SQG EPA ID:: CAD981678097	CAD981678097

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

CA RESPONSE..... State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

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 SWRCY..... Recycler 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 HIST Cal-Sites	Historical Calsites Database
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
CA DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CA CHMIRS	California Hazardous Material Incident Report System
CA LDS	Land Disposal Sites Listing
CA MCS	Military Cleanup Sites Listing
CA SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees

INDIAN RESERV Indian Reservations
FUSRAP Formerly Utilized Sites Remedial Action Program
UMTRA Uranium Mill Tailings Sites
LEAD SMELTERS Lead Smelter Sites
US AIRS Aerometric Information Retrieval System Facility Subsystem
US MINES Mines Master Index File
ABANDONED MINES Abandoned Mines
UXO Unexploded Ordnance Sites
DOCKET HWC Hazardous Waste Compliance Docket Listing
FUELS PROGRAM EPA Fuels Program Registered Listing
CA BOND EXP. PLAN Bond Expenditure Plan
CA Cortese "Cortese" Hazardous Waste & Substances Sites List
CA CUPA Listings CUPA Resources List
CA DRYCLEANERS Cleaner Facilities
CA ENF Enforcement Action Listing
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 NPDES NPDES Permits Listing
CA PEST LIC Pesticide Regulation Licenses Listing
CA PROC Certified Processors Database
CA UIC UIC Listing
CA WASTEWATER PITS Oil Wastewater Pits Listing
CA WDS Waste Discharge System
CA WIP Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner EDR Exclusive Historic Dry Cleaners

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.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 02/07/2017 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***

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 12/12/2016 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***
GENERAL CIRCUITS INC	***3585 HAVEN AVENUE***	***NE 1/2 - 1 (0.523 mi.)***	***L70***	***122***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: 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.

A review of the RCRA-TSDF list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***

EXECUTIVE SUMMARY

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC BELL	***3175 SPRING STREET***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D26***	***31***

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 01/30/2017 has revealed that there are 7 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KLIKLOK CO. (BUILDIN Facility Id: 41340063 Status: Inactive - Needs Evaluation	***2661 SPRING***	***W 1/2 - 1 (0.684 mi.)***	***N71***	***125***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC Facility Id: 80001670 Status: Refer: EPA	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***
GENERAL CIRCUITS INC Facility Id: 80001497 Status: Inactive - Needs Evaluation	***3585 HAVEN AVENUE***	***NE 1/2 - 1 (0.523 mi.)***	***L69***	***120***
PETERSEN PRECISION E Facility Id: 60001134 Status: No Action Required	611 BROADWAY STREET	WNW 1/2 - 1 (0.745 mi.)	73	127
SEIBERT, J., MACHINE Facility Id: 41350016 Status: Refer: Other Agency	***119 INDEPENDENCE DR.***	***ENE 1/2 - 1 (0.868 mi.)***	***74***	***128***
TYDEMAN MACHINE WORK	BROADWAY AND CHARTER	WNW 1/2 - 1 (0.927 mi.)	O76	131

Facility Id: 41340062
Status: No Action Required

STAR TOOL & ENGINEER ***860 CHARTER*** ***WNW 1/2 - 1 (0.934 mi.)*** ***77*** ***132***
Facility Id: 60002245
Status: Active

State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the CA SWF/LF list, as provided by EDR, has revealed that there is 1 CA SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MR. HAUL	867 SECOND AVENUE	W 1/4 - 1/2 (0.384 mi.)	G44	66
Database: SWF/LF (SWIS), Date of Government Version: 02/13/2017 Facility ID: 41-AA-0181 Operational Status: Active Regulation Status: Notification				

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
UNOCAL #3810	***844 5TH***	***W 1/8 - 1/4 (0.158 mi.)***	***B13***	***17***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Status: Post remedial action monitoring				
UNOCAL STATION #3810	***844 5TH AVENUE***	***W 1/8 - 1/4 (0.158 mi.)***	***B14***	***19***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: 330075 Facility Status: 9- Case Closed Global Id: T0608100591 Global ID: T0608100591				
AT&T CORP. - P3066	***3175 SPRING***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D20***	***26***
Database: LUST REG 2, Date of Government Version: 09/30/2004 Facility Status: Case Closed date9: 9/5/2000				
AT&T	***3175 SPRING STREET***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D25***	***30***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017 Database: LUST, Date of Government Version: 03/13/2017				

Status: Completed - Case Closed
Facility Id: 330016
Facility Status: 9- Case Closed
Global Id: T0608100044
Global ID: T0608100044

5TH AVE SERVICE ***795 5TH*** ***WSW 1/8 - 1/4 (0.234 mi.)*** ***D27*** ***33***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Open - Eligible for Closure
Facility Id: 330039
Facility Status: 8- Verification Monitoring Underway
Global Id: T0608100216
Global ID: T0608100216

5TH AVE SERVICE ***795 5TH*** ***WSW 1/8 - 1/4 (0.234 mi.)*** ***D31*** ***54***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Post remedial action monitoring

EDISON TECHNOLOGY PA ***3477-3522 EDISON WAY*** ***SSW 1/4 - 1/2 (0.261 mi.)*** ***39*** ***58***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Facility Id: 449093
Facility Status: 3B- Preliminary Assessment Underway
Global ID: T10000006237

GILLIS & LANE INC. ***830 2ND*** ***W 1/4 - 1/2 (0.331 mi.)*** ***40*** ***59***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330010
Facility Status: 9- Case Closed
Global Id: T0608100234
Global ID: T0608100234
date9: 12/6/1999

PIC ***3004 SPRING*** ***W 1/4 - 1/2 (0.356 mi.)*** ***F41*** ***61***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 330032
Facility Status: 9- Case Closed
Global Id: T0608100398
Global ID: T0608100398

PIC ***3004 SPRING*** ***W 1/4 - 1/2 (0.356 mi.)*** ***F42*** ***63***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 5/31/1996

PACIFIC BELL ***867 2ND AVENUE*** ***W 1/4 - 1/2 (0.384 mi.)*** ***G45*** ***67***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330011
Facility Status: 9- Case Closed
Global Id: T0608100379

Global ID: T0608100379
date9: 3/22/2001

MENLO PARK FIRE DIST 4101 FAIR OAKS SSE 1/4 - 1/2 (0.389 mi.) H47 71
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330155
Facility Status: 9- Case Closed
Global Id: T0608101001
Global ID: T0608101001
date9: 6/12/1998

DELUCA FOODS ***832 BARRON*** ***W 1/4 - 1/2 (0.432 mi.)*** ***J53*** ***86***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 330088
Facility Status: 9- Case Closed
Global Id: T0608100183
Global ID: T0608100183

R A DE LUCA ***832 BARRON AVE*** ***W 1/4 - 1/2 (0.432 mi.)*** ***J54*** ***87***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 7/28/1999

DELUCCHI PROPERTY 995 MARSH ESE 1/4 - 1/2 (0.440 mi.) K55 88
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 4/8/2003

DELUCCHI PROPERTY ***995 MARSH ROAD*** ***ESE 1/4 - 1/2 (0.440 mi.)*** ***K56*** ***89***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 330050
Facility Status: 9- Case Closed
Global Id: T0608100186
Global ID: T0608100186

CHEVRON ***3805 BOHANNON*** ***ESE 1/4 - 1/2 (0.469 mi.)*** ***K60*** ***97***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 440052
Facility Status: 9- Case Closed
Global Id: T0608100997
Global ID: T0608100997

CHEVRON 9-0754 3805 BOHANNON ESE 1/4 - 1/2 (0.473 mi.) K61 102
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed
date9: 6/15/2004

BOHANNON PARK 990 MARSH ESE 1/4 - 1/2 (0.474 mi.) K62 102
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Case Closed

date9: 2/10/1994

DELTA AUTO REPAIR ***990 MARSH*** ***ESE 1/4 - 1/2 (0.474 mi.)*** ***K63*** ***103***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 440034
Facility Status: 9- Case Closed
Global Id: T0608100075
Global ID: T0608100075

MARSH ROAD DELI ***763 MARSH*** ***SE 1/4 - 1/2 (0.498 mi.)*** ***68*** ***118***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 440048
Facility Status: 9- Case Closed
Global Id: T0608100932
Global ID: T0608100932
date9: 4/21/2000

Lower Elevation	Address	Direction / Distance	Map ID	Page

KOBLICK SUPPLY ***2950 BAY*** ***WNW 1/4 - 1/2 (0.379 mi.)*** ***G43*** ***64***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330038
Facility Status: 9- Case Closed
Global Id: T0608101035
Global ID: T0608101035
date9: 9/27/1990

AMPEX DATA SYSTEMS C ***1228 DOUGLAS AVE*** ***NW 1/4 - 1/2 (0.398 mi.)*** ***49*** ***73***
MEWES PROPERTY 2906 BAY WNW 1/4 - 1/2 (0.417 mi.) G50 82
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330182
Facility Status: 9- Case Closed
Global Id: T0608123266
Global ID: T0608123266
date9: 3/20/2000

SEQUOIA MILL ***2575 EAST BAYSHORE R*** ***NNW 1/4 - 1/2 (0.421 mi.)*** ***I51*** ***84***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Global Id: T0608100682
date9: 9/19/1994

SEQUOIA MILL ***2575 E BAYSHORE RD*** ***NNW 1/4 - 1/2 (0.421 mi.)*** ***I52*** ***85***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017

Facility Id: 330063
Facility Status: 9- Case Closed
Global ID: T0608100682

MIDLAND PACIFIC CORP ***3536 HAVEN*** ***NE 1/4 - 1/2 (0.447 mi.)*** ***57*** ***90***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 440031
Facility Status: 9- Case Closed
Global Id: T0608100330
Global ID: T0608100330
date9: 10/24/1995

SEARS MERCHANDISE GR ***1325 DOUGLAS*** ***NW 1/4 - 1/2 (0.449 mi.)*** ***58*** ***92***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Case Closed
Facility Id: 330131
Facility Status: 9- Case Closed
Global Id: T0608100843
Global ID: T0608100843
date9: 12/7/1995

REDWOOD MOTOR COURT 3706 ROLISON ROAD ENE 1/4 - 1/2 (0.467 mi.) 59 94
Database: LUST REG 2, Date of Government Version: 09/30/2004
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Status: Post remedial action monitoring
Facility Id: 330187
Facility Status: 9- Case Closed
Global Id: T0608114600
Global ID: T0608114600

CALTRANS DISTRICT 4 ***2501 E BAYSHORE BLVD*** ***NW 1/4 - 1/2 (0.488 mi.)*** ***M65*** ***111***
Database: SAN MATEO CO. LUST, Date of Government Version: 03/15/2017
Facility Id: 339203
Facility Id: 330147
Facility Status: 9- Case Closed
Global ID: T0608197613
Global ID: T0608100923

CALTRANS MAINTENANCE ***2501 EAST BAYSHORE R*** ***NW 1/4 - 1/2 (0.488 mi.)*** ***M66*** ***113***
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Global Id: T0608100923

CALTRANS-REDWOOD CIT ***2501 BAYSHORE*** ***NW 1/4 - 1/2 (0.488 mi.)*** ***M67*** ***117***
Database: LUST REG 2, Date of Government Version: 09/30/2004
Facility Status: Pollution Characterization

CA 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 SLIC list, as provided by EDR, has revealed that there are 3 CA SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EDISON TECHNOLOGY PA	***3477-3522 EDISON WAY***	***SSW 1/4 - 1/2 (0.261 mi.)***	***39***	***58***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Open - Site Assessment Global Id: T10000006237				

Lower Elevation	Address	Direction / Distance	Map ID	Page
AMPEX DATA SYSTEMS C	***1228 DOUGLAS AVE***	***NW 1/4 - 1/2 (0.398 mi.)***	***49***	***73***
CALTRANS MAINTENANCE	***2501 EAST BAYSHORE R***	***NW 1/4 - 1/2 (0.488 mi.)***	***M66***	***113***
Database: SLIC, Date of Government Version: 03/13/2017 Facility Status: Completed - Case Closed Global Id: T0608197613				

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 3 CA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL #3810 Database: UST, Date of Government Version: 03/12/2017 Facility Id: 41-000-017324	844 5TH AVE	W 1/8 - 1/4 (0.158 mi.)	B12	17
AT&T CORP. - P3066 Database: UST, Date of Government Version: 03/12/2017 Facility Id: 41-000-TMP433	3175 SPRING ST	WSW 1/8 - 1/4 (0.227 mi.)	D23	29
K & A PETROLEUM INC/ Database: UST, Date of Government Version: 03/12/2017	795 5TH AVE	WSW 1/8 - 1/4 (0.234 mi.)	D29	52

CA AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the CA AST list, as provided by EDR, and dated 07/06/2016 has revealed that there are 2 CA AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AT&T COMUNICATIONS	3175 SPRING	WSW 1/8 - 1/4 (0.227 mi.)	D21	27
AT&T CORP - P3066	3175 SPRING ST	WSW 1/8 - 1/4 (0.227 mi.)	D22	28

ADDITIONAL ENVIRONMENTAL RECORDS

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 3 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FARM Comp Number: 650018	***27401 HWY 9***	***SW 0 - 1/8 (0.009 mi.)***	***6***	***12***
AT&T REDWOOD CITY Status: A Tank Status: A Comp Number: 330120	***3175 SPRING ST***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D19***	***26***
5TH AVE SERVICE Status: A Tank Status: A Comp Number: 330115	***795 5TH***	***WSW 1/8 - 1/4 (0.234 mi.)***	***D27***	***33***

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 6 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNION OIL SS# 3810 Facility Id: 00000061420	844 5TH AVE	W 1/8 - 1/4 (0.146 mi.)	B9	14
CONOCO PHILLIPS #253	***844 FIFTH AVE***	***W 1/8 - 1/4 (0.146 mi.)***	***B11***	***15***
UNOCAL #3810 Facility Id: 00000031665	***844 5TH***	***W 1/8 - 1/4 (0.158 mi.)***	***B13***	***17***
REDWOOD CITY 4A Facility Id: 00000044161	3175 SPRING ST	WSW 1/8 - 1/4 (0.227 mi.)	D24	29
FIFTH AVENUE SERVICE Facility Id: 00000017772	795-FIFTH AVE	WSW 1/8 - 1/4 (0.234 mi.)	D30	53
5TH AVE SERVICE Facility Id: 00000060687	***795 5TH***	***WSW 1/8 - 1/4 (0.234 mi.)***	***D31***	***54***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIFTH AVENUE SERVICE Facility Id: 41004883 Status: A	795 005TH AVE	WSW 1/8 - 1/4 (0.218 mi.)	D18	25
AT&T REDWOOD CITY Facility Id: 41000082 Status: A	***3175 SPRING ST***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D19***	***26***

Other Ascertainable Records

Hazardous Materials Business Plan, Hazardous Waste Generator, Underground Storage tanks

A review of the CA San Mateo Co. BI list, as provided by EDR, and dated 03/15/2017 has revealed that there are 15 CA San Mateo Co. BI sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FARM Facility Id: FA0016703	***27401 HWY 9***	***SW 0 - 1/8 (0.009 mi.)***	***6***	***12***
5TH AVE 76 Facility Id: FA0016476	844 5TH	W 1/8 - 1/4 (0.146 mi.)	B8	13
BAY ROAD UNOCAL 76 # Facility Id: FA0017324	844 5TH	W 1/8 - 1/4 (0.146 mi.)	B10	14
7-ELEVEN INC. STORE Facility Id: FA0055301	895 5TH	W 1/8 - 1/4 (0.166 mi.)	B15	24
PAW PRINTS Facility Id: FA0055481 Facility Id: FA0016563	3166 BAY	W 1/8 - 1/4 (0.200 mi.)	C16	24
JOES FIAT SERVICE Facility Id: FA0017448	819 5TH	W 1/8 - 1/4 (0.214 mi.)	D17	25
AT&T CORP. - P3066 Facility Id: FA0007966	***3175 SPRING***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D20***	***26***
VALERO Facility Id: FA0057217 Facility Id: FA0017350	795 5TH	WSW 1/8 - 1/4 (0.234 mi.)	D28	52
TRACE ANALYTICAL INC Facility Id: FA0022188 Facility Id: FA0027951 Facility Id: FA0045033 Facility Id: FA0052120	3517 EDISON	SSW 1/8 - 1/4 (0.234 mi.)	E32	55
PORTABLE WATER SUPPL Facility Id: FA0022227	3184 SPRING	WSW 1/8 - 1/4 (0.234 mi.)	D33	56
WELTER STENCIL & ENG Facility Id: FA0012787	793 5TH	WSW 1/8 - 1/4 (0.234 mi.)	D34	56
DIETER'S GERMAN CAR Facility Id: FA0017622	***3511 EDISON WAY***	***SSW 1/8 - 1/4 (0.237 mi.)***	***E35***	***56***
JOHN ZENDER CONSULTI	3507 EDISON	SSW 1/8 - 1/4 (0.241 mi.)	E36	57

Facility Id: FA0023127 Facility Id: FA0052771				
REMCO ENTERPRISES IN Facility Id: FA0017379	3160 SPRING	WSW 1/8 - 1/4 (0.246 mi.)	D37	57
ICE OASIS Facility Id: FA0026254	3140 BAY	W 1/8 - 1/4 (0.246 mi.)	C38	58

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 18 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UNOCAL STATION #3810 Reg Id: 41-0619	***844 5TH AVENUE***	***W 1/8 - 1/4 (0.158 mi.)***	***B14***	***19***
AT&T Reg Id: 41-0045	***3175 SPRING STREET***	***WSW 1/8 - 1/4 (0.227 mi.)***	***D25***	***30***
5TH AVE SERVICE Reg Id: 41-0227	***795 5TH***	***WSW 1/8 - 1/4 (0.234 mi.)***	***D27***	***33***
GILLIS & LANE INC. Reg Id: 41-0246	***830 2ND***	***W 1/4 - 1/2 (0.331 mi.)***	***40***	***59***
PIC Reg Id: 41-0418	***3004 SPRING***	***W 1/4 - 1/2 (0.356 mi.)***	***F41***	***61***
PACIFIC BELL Reg Id: 41-0398	***867 2ND AVENUE***	***W 1/4 - 1/2 (0.384 mi.)***	***G45***	***67***
MENLO PARK FIRE DIST Reg Id: 41-1091	***4101 FAIR OAKS***	***SSE 1/4 - 1/2 (0.388 mi.)***	***H46***	***71***
DELUCA FOODS Reg Id: 41-0192	***832 BARRON***	***W 1/4 - 1/2 (0.432 mi.)***	***J53***	***86***
DELUCCHI PROPERTY Reg Id: 41-0195	***995 MARSH ROAD***	***ESE 1/4 - 1/2 (0.440 mi.)***	***K56***	***89***
CHEVRON Reg Id: 41-1086	***3805 BOHANNON***	***ESE 1/4 - 1/2 (0.469 mi.)***	***K60***	***97***
DELTA AUTO REPAIR Reg Id: 41-0080	***990 MARSH***	***ESE 1/4 - 1/2 (0.474 mi.)***	***K63***	***103***
MARSH ROAD DELI Reg Id: 41-1019	***763 MARSH***	***SE 1/4 - 1/2 (0.498 mi.)***	***68***	***118***

Lower Elevation	Address	Direction / Distance	Map ID	Page
KOBLICK SUPPLY Reg Id: 41-1126	***2950 BAY***	***WNW 1/4 - 1/2 (0.379 mi.)***	***G43***	***64***
AMPEX DATA SYSTEMS C	***1228 DOUGLAS AVE***	***NW 1/4 - 1/2 (0.398 mi.)***	***49***	***73***
SEQUOIA MILL Reg Id: 41-0719	***2575 EAST BAYSHORE R***	***NNW 1/4 - 1/2 (0.421 mi.)***	***I51***	***84***
MIDLAND PACIFIC CORP	***3536 HAVEN***	***NE 1/4 - 1/2 (0.447 mi.)***	***57***	***90***

Reg Id: 41-0345				
SEARS MERCHANDISE GR	***1325 DOUGLAS***	***NW 1/4 - 1/2 (0.449 mi.)***	***58***	***92***
Reg Id: 41-0915				
CALTRANS MAINTENANCE	***2501 EAST BAYSHORE R***	***NW 1/4 - 1/2 (0.488 mi.)***	***M66***	***113***
Reg Id: 41-1009				

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 11/21/2016 has revealed that there are 2 CA HWP sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GENERAL CIRCUITS INC	***3549 J HAVEN AVENUE***	***NE 1/4 - 1/2 (0.482 mi.)***	***L64***	***104***
EPA Id: CAD074665704				
Cleanup Status: PROTECTIVE FILER				
GENERAL CIRCUITS INC	***3585 HAVEN AVENUE***	***NE 1/2 - 1 (0.523 mi.)***	***L69***	***120***
EPA Id: CAD982462335				
Cleanup Status: KNOWN GENERATORS				

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 12/16/2016 has revealed that there are 6 CA Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PIC	***3004 SPRING***	***W 1/4 - 1/2 (0.356 mi.)***	***F42***	***63***
FORMER GAS STATION	955 MARSH ROAD	ESE 1/4 - 1/2 (0.392 mi.)	48	73
UNKNOWN	860 HURLINGAMES	WNW 1/2 - 1 (0.685 mi.)	N72	126
UNKNOWN	197 FIFTH AVENUE	SW 1/2 - 1 (0.953 mi.)	78	135
COORS WEST	2700 MIDDLEFIELD ROA	WSW 1/2 - 1 (0.991 mi.)	79	136

Lower Elevation	Address	Direction / Distance	Map ID	Page
COORS WEST	***890 BROADWAY***	***WNW 1/2 - 1 (0.892 mi.)***	***O75***	***129***

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.

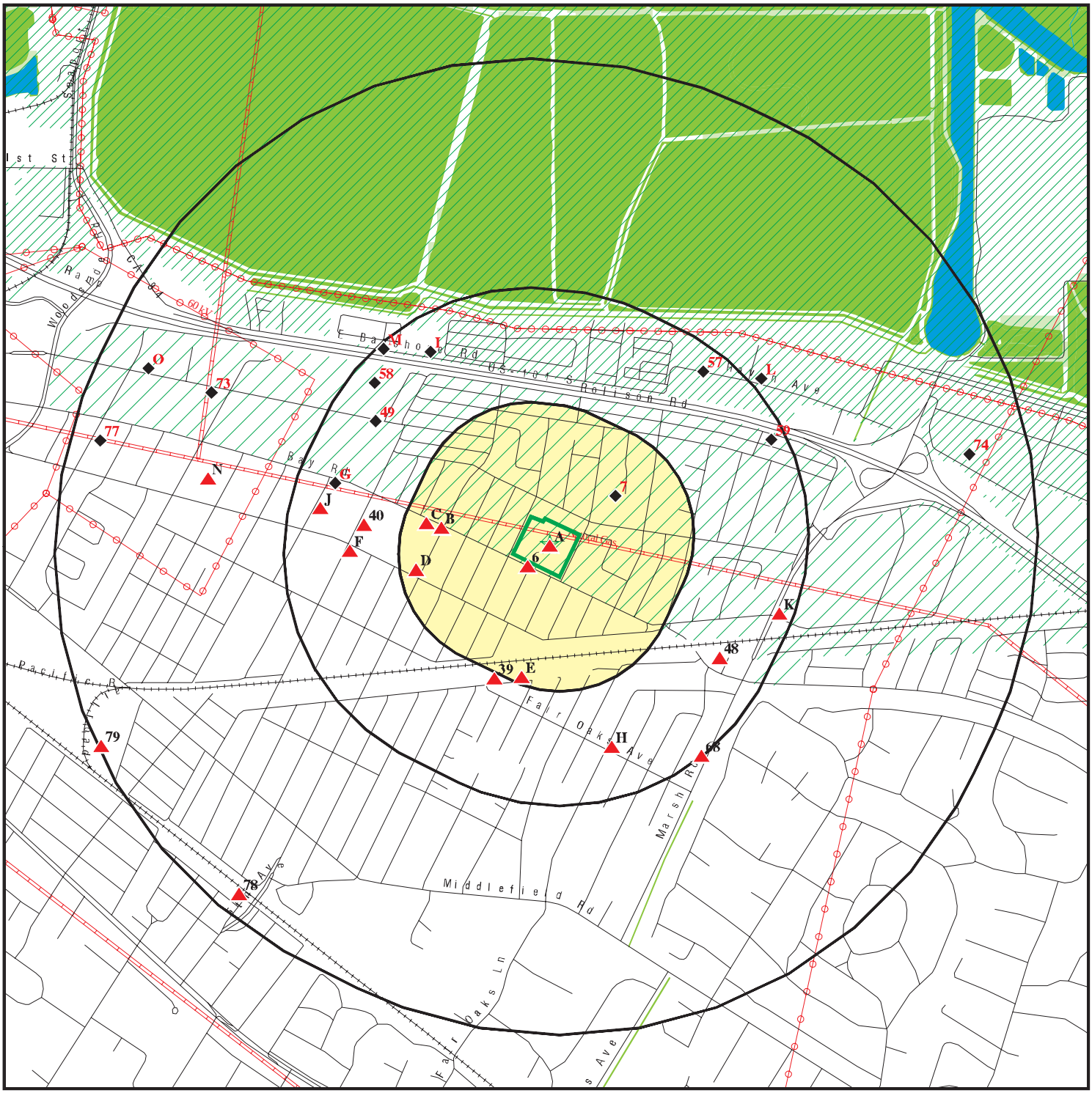
Lower Elevation	Address	Direction / Distance	Map ID	Page
EAST WEST AUTO WORKS	14 YARNALL PL	NE 0 - 1/8 (0.116 mi.)	7	13

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 7 records.

Site Name	Database(s)
BROWNING-FERRIS INDS	SEMS-ARCHIVE
MENLO PARK SAN DIST TRMT PLT	SEMS-ARCHIVE, RCRA NonGen / NLR
PG&E GAS PLANT REDWOOD CITY	SEMS-ARCHIVE
ANTON MENLO	CA LUST
HUETTIG & SCHROMM	CA LUST
SEQUOIA ALTERNATIVE SCHOOL	CA ENVIROSTOR, CA SCH
BROWNING-FERRIS INDUSTRIES	CA ENVIROSTOR

OVERVIEW MAP - 4955887.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 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: Taft Community School	CLIENT: McCloskey Consultants Inc
ADDRESS: 903 Tenth Avenue Redwood City CA 94063	CONTACT: Tom Mccloskey
LAT/LONG: 37.481008 / 122.194425	INQUIRY #: 4955887.2s DATE: June 05, 2017 10:01 am

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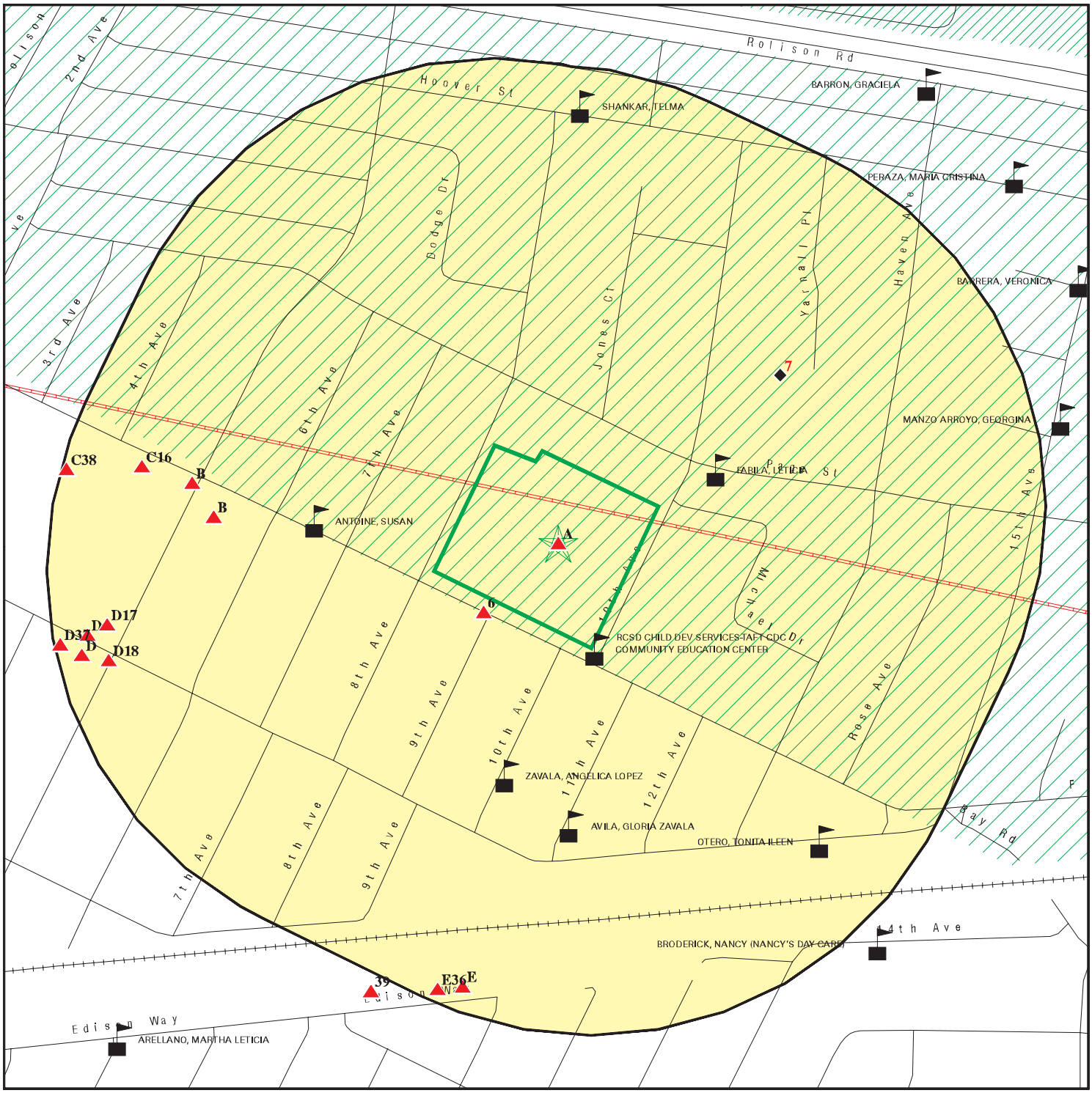
DETAIL MAP - 4955887.2S



- 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
- Indian Reservations BIA
- Pipelines
- 100-year flood zone
- 500-year flood zone
- 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: Taft Community School	CLIENT: McCloskey Consultants Inc
ADDRESS: 903 Tenth Avenue Redwood City CA 94063	CONTACT: Tom Mccloskey INQUIRY #: 4955887.2s
LAT/LONG: 37.481008 / 122.194425	DATE: June 05, 2017 10:04 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	1	1	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	1	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250	1	0	1	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST 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	0	0	NR	0
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		0	0	1	6	NR	7
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	0	1	NR	NR	1
State and tribal leaking storage tank lists								
CA LUST	0.500		0	6	26	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 SLIC	0.500		0	0	3	NR	NR	3
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		0	3	NR	NR	NR	3
CA AST	0.250		0	2	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
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	0	0	NR	NR	0
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	0	0	0	NR	0
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
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		1	2	NR	NR	NR	3
CA HIST UST	0.250		0	6	NR	NR	NR	6
CA FID UST	0.250		0	2	NR	NR	NR	2
Local Land Records								
CA LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	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
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		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	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	1	0	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA San Mateo Co. BI	0.250		1	14	NR	NR	NR	15
CA Cortese	0.500		0	0	0	NR	NR	0
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001		0	NR	NR	NR	NR	0
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	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
CA HAZNET	0.001	3	0	NR	NR	NR	NR	3
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		0	3	15	NR	NR	18
CA HWP	1.000		0	0	1	1	NR	2
CA HWT	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
CA MINES	0.001		0	NR	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	0.001		0	NR	NR	NR	NR	0
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	0	2	4	NR	6
CA UIC	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 WIP	0.250		0	0	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 --		6	3	39	52	12	0	112

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **REDWOOD CITY USD / TAFT ELEMENTARY** **CA HAZNET** **S112916128**
Target **903 10TH AVE** **N/A**
Property **REDWOOD CITY, CA 94063**

Site 1 of 5 in cluster A

Actual:
14 ft.

HAZNET:

envid:	S112916128
Year:	2001
GEPAID:	CAC002367511
Contact:	LENORA DESMAS
Telephone:	6504232240
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 940630000
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	33.71
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

envid:	S112916128
Year:	2001
GEPAID:	CAC002367511
Contact:	LENORA DESMAS
Telephone:	6504232240
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 940630000
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Not reported
Tons:	16.85
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

envid:	S112916128
Year:	2001
GEPAID:	CAC002367511
Contact:	LENORA DESMAS
Telephone:	6504232240
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 940630000
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Transfer Station
Tons:	1.26
Cat Decode:	Not reported
Method Decode:	Not reported

REDWOOD CITY USD / TAFT ELEMENTARY (Continued) **S112916128**

Facility County: San Mateo

A2 **TAFT SCHOOL** **CA HAZNET** **S112997331**
Target **903 10TH AVE** **N/A**
Property **REDWOOD CITY, CA 94063**

Site 2 of 5 in cluster A

Actual: 14 ft.

HAZNET:

envid:	S112997331
Year:	2013
GEPAID:	CAC002737007
Contact:	DONALD DIAS
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	601 JAMES AVE
Mailing City,St,Zip:	REDWOOD CITY, CA 940621044
Gen County:	San Mateo
TSD EPA ID:	CAD980675276
TSD County:	Kern
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:	0.04
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S112997331
Year:	2011
GEPAID:	CAC002681022
Contact:	LEE CHANDLER
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	601 JAMES AVE
Mailing City,St,Zip:	REDWOOD CITY, CA 94062
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
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:	0.25
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

A3 **REDWOOD CITY USD TAFT SCH** **FINDS** **1016264873**
Target **TENTH AVE AT BAY RD** **ECHO** **N/A**
Property **REDWOOD CITY, CA 94063**

Site 3 of 5 in cluster A

Actual:
14 ft.

FINDS:

Registry ID: 110008272001

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:	1016264873
Registry ID:	110008272001
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008272001

A4 **RCSD - TAFT ELEMENTARY SCHOOL** **CA HAZNET** **S112938675**
Target **903 10TH AVE** **N/A**
Property **REDWOOD CITY, CA 94063**

Site 4 of 5 in cluster A

Actual:
14 ft.

HAZNET:

envid:	S112938675
Year:	2005
GEPAID:	CAC002579346
Contact:	DON DIAZ/DIR OF FAC
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 94063
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	21.07
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

envid:	S112938675
Year:	2004
GEPAID:	CAC002579346
Contact:	DON DIAZ/DIR OF FAC
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST

RCSD - TAFT ELEMENTARY SCHOOL (Continued) **S112938675**

Mailing City,St,Zip:	REDWOOD CITY, CA 94063
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Disposal, Land Fill
Tons:	84.28
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

envid:	S112938675
Year:	2004
GEPAID:	CAC002579346
Contact:	DON DIAZ/DIR OF FAC
Telephone:	6505692374
Mailing Name:	Not reported
Mailing Address:	750 BRADFORD ST
Mailing City,St,Zip:	REDWOOD CITY, CA 94063
Gen County:	Not reported
TSD EPA ID:	CAD981382732
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Not reported
Tons:	15.17
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo

A5 **REDWOOD CITY USD TAFT SCH** **RCRA-SQG** **1000438524**
Target **TENTH AVE AT BAY RD** **CAD981678097**
Property **REDWOOD CITY, CA 94063**

Site 5 of 5 in cluster A

Actual:
14 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	REDWOOD CITY USD TAFT SCH
Facility address:	TENTH AVE AT BAY RD REDWOOD CITY, CA 94063
EPA ID:	CAD981678097
Mailing address:	815 ALLERTON ST REDWOOD CITY, CA 94063
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

REDWOOD CITY USD TAFT SCH (Continued) **1000438524**

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
- Legal status: District
- Owner/Operator Type: Operator
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: REDWOOD CITY SCHOOL
- Owner/operator address: NOT REQUIRED
  NOT REQUIRED, ME 99999
- Owner/operator country: Not reported
- Owner/operator telephone: (415) 555-1212
- Legal status: District
- 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: 10/09/1986
- Site name: REDWOOD CITY USD TAFT SCH
- Classification: Large Quantity Generator

- Violation Status: No violations found

---

6 **FARM** **CA SWEEPS UST** **S106926069**
SW **27401 HWY 9** **CA San Mateo Co. BI** **N/A**
< 1/8 **WOODSIDE, CA 94062**
0.009 mi.
50 ft.

Relative:
Higher

Actual:
15 ft.

SWEEPS UST:
- Status: Not reported
- Comp Number: 650018
- Number: Not reported
- Board Of Equalization: Not reported
- Referral Date: Not reported

FARM (Continued) **S106926069**

Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-650018-000001
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0016703
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0022729
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

---

7 **EAST WEST AUTO WORKS** **EDR Hist Auto** **1020618149**
NE **14 YARNALL PL** **N/A**
< 1/8 **REDWOOD CITY, CA 94063**
0.116 mi.
610 ft.

Relative: **Lower**

Actual: **13 ft.**

EDR Hist Auto

Year:	Name:	Type:
2004	EAST WEST AUTO WORKS	General Automotive Repair Shops
2005	EAST WEST AUTO WORKS	General Automotive Repair Shops
2006	EAST WEST AUTO WORKS	General Automotive Repair Shops

B8 **5TH AVE 76** **CA San Mateo Co. BI** **S113756233**
West **844 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.146 mi.
773 ft. **Site 1 of 8 in cluster B**

Relative: **Higher**

Actual: **15 ft.**

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0016476
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0065558
Description: GENERATES <27 GAL/YEAR
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0016476
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0065557
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0016476

5TH AVE 76 (Continued) **S113756233**

Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0065560
Description: UNDERGROUND TANK - GENERAL
Facility Status: ACTIVE

B9 **UNION OIL SS# 3810** **CA HIST UST** **1000167166**
West **844 5TH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.146 mi.
773 ft. **Site 2 of 8 in cluster B**

Relative:
Higher

Actual:
15 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000061420
Facility Type: Gas Station
Other Type: Not reported
Contact Name: HARRY L. ZIESE
Telephone: 4153686466
Owner Name: UNION OIL CO.
Owner Address: 1 CALIFORNIA ST., SUITE 2700
Owner City,St,Zip: SAN FRANCISCO, CA 94111
Total Tanks: 0001

Tank Num: 001
Container Num: 3810-10-1
Year Installed: 1968
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Visual

B10 **BAY ROAD UNOCAL 76 #253810** **CA San Mateo Co. BI** **S113756344**
West **844 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.146 mi.
773 ft. **Site 3 of 8 in cluster B**

Relative:
Higher

Actual:
15 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0017324
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0045020
Description: GENERATES <27 GAL/YEAR
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017324
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0003712
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: INACTIVE

Region: SAN MATEO

BAY ROAD UNOCAL 76 #253810 (Continued) **S113756344**

Facility ID: FA0017324
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0022414
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

B11 **CONOCO PHILLIPS #253810** **CA HIST UST** **S113132029**
West **844 FIFTH AVE** **CA HAZNET** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.146 mi.
773 ft. **Site 4 of 8 in cluster B**

Relative:
Higher

Actual:
15 ft.

HIST UST:

File Number:	0002C3E9
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C3E9.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
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:

HAZNET:

envid:	S113132029
Year:	2008
GEPAID:	CAL000282305
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481

CONOCO PHILLIPS #253810 (Continued) **S113132029**

TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Other Treatment
Tons:	0.1
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo
envid:	S113132029
Year:	2008
GEPAID:	CAL000282305
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Tons:	0.06
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo
envid:	S113132029
Year:	2008
GEPAID:	CAL000282305
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD -US MARKETING -
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.034
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	San Mateo
envid:	S113132029
Year:	2006
GEPAID:	CAL000282305
Contact:	DANELLE EICHHORST
Telephone:	2812933723
Mailing Name:	Not reported
Mailing Address:	600 N DAIRY ASHFORD PO 3014A
Mailing City,St,Zip:	HOUSTON, TX 77079
Gen County:	Not reported
TSD EPA ID:	CAD982444481
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent

CONOCO PHILLIPS #253810 (Continued) **S113132029**

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.08
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Mateo

envid: S113132029
Year: 2006
GEPAID: CAL000282305
Contact: DANELLE EICHHORST
Telephone: 2812933723
Mailing Name: Not reported
Mailing Address: 600 N DAIRY ASHFORD PO 3014A
Mailing City,St,Zip: HOUSTON, TX 77079
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: 0.07
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Mateo

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

B12 **UNOCAL #3810** **CA UST** **U003942641**
West **844 5TH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.158 mi.
835 ft. **Site 5 of 8 in cluster B**

Relative:
Higher

Actual:
14 ft.

UST:
Facility ID: Not reported
Permitting Agency: San Mateo County Environmental Health
Latitude: 37.48127
Longitude: -122.198479

Facility ID: 41-000-017324
Permitting Agency: SAN MATEO COUNTY
Latitude: 37.482601
Longitude: -122.19712

B13 **UNOCAL #3810** **CA LUST** **U001594613**
West **844 5TH** **CA HIST UST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.158 mi.
835 ft. **Site 6 of 8 in cluster B**

Relative:
Higher

Actual:
14 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Post remedial action monitoring

UNOCAL #3810 (Continued) **U001594613**

Case Number: 330075
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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: 1/1/1965

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000031665
Facility Type: Gas Station
Other Type: Not reported
Contact Name: HARRY L. ZIESE
Telephone: 4153686466
Owner Name: UNION OIL CO.
Owner Address: 1 CALIFORNIA ST. SUITE 2700
Owner City,St,Zip: SAN FRANCISCO, CA 94111
Total Tanks: 0003

Tank Num: 001
Container Num: 3810-1-1
Year Installed: 1980
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 002
Container Num: 3810-2-1
Year Installed: 1980
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 003
Container Num: 3810-4-1
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

B14 **UNOCAL STATION #3810** **CA LUST** **S100947471**
West **844 5TH AVENUE** **CA HIST CORTESE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.158 mi.
835 ft. **Site 7 of 8 in cluster B**

Relative:
Higher

Actual:
14 ft.

LUST:

Region:	STATE
Global Id:	T0608100591
Latitude:	37.481269321147
Longitude:	-122.198513746262
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/07/2011
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0619
LOC Case Number:	330075
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Can be extracted from most recent report in Geotracker or at San Mateo County offices if submitted prior to 2005, San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100591
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100591
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

Status History:

Global Id:	T0608100591
Status:	Completed - Case Closed
Status Date:	09/07/2011

Global Id:	T0608100591
Status:	Open - Case Begin Date
Status Date:	12/21/1989

Global Id:	T0608100591
Status:	Open - Verification Monitoring

UNOCAL STATION #3810 (Continued) **S100947471**

Status Date: 01/19/1995

Regulatory Activities:

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 06/06/2011
Action: Staff Letter - #20110606

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2008
Action: Monitoring Report - Semi-Annually

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 06/15/2011
Action: Technical Correspondence / Assistance / Other - #20110615

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 04/26/2011
Action: Technical Correspondence / Assistance / Other - #20110426

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2010
Action: Monitoring Report - Annually

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/10/2005
Action: Monitoring Report - Other

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/10/2006
Action: Soil and Water Investigation Workplan

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2006
Action: Monitoring Report - Annually

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2007
Action: Monitoring Report - Annually

Global Id: T0608100591
Action Type: RESPONSE
Date: 02/07/2007
Action: Sensitive Receptor Survey Report

Global Id: T0608100591
Action Type: RESPONSE
Date: 11/15/2009
Action: Monitoring Report - Semi-Annually

UNOCAL STATION #3810 (Continued) **S100947471**

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 11/02/1990
Action: Notice of Responsibility - #19901102

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 12/14/2004
Action: Staff Letter - #20041214

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 02/07/2006
Action: Staff Letter - #20060207B

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 02/07/2006
Action: Staff Letter - #20060207A

Global Id: T0608100591
Action Type: Other
Date: 11/14/1989
Action: Leak Discovery

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 09/02/2010
Action: Technical Correspondence / Assistance / Other - #20100902

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 09/07/2011
Action: Closure/No Further Action Letter - #20110907

Global Id: T0608100591
Action Type: RESPONSE
Date: 12/31/2010
Action: Correspondence

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 07/22/2009
Action: Staff Letter - #20090722

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 03/30/2011
Action: Technical Correspondence / Assistance / Other - #20110330

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 12/21/2010
Action: Staff Letter - #20101221

Global Id: T0608100591
Action Type: Other

UNOCAL STATION #3810 (Continued) **S100947471**

Date: 11/01/1990
Action: Leak Reported

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/13/2011
Action: Well Destruction Report

Global Id: T0608100591
Action Type: RESPONSE
Date: 07/30/2010
Action: Request for Closure

Global Id: T0608100591
Action Type: RESPONSE
Date: 02/15/2010
Action: Electronic Reporting Submittal Due

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 01/04/2010
Action: Staff Letter - #20100104

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 01/24/2011
Action: Staff Letter - #20110124

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/10/2006
Action: Electronic Reporting Submittal Due

Global Id: T0608100591
Action Type: RESPONSE
Date: 02/07/2007
Action: Electronic Reporting Submittal Due

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/15/2008
Action: Monitoring Report - Semi-Annually

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 11/22/2010
Action: Staff Letter - #20101122

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 03/05/2009
Action: Staff Letter - #20090305

Global Id: T0608100591
Action Type: RESPONSE
Date: 05/15/2009
Action: Monitoring Report - Semi-Annually

UNOCAL STATION #3810 (Continued) **S100947471**

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 09/08/2005
Action: Staff Letter - #20050908

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 04/30/2002
Action: Staff Letter - #20020430

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 03/04/2004
Action: Staff Letter - #20040304

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 11/01/2005
Action: Staff Letter - #20051101

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 01/03/2008
Action: Staff Letter - #20080103

Global Id: T0608100591
Action Type: ENFORCEMENT
Date: 10/17/2006
Action: Staff Letter - #20061017

Global Id: T0608100591
Action Type: RESPONSE
Date: 09/21/2011
Action: Well Destruction Report

Global Id: T0608100591
Action Type: REMEDIATION
Date: 03/21/1997
Action: Pump & Treat (P&T) Groundwater

Global Id: T0608100591
Action Type: REMEDIATION
Date: 03/21/1997
Action: Excavation

Global Id: T0608100591
Action Type: REMEDIATION
Date: 10/12/1994
Action: Excavation

Global Id: T0608100591
Action Type: REMEDIATION
Date: 12/10/1990
Action: Pump & Treat (P&T) Groundwater

UNOCAL STATION #3810 (Continued) **S100947471**

SAN MATEO CO. LUST:
- Region: SAN MATEO
- Facility ID: 330075
- Facility Status: 9- Case Closed
- Global ID: T0608100591
- APN Number: 055082010
- Case Type: SAN MATEO CO. LUST
- EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
- Region: CORTESE
- Facility County Code: 41
- Reg By: LTNKA
- Reg Id: 41-0619

B15 **7-ELEVEN INC. STORE #14339** **CA San Mateo Co. BI** **S116348348**
West **895 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.166 mi.
878 ft. **Site 8 of 8 in cluster B**

Relative:
Higher

Actual:
14 ft.

San Mateo Co. BI:
- Region: SAN MATEO
- Facility ID: FA0055301
- Prog Element Code: STORES MV FUELS OR WASTE ONLY
- Record Id: PR0076256
- Description: STORES MV FUELS OR WASTE ONLY
- Facility Status: ACTIVE

C16 **PAW PRINTS** **CA San Mateo Co. BI** **S113756239**
West **3166 BAY** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.200 mi.
1058 ft. **Site 1 of 2 in cluster C**

Relative:
Higher

Actual:
14 ft.

San Mateo Co. BI:
- Region: SAN MATEO
- Facility ID: FA0055481
- Prog Element Code: GENERATES <27 GAL/YEAR
- Record Id: PR0076506
- Description: GENERATES <27 GAL/YEAR
- Facility Status: ACTIVE

- Region: SAN MATEO
- Facility ID: FA0016563
- Prog Element Code: BUSINESS PLAN - GENERAL
- Record Id: PR0068278
- Description: BUSINESS PLAN - GENERAL
- Facility Status: INACTIVE

- Region: SAN MATEO
- Facility ID: FA0016563
- Prog Element Code: GENERATES <27 GAL/YEAR
- Record Id: PR0024927
- Description: GENERATES <27 GAL/YEAR

PAW PRINTS (Continued) **S113756239**

Facility Status: INACTIVE

D17 **JOES FIAT SERVICE** **CA San Mateo Co. BI** **S113756417**
West **819 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.214 mi.
1129 ft. **Site 1 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0017448
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0011110
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0017448
Prog Element Code:	LESS THAN 500 TIRES
Record Id:	PR0045609
Description:	LESS THAN 500 TIRES
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0017448
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0003880
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status:	INACTIVE

D18 **FIFTH AVENUE SERVICE** **CA FID UST** **S101623069**
WSW **795 005TH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.218 mi.
1149 ft. **Site 2 of 18 in cluster D**

Relative:
Higher

Actual:
19 ft.

CA FID UST:

Facility ID:	41004883
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	4150000000
Mail To:	Not reported
Mailing Address:	795 005TH AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	REDWOOD CITY 94063
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

D19 **AT&T REDWOOD CITY** **CA SWEEPS UST** **S101593666**
WSW **3175 SPRING ST** **CA FID UST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 3 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

SWEEPS UST:

Status:	Active
Comp Number:	330120
Number:	1
Board Of Equalization:	Not reported
Referral Date:	04-07-94
Action Date:	04-07-94
Created Date:	06-08-90
Owner Tank Id:	RDCYCA-U1
SWRCB Tank Id:	41-000-330120-000001
Tank Status:	A
Capacity:	8000
Active Date:	04-07-94
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	1

CA FID UST:

Facility ID:	41000082
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	3175 SPRING ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	REDWOOD CITY 94063
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

D20 **AT&T CORP. - P3066** **CA LUST** **S102424709**
WSW **3175 SPRING** **CA San Mateo Co. BI** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 4 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	330016
How Discovered:	OM
Leak Cause:	Unknown
Leak Source:	Unknown
Date Leak Confirmed:	Not reported
Oversight Program:	LUST

AT&T CORP. - P3066 (Continued) **S102424709**

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

San Mateo Co. BI:

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0037975
Description: GENERATES <27 GAL/YEAR
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: STORES HAZ MAT <31999GAL,239999LB, 111999FT^3
Record Id: PR0023425
Description: STORES HAZ MAT <31999GAL,223999LB, 111999CF
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: 2354
Record Id: PR0066752
Description: TANK STOR CAP => 10,000 AND <100,000 GAL
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0022433
Description: UNDERGROUND TANK - GENERAL
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0007966
Prog Element Code: 2354
Record Id: PR0049064
Description: TANK STOR CAP => 10,000 AND <100,000 GAL
Facility Status: INACTIVE

D21 **AT&T COMUNICATIONS** **CA AST** **A100340131**
WSW **3175 SPRING** **N/A**
1/8-1/4 **REDWOOD CITY, CA**
0.227 mi.
1201 ft. **Site 5 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

AST:
Certified Unified Program Agencies: San Mateo
Owner: Not reported
Total Gallons: 10,000
CERSID: Not reported
Facility ID: Not reported
Business Name: Not reported
Phone: Not reported

AT&T COMUNICATIONS (Continued) **A100340131**

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

D22 **AT&T CORP - P3066** **CA AST** **A100417339**
WSW **3175 SPRING ST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 6 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	AT&T Corp.
Total Gallons:	Not reported
CERSID:	10072018
Facility ID:	41-000-TMP433
Business Name:	AT&T Corporation
Phone:	(925) 998-5876
Fax:	925-973-0584
Mailing Address:	308 S. Akard Street, Room 1708
Mailing Address City:	Dallas
Mailing Address State:	TX
Mailing Address Zip Code:	75202
Operator Name:	AT&T Corp.
Operator Phone:	(925) 998-5876
Owner Phone:	214-464-2626
Owner Mail Address:	308 S. Akard Street, Room 1708
Owner State:	TX
Owner Zip Code:	75202
Owner Country:	United States
Property Owner Name:	AT&T Corp.
Property Owner Phone:	(214) 464-2626
Property Owner Mailing Address:	308 S. Akard St., Room 1708
Property Owner City:	Dallas
Property Owner Stat :	TX
Property Owner Zip Code:	75202
Property Owner Country:	United States
EPAID:	CAT080019888

D23 **AT&T CORP. - P3066** **CA UST** **U004262449**
WSW **3175 SPRING ST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 7 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

UST:
Facility ID: 41-000-TMP433
Permitting Agency: San Mateo County Environmental Health
Latitude: 37.480267
Longitude: -122.200031

D24 **REDWOOD CITY 4A** **CA HIST UST** **U001594597**
WSW **3175 SPRING ST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 8 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

HIST UST:
File Number: 0002BB78
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002BB78.pdf
Region: STATE
Facility ID: 00000044161
Facility Type: Other
Other Type: COMMUNICATIONS
Contact Name: DISTRICT MGR.-BLDG. & R.E.
Telephone: 4154606500
Owner Name: A.T.&T. COMMUNICATIONS, INC.,
Owner Address: 5925 W. LAS POSITAS BLVD.
Owner City,St,Zip: PLEASANTON, CA 94566
Total Tanks: 0003

Tank Num: 001
Container Num: B56263X-1
Year Installed: 1974
Tank Capacity: 00007500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 1/4
Leak Detection: None

Tank Num: 002
Container Num: B56263X-2
Year Installed: 1969
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 1/4
Leak Detection: None

Tank Num: 003
Container Num: B56263X-3
Year Installed: 1974
Tank Capacity: 00000275
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: 14
Leak Detection: Visual

REDWOOD CITY 4A (Continued) **U001594597**

Click here for Geo Tracker PDF:

D25 **AT&T** **CA LUST** **S104973116**
WSW **3175 SPRING STREET** **CA HIST CORTESE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.227 mi.
1201 ft. **Site 9 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

LUST:

Region:	STATE
Global Id:	T0608100044
Latitude:	37.4810777583172
Longitude:	-122.200163304806
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/05/2000
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0045
LOC Case Number:	330016
File Location:	Local Agency Warehouse
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100044
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100044
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

Status History:

Global Id:	T0608100044
Status:	Completed - Case Closed
Status Date:	09/05/2000

Global Id:	T0608100044
Status:	Open - Case Begin Date
Status Date:	04/04/1988

Regulatory Activities:

AT&T (Continued) **S104973116**

Global Id: T0608100044
Action Type: Other
Date: 01/31/1989
Action: Leak Discovery

Global Id: T0608100044
Action Type: ENFORCEMENT
Date: 01/15/1989
Action: Notice of Responsibility - #1

Global Id: T0608100044
Action Type: Other
Date: 04/04/1988
Action: Leak Reported

Global Id: T0608100044
Action Type: REMEDIATION
Date: 09/20/1989
Action: Excavation

Global Id: T0608100044
Action Type: REMEDIATION
Date: 09/20/1989
Action: Excavation

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330016
Facility Status: 9- Case Closed
Global ID: T0608100044
APN Number: Not reported
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0045

D26 **PACIFIC BELL** **RCRA-SQG** **1000251156**
WSW **3175 SPRING STREET** **FINDS** **CAT080019888**
1/8-1/4 **REDWOOD CITY, CA 94063** **ECHO**
0.227 mi.
1201 ft. **Site 10 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: PACIFIC BELL
Facility address: 3175 SPRING STREET
REDWOOD CITY, CA 94063
EPA ID: CAT080019888
Mailing address: 2 NORTH SECOND ST ROOM 1125
SAN JOSE, CA 95113
Contact: Not reported
Contact address: Not reported

PACIFIC BELL (Continued) **1000251156**

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: THE PACIFIC TELEPHONE AND TELEGRAPH CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
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
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: 01/19/1981
Site name: PACIFIC BELL
Classification: Large Quantity Generator

Violation Status: No violations found

PACIFIC BELL (Continued) **1000251156**

FINDS:

Registry ID: 110055873210

Environmental Interest/Information System
STATE MASTER

Registry ID: 110002948785

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: 1000251156
Registry ID: 110002948785
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002948785

D27 **5TH AVE SERVICE** **CA LUST** **S101325110**
WSW **795 5TH** **CA SWEEPS UST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063** **CA HIST CORTESE**
0.234 mi.
1233 ft. **Site 11 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

LUST:
Region: STATE
Global Id: T0608100216
Latitude: 37.4799187927235
Longitude: -122.199913859367
Case Type: LUST Cleanup Site
Status: Open - Eligible for Closure
Status Date: 01/23/2017
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0227
LOC Case Number: 330039
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: The following is extracted from the Site Conceptual Model dated December 28, 2009, and was augmented/clarified by San Mateo County LOP staff. The LOP does not take responsibility for the accuracy of the statements referenced in reports. 1970 - Chevron reportedly the station operator. 1970 through 1978 - Texaco reportedly operated the station. January 1984 - Moshe Shatzki (Morry Zaski) subleases the site from the Alliance Oil Company and operates the service station. January 1984 - Redwood City Fire Department (RCFD), responded to gasoline odor complaints from businesses surrounding the site and

5TH AVE SERVICE (Continued) **S101325110**

informed station owner a possible leak of gasoline occurred. The RCFD required testing to determine the integrity of the USTs and piping. February 1984 - tested USTs and piping. Four of the six product supply lines were found to be leaking (exact location not specified). Approximately 1,260 gallons of fuel reportedly released, but no documentation in file substantiating. The lines were replaced, however, odor complaints continued. RCFD found evidence of possible gasoline contamination offsite prompting the RCFD to request the installation of monitoring wells. September 1984 - Morry Zaski purchases property and remains station operator. April 1985 - United Soil Engineering installed groundwater monitoring wells MW1 and MW2 (originally named P1 and P2). 1989 - periodic groundwater monitoring commenced. The report on 2001 UST removal speculated the October 1989 Loma Prieta earthquake caused leakage from product piping connections resulting in the measured increase in free product thickness (up to 3 inches). LOP staff referenced a November 1989 pump failure that may explain the finding. April 1990 - Soil Tech Engineering drilled Borings B-1 through B3 and converted B3 to MW-3 (originally referred to as well STW-3). May and June 1990 - USTs tested tight and were reportedly relined. Approximately 5 tons of soil disposed offsite. An automatic product recovery skimmer operated in MW1 and MW2 for 6 weeks. April 1991 - RWQCB issued Cleanup and Abatement Order 91-045 naming Mr. Morry Zaski as the responsible party (RP). July 1991 - LOP named Alliance Petroleum, Victor Colombini, George Farnum, and Dale Bunyard as additional RPs. December 1992 - analyzed a NAPL sample. Results indicated it was 96% gasoline. February - ETIC drilled Borings B1 through B12 and converted three of the borings to MW-4 through MW-6. NAPL reported in B2, B3, B4, B10 and B11. July 1994 - ETIC performed slug and 10 hour pumping tests. November 1994 - ETIC installed soil vapor extraction well SVE1 and air sparge well AS1 and performed a brief SVE and AS test. January 1995 - ETIC installed wells MW7 and MW8 on the downgradient AT&T property. February 1995 - ETIC installed wells MW9 and MW10. April 1995 - ETIC prepared a feasibility study. August 1995 - ETIC installed MW-11 and seven onsite soil vapor extraction wells (V2 through V8). September 1995 - ETIC installed wells MW12 through MW17. February 1996 - ETIC installed wells MW18 and MW19. August 1996 - ETIC drilled grab groundwater Borings EB1 through EB9. September 1996 - ETIC performed a well receptor survey. Identified several residential wells near the site. January 1997 - ETIC installed monitoring wells MW20, MW21 and MW22. May 1997 - ETIC performed risk assessment, fate and transport and remedial method evaluation. June 1998 - ETIC submitted a corrective action plan. May 1999 - installed wells ORC1 through ORC4, EX1 and EX2. July 1999 - installed oxygen releasing compound (ORC) socks in wells ORC1 through ORC4. January 2000 - installed wells ORC5 through ORC7 in front of the residences with residential wells. April 2000 - ETIC drilled groundwater sampling Borings GP-1 through GP-13 andGP-15 through GP-20. May 2000 - ETIC destroyed MW1 and MW2 and installed wells MW1A and MW2A, EX3, MW8P, MW15A, MW15AP. June 2000 - ETIC performed a pumping test on MW1A, MW2A and EX3. July 2000 - ETIC performed a pumping test on MW8, MW15A and ORC2. October 2000 - submitted a remedial action plan for pump and treat remediation. April 2001 - destroyed MW2A, EX3, V2, V5 and AS1 by pressure grouting and replaced 3 single-walled steel USTs (two 10,000-gallon and one 6,000-gallon) with two new double walled 20,000 gallon USTs. Approximately 1,087 tons of hydrocarbon-impacted soil and 480,000 gallons of contaminated groundwater were removed and disposed offsite

5TH AVE SERVICE (Continued) **S101325110**

during 2001. October 2002 - installed monitoring well MW23 on Fourth Avenue. February 2003 - GET performed a subsurface utility survey. A geophysical survey and limited soil excavation was not successful at locating well MW7 (LOP consider abandoned). December 2003 - installed monitoring well MW24. August 2004 - drilled out vapor extraction well V2. 2007 - K&A Petroleum became responsible for site corrective action. Mr. Zaski's UST Cleanup Fund rights were eventually assigned to K&A Petroleum. December 2007 - Pangea began groundwater monitoring at the site. February 2008 - Pangea installed MW25 and destroyed wells MW5, MW8P, MW9, MW10, MW11, MW14, MW15A, MW15AP, MW20, ORC1, ORC2, ORC5 and ORC7. August 2009 - Pangea drilled soil boring SB-1 and two adjacent Hydropunch-type borings for discrete-depth groundwater sampling up to 43 to 48 ft bgs. Details of the offsite investigation are presented in the Offsite Investigation Report dated October 29, 2009. May and June 2011 - Pangea installed sub-slab vapor probes SS1 and SS2 and collects vapor samples. February 2013 - Pangea collected sub-slab vapor samples from SS1 and SS2. April 2012 - Pangea drilled Borings B13 through B-15. February 2013 - Pangea installed well MW26. June 2016 - Pangea drilled Borings SB-2 and SB-3.
Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100216
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100216
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

Status History:

Global Id:	T0608100216
Status:	Open - Case Begin Date
Status Date:	01/12/1984

Global Id:	T0608100216
Status:	Open - Eligible for Closure
Status Date:	01/23/2017

Global Id:	T0608100216
Status:	Open - Site Assessment
Status Date:	04/20/2009

Global Id:	T0608100216
Status:	Open - Verification Monitoring

5TH AVE SERVICE (Continued) **S101325110**

Status Date: 12/31/2002

Regulatory Activities:

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 05/17/2005
Action: Verbal Enforcement

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/18/1991
Action: Notice of Responsibility - #19910718A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/15/1991
Action: Clean-up and Abatement Order - #19910415

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/27/1998
Action: Complaint - #19980127

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/13/2006
Action: Staff Letter - #20060913

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/21/2006
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/27/2007
Action: Notice of Responsibility - #20071127B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/10/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 06/27/2003
Action: Staff Letter - #20030627A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 05/29/2009
Action: Notice of Violation - #20090529B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/03/1991
Action: Notice of Responsibility - #19910903A

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/03/1991
Action: Notice of Responsibility - #19910903B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/29/1991
Action: Notice of Violation - #19910829

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/23/1991
Action: Notice of Violation - #19910723

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/17/1990
Action: Notice to Comply - #19900117

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/25/2006
Action: Staff Letter - #20060925A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/25/2006
Action: Staff Letter - #20060925B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/15/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 09/08/2003
Action: Staff Letter - #20030908

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/11/2005
Action: Staff Letter - #20051011

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/23/2006
Action: Staff Letter - #20060823

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/25/2004
Action: Staff Letter - #20040325

Global Id: T0608100216
Action Type: ENFORCEMENT

5TH AVE SERVICE (Continued) **S101325110**

Date: 10/04/2004
Action: Staff Letter - #20041004

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/26/2004
Action: Staff Letter - #20040826

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/21/2007
Action: Staff Letter - #20071121

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/10/1989
Action: Notice of Reimbursement - #19891010

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/07/2006
Action: Staff Letter - #20060207

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/13/2006
Action: Staff Letter - #20060213

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/18/2006
Action: Notice of Violation - #20060718

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/23/2012
Action: Technical Correspondence / Assistance / Other - #20120423

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/16/2012
Action: Staff Letter - #20120416

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/11/2012
Action: Staff Letter - #20120411

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/11/2012
Action: Technical Correspondence / Assistance / Other - #20120411

Global Id: T0608100216
Action Type: RESPONSE
Date: 10/27/2008
Action: Electronic Reporting Submittal Due

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/14/2010
Action: Correspondence

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2008
Action: Technical Correspondence / Assistance / Other - #20081201

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/27/2008
Action: Staff Letter - #20081027B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/27/2008
Action: Staff Letter - #20081027A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/22/2011
Action: Staff Letter - #20110322

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 06/27/2011
Action: Staff Letter - #20110627

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/26/1984
Action: Notice to Comply - #19841226

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2015
Action: Email Correspondence - #20151201

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/31/2007
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/28/2003
Action: Other Report / Document

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/30/2003
Action: Well Installation Report

Global Id: T0608100216
Action Type: RESPONSE

5TH AVE SERVICE (Continued) **S101325110**

Date: 05/17/2004
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 06/15/2005
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/15/2006
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/15/2007
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2003
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2004
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2005
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2006
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2007
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/24/2004
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 03/15/2004
Action: Other Report / Document

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/15/2004
Action: Other Report / Document

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: RESPONSE
Date: 06/06/2005
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 03/23/2006
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/12/2006
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE
Date: 03/13/2006
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE
Date: 04/20/2004
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/12/2006
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/12/2006
Action: Other Report / Document

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/07/2007
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE
Date: 04/28/2012
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 10/05/2004
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/31/2008
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE

5TH AVE SERVICE (Continued) **S101325110**

Date: 11/30/2008
Action: NPDES / WDR Reports

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/30/2003
Action: Other Report / Document

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/05/1992
Action: Notice of Responsibility - #19921105

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/31/2008
Action: Staff Letter - #20080331

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/02/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/08/2013
Action: Technical Correspondence / Assistance / Other - #20130108

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/28/2016
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/30/2014
Action: Staff Letter - #20140130

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/31/2013
Action: Technical Correspondence / Assistance / Other - #20130131

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/07/2007
Action: Staff Letter - #20071107

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/25/2003
Action: Staff Letter - #20030825

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/28/2005
Action: Staff Letter - #20050228

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/08/2007
Action: Staff Letter - #20071108

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/15/2004
Action: Notice of Violation - #20040315

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/06/2007
Action: Notice of Violation - #20070706

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/19/2008
Action: Notice of Violation - #20080319

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/26/2007
Action: Staff Letter - #20071126B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/27/2007
Action: Staff Letter - #20071127A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/01/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/22/1995
Action: Staff Letter - #19951122

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/01/1991
Action: Staff Letter - #19910801

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 05/29/2009
Action: Staff Letter - #20090525A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/27/2009
Action: Technical Correspondence / Assistance / Other - #20090727

Global Id: T0608100216
Action Type: ENFORCEMENT

5TH AVE SERVICE (Continued) **S101325110**

Date: 04/21/2005
Action: Staff Letter - #20050421

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/02/2006
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/18/2008
Action: Staff Letter - #20080418

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/09/2013
Action: Staff Letter - #20130109

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/18/2006
Action: Well Destruction Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/15/2010
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: Other
Date: 01/12/1984
Action: Leak Reported

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/12/2006
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/24/2004
Action: Well Destruction Report

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/02/2009
Action: Staff Letter - #20091202

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2009
Action: Staff Letter - #20091201

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/06/2010
Action: Technical Correspondence / Assistance / Other - #20101206

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/03/2013
Action: Technical Correspondence / Assistance / Other - #20130103

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/25/2013
Action: Technical Correspondence / Assistance / Other - #20130225

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2016
Action: Notice of Violation - #20161201

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/14/2010
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/14/2010
Action: Conceptual Site Model

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/09/2016
Action: Staff Letter - #20160309

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/23/2017
Action: Staff Letter - #20170123

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/13/2010
Action: Staff Letter - #20100713

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/26/2007
Action: Staff Letter - #20071126A

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 06/27/2003
Action: Staff Letter - #20030627B

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/04/2006
Action: Correspondence

Global Id: T0608100216
Action Type: RESPONSE

5TH AVE SERVICE (Continued) **S101325110**

Date: 08/28/2007
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/06/2006
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/28/2007
Action: Other Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 03/28/2008
Action: Well Destruction Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/05/2008
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: RESPONSE
Date: 04/25/2012
Action: Electronic Reporting Submittal Due

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/12/1989
Action: Warning Letter - #19891012

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/18/1991
Action: Notice of Responsibility - #19910718B

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/27/1998
Action: Rescission of Enforcement Action - #19980127

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/06/2007
Action: Staff Letter - #20070706

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/20/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 04/02/2004
Action: Staff Letter - #20040402

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 10/27/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 06/22/1998
Action: Rescission of Enforcement Action - #19980622

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/29/2005
Action: Staff Letter - #20051229

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 05/23/2005
Action: Staff Letter - #20050523

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/21/2007
Action: Staff Letter - #20070821

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/15/2007
Action: Staff Letter - #20071115

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 11/28/2007
Action: Notice of Responsibility - #20071128

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/10/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/15/2004
Action: Staff Letter - #20040315

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/30/2003
Action: Staff Letter - #20031230

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 01/12/2006
Action: Staff Letter - #20060112

Global Id: T0608100216
Action Type: RESPONSE

5TH AVE SERVICE (Continued) **S101325110**

Date: 12/15/2010
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 10/27/2008
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 11/30/2009
Action: Conceptual Site Model

Global Id: T0608100216
Action Type: RESPONSE
Date: 06/06/2005
Action: Other Report / Document

Global Id: T0608100216
Action Type: RESPONSE
Date: 09/30/2003
Action: Soil and Water Investigation Workplan

Global Id: T0608100216
Action Type: RESPONSE
Date: 07/28/2003
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/15/2012
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 05/15/2013
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 04/28/2012
Action: Site Assessment Report

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 12/01/2015
Action: Staff Letter - #20151201

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 08/03/2009
Action: Staff Letter - #20090803

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/20/2013
Action: Technical Correspondence / Assistance / Other - #20130220

5TH AVE SERVICE (Continued) **S101325110**

Global Id: T0608100216
Action Type: Other
Date: 02/01/1984
Action: Leak Discovery

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 07/11/2011
Action: Technical Correspondence / Assistance / Other - #20110711

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/07/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 10/29/2009
Action: Soil and Water Investigation Report

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/15/2008
Action: Monitoring Report - Semi-Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/15/2009
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/15/2015
Action: Monitoring Report - Other

Global Id: T0608100216
Action Type: RESPONSE
Date: 01/29/2016
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 02/24/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/18/2004
Action: Notice of Violation - #20040318

Global Id: T0608100216
Action Type: ENFORCEMENT
Date: 03/24/2004
Action: Notice of Violation - #20040324

Global Id: T0608100216
Action Type: ENFORCEMENT

5TH AVE SERVICE (Continued) **S101325110**

Date: 07/18/2006
Action: Staff Letter - #20060718

Global Id: T0608100216
Action Type: RESPONSE
Date: 08/30/2011
Action: Monitoring Report - Annually

Global Id: T0608100216
Action Type: RESPONSE
Date: 02/05/2015
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0608100216
Action Type: RESPONSE
Date: 12/02/2016
Action: Request for Closure - Regulator Responded

Global Id: T0608100216
Action Type: REMEDIATION
Date: 06/04/1990
Action: Excavation

Global Id: T0608100216
Action Type: REMEDIATION
Date: 07/01/1999
Action: Ex Situ Physical/Chemical Treatment (other than P&T, SVE, or Excavation)

Global Id: T0608100216
Action Type: REMEDIATION
Date: 05/04/1990
Action: Free Product Removal

Global Id: T0608100216
Action Type: REMEDIATION
Date: 04/25/2001
Action: Excavation

Global Id: T0608100216
Action Type: REMEDIATION
Date: 05/02/2001
Action: Pump & Treat (P&T) Groundwater

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330039
Facility Status: 8- Verification Monitoring Underway
Global ID: T0608100216
APN Number: 055086020
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

SWEEPS UST:
Status: Active

5TH AVE SERVICE (Continued) **S101325110**

Comp Number: 330115
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-13-94
Action Date: 04-13-94
Created Date: 10-13-88
Owner Tank Id: UNK
SWRCB Tank Id: 41-000-330115-000001
Tank Status: A
Capacity: 6000
Active Date: 04-13-94
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 3

Status: Active
Comp Number: 330115
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-13-94
Action Date: 04-13-94
Created Date: 10-13-88
Owner Tank Id: UNK
SWRCB Tank Id: 41-000-330115-000002
Tank Status: A
Capacity: 10000
Active Date: 04-13-94
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 330115
Number: 1
Board Of Equalization: Not reported
Referral Date: 04-13-94
Action Date: 04-13-94
Created Date: 10-13-88
Owner Tank Id: UNK
SWRCB Tank Id: 41-000-330115-000003
Tank Status: A
Capacity: 10000
Active Date: 04-13-94
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0227

D28 **VALERO** **CA San Mateo Co. BI** **S113756361**
WSW **795 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1233 ft. **Site 12 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0057217
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0079391
Description:	GENERATES <27 GAL/YEAR
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0057217
Prog Element Code:	STORES MV FUELS OR WASTE ONLY
Record Id:	PR0079390
Description:	STORES MV FUELS OR WASTE ONLY
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0057217
Prog Element Code:	UNDERGROUND TANK - GENERAL
Record Id:	PR0079392
Description:	UNDERGROUND TANK - GENERAL
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0017350
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0044300
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0017350
Prog Element Code:	STORES MV FUELS OR WASTE ONLY
Record Id:	PR0024889
Description:	STORES MV FUELS OR WASTE ONLY
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0017350
Prog Element Code:	UNDERGROUND TANK - GENERAL
Record Id:	PR0022431
Description:	UNDERGROUND TANK - GENERAL
Facility Status:	INACTIVE

D29 **K & A PETROLEUM INC/ TRITON GASOLINE** **CA UST** **U004265019**
WSW **795 5TH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1233 ft. **Site 13 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

UST:

Facility ID:	Not reported
Permitting Agency:	San Mateo County Environmental Health
Latitude:	37.479855
Longitude:	-122.200035

D30 **FIFTH AVENUE SERVICE** **CA HIST UST** **U001594555**
WSW **795-FIFTH AVE** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1233 ft. **Site 14 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

HIST UST:

File Number:	0002C43B
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C43B.pdf
Region:	STATE
Facility ID:	00000017772
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MORRY ZASKI
Telephone:	4153661190
Owner Name:	VICTOR J. COROMBINI
Owner Address:	1224 SO. WINCHESTER BLVD.
Owner City,St,Zip:	SAN JOSE, CA 95128
Total Tanks:	0004
Tank Num:	001
Container Num:	2
Year Installed:	1975
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	002
Container Num:	1
Year Installed:	1975
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	003
Container Num:	3
Year Installed:	1975
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Pressure Test
Tank Num:	004
Container Num:	4
Year Installed:	1955
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

D31 **5TH AVE SERVICE** **CA LUST** **U001594522**
WSW **795 5TH** **CA HIST UST** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1233 ft. **Site 15 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Post remedial action monitoring
Case Number:	330039
How Discovered:	LT
Leak Cause:	Unknown
Leak Source:	Unknown
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:	12/31/2002

HIST UST:

File Number:	0002C0A1
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C0A1.pdf
Region:	STATE
Facility ID:	00000060687
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MORRY AZASKI
Telephone:	4153661190
Owner Name:	MORRY ZASKI
Owner Address:	795 5TH AVE
Owner City,St,Zip:	REDWOOD, CA 94063
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00010000

5TH AVE SERVICE (Continued) **U001594522**

Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

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E32 **TRACE ANALYTICAL INC** **CA San Mateo Co. BI** **S106981579**
SSW **3517 EDISON** **N/A**
1/8-1/4 **MENLO PARK, CA 94025**
0.234 mi.
1233 ft. **Site 1 of 3 in cluster E**

Relative:
Higher

Actual:
24 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0022188
Prog Element Code:	STORES HAZ MAT <3,499GAL,27,999LB,13,999FT3
Record Id:	PR0023420
Description:	STORES HAZ MAT <3,499GAL,27,999LB,13,999CF
Facility Status:	INACTIVE
Region:	SAN MATEO
Facility ID:	FA0027951
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0045914
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE
Region:	SAN MATEO
Facility ID:	FA0045033
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0057558
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE
Region:	SAN MATEO
Facility ID:	FA0052120
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0072303
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE
Region:	SAN MATEO
Facility ID:	FA0052120
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0072302
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status:	INACTIVE

D33 **PORTABLE WATER SUPPLY** **CA San Mateo Co. BI** **S113756684**
WSW **3184 SPRING** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1234 ft. **Site 16 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0022227
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0023599
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

D34 **WELTER STENCIL & ENGRAVING** **CA San Mateo Co. BI** **S113755856**
WSW **793 5TH** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.234 mi.
1237 ft. **Site 17 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0012787
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0011307
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

E35 **DIETER'S GERMAN CAR REPIAR** **CA San Mateo Co. BI** **S102268247**
SSW **3511 EDISON WAY** **CA HAZNET** **N/A**
1/8-1/4 **MENLO PARK, CA 94025**
0.237 mi.
1253 ft. **Site 2 of 3 in cluster E**

Relative:
Higher

Actual:
24 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0017622
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0023057
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017622
Prog Element Code: LESS THAN 500 TIRES
Record Id: PR0045422
Description: LESS THAN 500 TIRES
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017622
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0023058
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF
Facility Status: INACTIVE

HAZNET:
envid: S102268247

DIETER'S GERMAN CAR REPIAR (Continued) **S102268247**

Year:	2013
GEPAID:	CAL000160805
Contact:	LEWIS CAMPBELL
Telephone:	6503650432
Mailing Name:	Not reported
Mailing Address:	3511 EDISON WAY
Mailing City,St,Zip:	MENLO PARK, CA 940251815
Gen County:	San Mateo
TSD EPA ID:	CAT080012602
TSD County:	Solano
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.5004
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

E36 **JOHN ZENDER CONSULTING** **CA San Mateo Co. BI** **S106981720**
SSW **3507 EDISON** **N/A**
1/8-1/4 **MENLO PARK, CA 94025**
0.241 mi.
1274 ft. **Site 3 of 3 in cluster E**

Relative:
Higher

Actual:
24 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0023127
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0026385
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0052771
Prog Element Code:	GENERATES <27 GAL/YEAR
Record Id:	PR0074531
Description:	GENERATES <27 GAL/YEAR
Facility Status:	INACTIVE

Region:	SAN MATEO
Facility ID:	FA0052771
Prog Element Code:	STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id:	PR0074436
Description:	STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status:	INACTIVE

D37 **REMCO ENTERPRISES INC** **CA San Mateo Co. BI** **S113756377**
WSW **3160 SPRING** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.246 mi.
1298 ft. **Site 18 of 18 in cluster D**

Relative:
Higher

Actual:
18 ft.

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0017379
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT

REMCO ENTERPRISES INC (Continued) **S113756377**

Record Id: PR0011064
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017379
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0003897
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

C38 **ICE OASIS** **CA San Mateo Co. BI** **S113757471**
West **3140 BAY** **N/A**
1/8-1/4 **REDWOOD CITY, CA 94063**
0.246 mi.
1300 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
14 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0026254
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0037888
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0026254
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0043332
Description: GENERATES <27 GAL/YEAR
Facility Status: INACTIVE

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39 **EDISON TECHNOLOGY PARK** **CA LUST** **S118504667**
SSW **3477-3522 EDISON WAY** **CA SLIC** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.261 mi.
1380 ft.

Relative:
Higher

Actual:
24 ft.

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 449093
Facility Status: 3B- Preliminary Assessment Underway
Global ID: T10000006237
APN Number: Not reported
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

SLIC:
Region: STATE
Facility Status: **Open - Site Assessment**
Status Date: 09/26/2014
Global Id: T10000006237
Lead Agency: SAN MATEO COUNTY LOP
Lead Agency Case Number: 449093
Latitude: 37.4771379
Longitude: -122.194453

EDISON TECHNOLOGY PARK (Continued) **S118504667**

Case Type:	Cleanup Program Site
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	Not reported
File Location:	All Files are on GeoTracker or in the Local Agency Database
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Other Insecticides / Pesticide / Fumigants / Herbicides, Copper, Lead, Total Petroleum Hydrocarbons (TPH)
Site History:	Soil borings were advanced onsite and results of soil and groundwater samples reported per boring permits. Soil reported to be impacted by TPHd, TPHmo, Dieldrin, OCPs, Phenols and Metals, especially high levels of Lead. Groundwater impacted by TPHd, TPHmo and PCE. Investigation was completed prior to site being transitioned to use for international school. Based on the results, the school will not be located at this site.

Click here to access the California GeoTracker records for this facility:

40
West
1/4-1/2
0.331 mi.
1747 ft.

Relative:
Higher

Actual:
15 ft.

GILLIS & LANE INC. **CA LUST S101303182**
830 2ND **CA HIST CORTESE N/A**
REDWOOD CITY, CA 94063

LUST:

Region:	STATE
Global Id:	T0608100234
Latitude:	37.481631
Longitude:	-122.201669
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/06/1999
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0246
LOC Case Number:	330010
File Location:	Local Agency Warehouse
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100234
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100234
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)

GILLIS & LANE INC. (Continued) **S101303182**

Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0608100234
Status: Completed - Case Closed
Status Date: 12/06/1999

Global Id: T0608100234
Status: Open - Case Begin Date
Status Date: 11/24/1986

Regulatory Activities:
Global Id: T0608100234
Action Type: Other
Date: 11/24/1986
Action: Leak Reported

Global Id: T0608100234
Action Type: ENFORCEMENT
Date: 09/28/1990
Action: Notice of Responsibility - #1

Global Id: T0608100234
Action Type: Other
Date: 12/19/1986
Action: Leak Discovery

Global Id: T0608100234
Action Type: REMEDIATION
Date: 06/18/1993
Action: Pump & Treat (P&T) Groundwater

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330010
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO

GILLIS & LANE INC. (Continued) **S101303182**

Facility ID: 330010
Facility Status: 9- Case Closed
Global ID: T0608100234
APN Number: 055081190 055081180
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0246

F41 **PIC** **CA LUST** **S104494089**
West **3004 SPRING** **CA HIST CORTESE** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.356 mi.
1879 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
17 ft.

LUST:
Region: STATE
Global Id: T0608100398
Latitude: 37.480742
Longitude: -122.202407
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 05/31/1996
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0418
LOC Case Number: 330032
File Location: Local Agency Warehouse
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100398
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100398
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

PIC (Continued) **S104494089**

Status History:
Global Id: T0608100398
Status: Completed - Case Closed
Status Date: 05/31/1996

Global Id: T0608100398
Status: Open - Case Begin Date
Status Date: 07/02/1987

Regulatory Activities:
Global Id: T0608100398
Action Type: Other
Date: 07/02/1987
Action: Leak Reported

Global Id: T0608100398
Action Type: Other
Date: 07/02/1987
Action: Leak Discovery

Global Id: T0608100398
Action Type: ENFORCEMENT
Date: 01/31/1989
Action: Notice of Responsibility - #1

Global Id: T0608100398
Action Type: REMEDIATION
Date: 12/15/1988
Action: Excavation

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330032
Facility Status: 9- Case Closed
Global ID: T0608100398
APN Number: 055084010
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0418

F42
West
1/4-1/2
0.356 mi.
1879 ft.

PIC
3004 SPRING
REDWOOD CITY, CA 94063
Site 2 of 2 in cluster F

CA LUST **S100178592**
CA AST **N/A**
CA Notify 65

Relative:
Higher

Actual:
17 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	330032
How Discovered:	OM
Leak Cause:	Unknown
Leak Source:	Unknown
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

AST:

Certified Unified Program Agencies:	Imperial
Owner:	DEPARTMENT OF PARKS AND REC.
Total Gallons:	3,000
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

NOTIFY 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported

PIC (Continued) **S100178592**

Issue Date: Not reported
Incident Description: Not reported

G43 **KOBLICK SUPPLY** **CA LUST** **S103892840**
WNW **2950 BAY** **CA SWEEPS UST** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063** **CA HIST CORTESE**
0.379 mi.
2000 ft. **Site 1 of 4 in cluster G**

Relative:
Lower

Actual:
13 ft.

LUST:

Region:	STATE
Global Id:	T0608101035
Latitude:	37.4826
Longitude:	-122.20237
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/27/1990
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1126
LOC Case Number:	330038
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608101035
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608101035
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

Status History:

Global Id:	T0608101035
Status:	Completed - Case Closed
Status Date:	09/27/1990

Global Id:	T0608101035
Status:	Open - Case Begin Date
Status Date:	09/27/1990

KOBLICK SUPPLY (Continued) **S103892840**

Regulatory Activities:
Global Id: T0608101035
Action Type: ENFORCEMENT
Date: 09/27/1990
Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330038
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330038
Facility Status: 9- Case Closed
Global ID: T0608101035
APN Number: 054172050
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

SWEEPS UST:
Status: Not reported
Comp Number: 330137
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: 41-000-330137-000001
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 330137
Number: Not reported
Board Of Equalization: Not reported

KOBLICK SUPPLY (Continued) **S103892840**

Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	41-000-330137-000002
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1126

G44 **MR. HAUL** **CA SWF/LF** **S110326605**
West **867 SECOND AVENUE** **N/A**
1/4-1/2 **REDWOOD CITY, CA**
0.384 mi.
2025 ft. **Site 2 of 4 in cluster G**

Relative:
Higher

Actual:
14 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	41-AA-0181
Lat/Long:	37.48196 / -122.20109
Owner Name:	Gerritsen, Georgia
Owner Telephone:	4153440618
Owner Address:	Not reported
Owner Address2:	1229 Burlingame Ave, Apt 7
Owner City,St,Zip:	Burlingame, CA 94010
Operational Status:	Active
Operator:	Mr. Haul
Operator Phone:	4155937138
Operator Address:	Not reported
Operator Address2:	1383 Rosewood Avenue
Operator City,St,Zip:	San Carlos, CA
Permit Date:	09/27/1996
Permit Status:	Notification
Permitted Acreage:	Not reported
Activity:	Small Vol CDI Debris Proc. Operation
Regulation Status:	Notification
Landuse Name:	Not reported
GIS Source:	Map
Category:	Transfer/Processing
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	41-AA-0181
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported

MR. HAUL (Continued) **S110326605**

Permitted Throughput with Units: Not reported
Actual Throughput with Units: Not reported
Permitted Capacity with Units: Not reported
Remaining Capacity: Not reported
Remaining Capacity with Units: Not reported
Lat/Long: 37.48196 / -122.20109

G45 **PACIFIC BELL** **RCRA-SQG** **1000251284**
West **867 2ND AVENUE** **CA LUST** **CAT080021231**
1/4-1/2 **REDWOOD CITY, CA 94063** **CA HIST UST**
0.384 mi. **FINDS**
2025 ft. **Site 3 of 4 in cluster G** **ECHO**
CA HIST CORTESE

Relative:
Higher

Actual:
14 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: PACIFIC BELL
Facility address: 867 2ND AVENUE
REDWOOD CITY, CA 94063
EPA ID: CAT080021231
Mailing address: 2 NORTH SECOND ST ROOM 1125
SAN JOSE, CA 95113
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: THE PACIFIC TELEPHONE AND TELEGRAPH CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
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
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

PACIFIC BELL (Continued) **1000251284**

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: 01/19/1981
- Site name: PACIFIC BELL
- Classification: Large Quantity Generator

Violation Status: No violations found

LUST:
- Region: STATE
- Global Id: T0608100379
- Latitude: 37.482027
- Longitude: -122.200016
- Case Type: LUST Cleanup Site
- Status: Completed - Case Closed
- Status Date: 03/22/2001
- Lead Agency: SAN MATEO COUNTY LOP
- Case Worker: DGM
- Local Agency: SAN MATEO COUNTY LOP
- RB Case Number: 41-0398
- LOC Case Number: 330011
- File Location: Local Agency
- Potential Media Affect: Other Groundwater (uses other than drinking water)
- Potential Contaminants of Concern: Gasoline
- Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
- Global Id: T0608100379
- Contact Type: Local Agency Caseworker
- Contact Name: DENO MILANO
- Organization Name: SAN MATEO COUNTY LOP
- Address: 2000 ALAMEDA DE LAS PULGAS
- City: SAN MATEO
- Email: dmilano@smcgov.org
- Phone Number: 6503726292

- Global Id: T0608100379
- Contact Type: Regional Board Caseworker
- Contact Name: Regional Water Board

PACIFIC BELL (Continued) **1000251284**

Organization Name: SAN FRANCISCO BAY RWQCB (REGION 2)
Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0608100379
Status: Completed - Case Closed
Status Date: 03/22/2001

Global Id: T0608100379
Status: Open - Case Begin Date
Status Date: 12/01/1986

Regulatory Activities:
Global Id: T0608100379
Action Type: Other
Date: 12/01/1986
Action: Leak Reported

Global Id: T0608100379
Action Type: ENFORCEMENT
Date: 06/08/1990
Action: Notice of Responsibility - #1

Global Id: T0608100379
Action Type: Other
Date: 12/01/1986
Action: Leak Discovery

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330011
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330011
Facility Status: 9- Case Closed
Global ID: T0608100379
APN Number: 054172180

PACIFIC BELL (Continued) **1000251284**

Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000016342
Facility Type: Other
Other Type: PHONE CO
Contact Name: E.J. KOEHLER
Telephone: 4155426758
Owner Name: PACIFIC BELL
Owner Address: 370 THIRD STREET
Owner City,St,Zip: SAN FRANCISCO, CA 94107
Total Tanks: 0001

Tank Num: 001
Container Num: G-81-10K
Year Installed: 1981
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: None

FINDS:

Registry ID: 110002949837

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.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000251284
Registry ID: 110002949837
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002949837

HIST CORTESE:

PACIFIC BELL (Continued) **1000251284**

Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0398

H46 **MENLO PARK FIRE DISTRICT** **CA San Mateo Co. BI** **S103658093**
SSE **4101 FAIR OAKS** **CA HIST CORTESE** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.388 mi.
2050 ft. **Site 1 of 2 in cluster H**

Relative:
Higher

Actual:
26 ft.

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0024993
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0074289
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0024993
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0031874
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-1091

H47 **MENLO PARK FIRE DIST #5** **CA LUST** **S103879301**
SSE **4101 FAIR OAKS** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.389 mi.
2052 ft. **Site 2 of 2 in cluster H**

Relative:
Higher

Actual:
27 ft.

LUST:
Region: STATE
Global Id: T0608101001
Latitude: 37.4808
Longitude: -122.2092
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/12/1998
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-1091
LOC Case Number: 330155
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Not reported
Site History: Not reported

MENLO PARK FIRE DIST #5 (Continued) **S103879301**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608101001
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608101001
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

Status History:

Global Id:	T0608101001
Status:	Completed - Case Closed
Status Date:	06/12/1998

Global Id:	T0608101001
Status:	Open - Case Begin Date
Status Date:	04/09/1998

Regulatory Activities:

Global Id:	T0608101001
Action Type:	ENFORCEMENT
Date:	04/24/1998
Action:	Notice of Responsibility - #1

Global Id:	T0608101001
Action Type:	Other
Date:	04/09/1998
Action:	Leak Reported

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Case Closed
Case Number:	330155
How Discovered:	OM
Leak Cause:	Unknown
Leak Source:	Unknown
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

MENLO PARK FIRE DIST #5 (Continued) **S103879301**

Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330155
Facility Status: 9- Case Closed
Global ID: T0608101001
APN Number: 060133130
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

48
ESE
1/4-1/2
0.392 mi.
2068 ft.

FORMER GAS STATION
955 MARSH ROAD
REDWOOD CITY, CA 92257

CA Notify 65 **S100178996**
N/A

Relative:
Higher

Actual:
24 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

49
NW
1/4-1/2
0.398 mi.
2099 ft.

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION
1228 DOUGLAS AVE
REDWOOD CITY, CA 94063

RCRA-SQG **1000225598**
CA LUST **CAD009129073**
CA SLIC
FINDS
ECHO
CA EMI
CA HIST CORTESE
NY MANIFEST

Relative:
Lower

Actual:
10 ft.

RCRA-SQG:
Date form received by agency: 07/23/2008
Facility name: AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION
Facility address: 1228 DOUGLAS AVE
REDWOOD CITY, CA 94063
EPA ID: CAD009129073
Contact: LOUIS B GILMORE
Contact address: 1228 DOUGLAS AVE
REDWOOD CITY, CA 94063
Contact country: US
Contact telephone: 650-367-2258
Contact email: LOU_GILMORE@AMPEX.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

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: STANFORD UNIVERSITY
Owner/operator address: 2755 SAND HILL RD STE 100
MENLO PARK, CA 94025
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 09/27/2005
Owner/Op end date: Not reported

Owner/operator name: AMPEX DATA SYSTEMS CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1947
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: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED 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 NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED 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: AMPEX CORP
Classification: Small Quantity Generator

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Date form received by agency: 02/28/1996
Site name: AMPEX CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 03/03/1992
Site name: AMPEX CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 08/15/1980
Site name: AMPEX CORP
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/25/1986
Date achieved compliance: 03/07/1986
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/07/1986
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 - General
Date violation determined: 03/22/1985
Date achieved compliance: 03/07/1986
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

Evaluation Action Summary:
Evaluation date: 02/25/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/07/1986
Evaluation lead agency: State

Evaluation date: 03/22/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/07/1986
Evaluation lead agency: State Contractor/Grantee

LUST:
Region: STATE
Global Id: T0608101042

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Latitude:	37.4850065
Longitude:	-122.2014889
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/31/1995
Lead Agency:	SAN FRANCISCO BAY RWQCB (REGION 2)
Case Worker:	UUU
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1134
LOC Case Number:	339001
File Location:	Not reported
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	* Solvents
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608101042
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608101042
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

Status History:

Global Id:	T0608101042
Status:	Completed - Case Closed
Status Date:	12/31/1995

Global Id:	T0608101042
Status:	Open - Case Begin Date
Status Date:	10/18/1995

Regulatory Activities:

Global Id:	T0608101042
Action Type:	Other
Date:	10/18/1995
Action:	Leak Discovery

Global Id:	T0608101042
Action Type:	Other
Date:	10/18/1995
Action:	Leak Reported

Global Id:	T0608101042

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Action Type: Other
Date: 10/18/1995
Action: Leak Stopped

LUST REG 2:
Region: 2
Facility Id: 41-0691
Facility Status: Case Closed
Case Number: 330013
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

Region: 2
Facility Id: 41-1134
Facility Status: Case Closed
Case Number: 339001
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

SLIC:
Region: STATE
Facility Status: **Open - Remediation**
Status Date: 03/03/2017
Global Id: T0608100657
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: 330013
Latitude: 37.4850065
Longitude: -122.2014889
Case Type: Cleanup Program Site
Case Worker: RL
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0691
File Location: Regional Board
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: * Solvents
Site History: The site is currently under investigation in light of the proposed use of the site as Stanford’s Redwood City campus.

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Click here to access the California GeoTracker records for this facility:

FINDS:

Registry ID: 110064296694

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: 110022302202

Environmental Interest/Information System
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000225598
Registry ID:	110064296694
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110064296694

EMI:

Year:	1987
County Code:	41
Air Basin:	SF
Facility ID:	291
Air District Name:	BA
SIC Code:	3679
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:	11
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	3
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:	41
Air Basin:	SF
Facility ID:	8142
Air District Name:	BA

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

SIC Code:	3671
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:	12
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-0691

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1134

NY MANIFEST:

Country:	USA
EPA ID:	CAD009129073
Facility Status:	Not reported
Location Address 1:	401 BROADWAY
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	REDWOOD CITY
Location State:	CA
Location Zip:	94063
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	CAD009129073
Mailing Name:	AMPEX
Mailing Contact:	AMPEX
Mailing Address 1:	401 BROADWAY
Mailing Address 2:	Not reported
Mailing City:	REDWOOD CITY
Mailing State:	CA
Mailing Zip:	94063
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	4153672258

NY MANIFEST:

Document ID:	NYB4164597
Manifest Status:	C
seq:	Not reported
Year:	1994
Trans1 State ID:	10742PNY
Trans2 State ID:	Not reported

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Generator Ship Date:	07/12/1994
Trans1 Recv Date:	07/12/1994
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/27/1994
Part A Recv Date:	/ /
Part B Recv Date:	08/05/1994
Generator EPA ID:	CAD009129073
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported
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:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00001
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

Document ID:	NYA3199645
Manifest Status:	K
seq:	Not reported
Year:	1986
Trans1 State ID:	68008
Trans2 State ID:	X17593NY
Generator Ship Date:	09/08/1986
Trans1 Recv Date:	09/08/1986
Trans2 Recv Date:	09/17/1986
TSD Site Recv Date:	09/26/1986
Part A Recv Date:	11/13/1986
Part B Recv Date:	10/02/1986
Generator EPA ID:	CAD009129073
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

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:	D002 - NON-LISTED CORROSIVE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00010
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100

Document ID:	NYB4164606
Manifest Status:	K
seq:	Not reported
Year:	1994
Trans1 State ID:	11592PNY
Trans2 State ID:	Not reported
Generator Ship Date:	05/06/1994
Trans1 Recv Date:	05/06/1994
Trans2 Recv Date:	/ /
TSD Site Recv Date:	05/19/1994
Part A Recv Date:	/ /
Part B Recv Date:	06/07/1994
Generator EPA ID:	CAD009129073
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported
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:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00001

AMPEX DATA SYSTEMS CORPORATION AMPEX CORPORATION (Continued) **1000225598**

Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00001
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

G50 **MEWES PROPERTY** **CA LUST** **S104568283**
WNW **2906 BAY** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.417 mi.
2203 ft. **Site 4 of 4 in cluster G**

Relative:
Lower

Actual:
13 ft.

LUST:

Region:	STATE
Global Id:	T0608123266
Latitude:	37.483155
Longitude:	-122.202953
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	03/20/2000
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-4020
LOC Case Number:	330182
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608123266
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608123266
Contact Type:	Regional Board Caseworker
Contact Name:	Regional Water Board
Organization Name:	SAN FRANCISCO BAY RWQCB (REGION 2)

MEWES PROPERTY (Continued) **S104568283**

Address: 1515 CLAY ST SUITE 1400
City: OAKLAND
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0608123266
Status: Completed - Case Closed
Status Date: 03/20/2000

Global Id: T0608123266
Status: Open - Case Begin Date
Status Date: 10/14/1999

Regulatory Activities:
Global Id: T0608123266
Action Type: ENFORCEMENT
Date: 11/02/1999
Action: Notice of Responsibility - #1

Global Id: T0608123266
Action Type: Other
Date: 10/14/1999
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330182
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330182
Facility Status: 9- Case Closed
Global ID: T0608123266
APN Number: Not reported
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

I51 **SEQUOIA MILL** **CA LUST** **S103892866**
NNW **2575 EAST BAYSHORE ROAD** **CA HIST CORTESE** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.421 mi.
2224 ft. **Site 1 of 2 in cluster I**

Relative:
Lower

Actual:
8 ft.

LUST:

Region:	STATE
Global Id:	T0608100682
Latitude:	37.487555
Longitude:	-122.199073
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/19/1994
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0719
LOC Case Number:	330063
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100682
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100682
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

Status History:

Global Id:	T0608100682
Status:	Completed - Case Closed
Status Date:	09/19/1994

Global Id:	T0608100682
Status:	Open - Case Begin Date
Status Date:	06/12/1989

Regulatory Activities:

Global Id:	T0608100682
Action Type:	Other
Date:	06/12/1989
Action:	Leak Reported

SEQUOIA MILL (Continued) **S103892866**

Global Id: T0608100682
Action Type: ENFORCEMENT
Date: 10/05/1990
Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330063
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0719

I52 **SEQUOIA MILL** **CA LUST** **U001594604**
NNW **2575 E BAYSHORE RD** **CA HIST UST** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.421 mi.
2224 ft. **Site 2 of 2 in cluster I**

Relative:
Lower

Actual:
8 ft.

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330063
Facility Status: 9- Case Closed
Global ID: T0608100682
APN Number: 054131050
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST UST:
File Number: 0002C26C
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002C26C.pdf
Region: STATE
Facility ID: 00000008802
Facility Type: Other
Other Type: WOODWORKING
Contact Name: Not reported
Telephone: 4153654666
Owner Name: SEQUOIA MILL
Owner Address: 2575 E. BAYSHORE RD
Owner City,St,Zip: REDWOOD CITY, CA 94063

SEQUOIA MILL (Continued) **U001594604**

Total Tanks: 0001

Tank Num: 001
Container Num: #001
Year Installed: 1974
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 3/8
Leak Detection: Visual, Sensor Instrument, Pressure Test

Click here for Geo Tracker PDF:

J53 **DELUCA FOODS** **CA LUST S101438169**
West **832 BARRON** **CA HIST CORTESE N/A**
1/4-1/2 **REDWOOD CITY, CA 94061**
0.432 mi.
2283 ft. **Site 1 of 2 in cluster J**

Relative:
Higher

Actual:
15 ft.

LUST:
Region: STATE
Global Id: T0608100183
Latitude: 37.482107
Longitude: -122.203301
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/28/1999
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0192
LOC Case Number: 330088
File Location: Local Agency Warehouse
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100183
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100183
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

DELUCA FOODS (Continued) **S101438169**

Status History:
Global Id: T0608100183
Status: Completed - Case Closed
Status Date: 07/28/1999

Global Id: T0608100183
Status: Open - Case Begin Date
Status Date: 04/02/1990

Regulatory Activities:
Global Id: T0608100183
Action Type: Other
Date: 06/11/1990
Action: Leak Discovery

Global Id: T0608100183
Action Type: ENFORCEMENT
Date: 06/20/1991
Action: Notice of Responsibility - #1

Global Id: T0608100183
Action Type: Other
Date: 04/02/1990
Action: Leak Reported

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330088
Facility Status: 9- Case Closed
Global ID: T0608100183
APN Number: 054172100
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0192

J54 **R A DE LUCA** **CA LUST** **S104493944**
West **832 BARRON AVE** **CA SWEEPS UST** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.432 mi.
2283 ft. **Site 2 of 2 in cluster J**

Relative:
Higher

Actual:
15 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330088
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
Date Leak Confirmed: Not reported

R A DE LUCA (Continued) **S104493944**

Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: Not reported
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 330019
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: 41-000-330019-000001
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 1

Status: Active
Comp Number: 330019
Number: 9
Board Of Equalization: Not reported
Referral Date: 11-03-93
Action Date: 11-03-93
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

K55 **DELUCCHI PROPERTY** **CA LUST** **S101308677**
ESE **995 MARSH** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.440 mi.
2321 ft. **Site 1 of 6 in cluster K**

Relative:
Higher

Actual:
23 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330050
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown

DELUCCHI PROPERTY (Continued) **S101308677**

Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 1/1/1965
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: Not reported

K56 **DELUCCHI PROPERTY** **CA LUST S103893021**
ESE **995 MARSH ROAD** **CA HIST CORTESE N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.440 mi.
2321 ft. **Site 2 of 6 in cluster K**

Relative:
Higher

Actual:
23 ft.

LUST:
Region: STATE
Global Id: T0608100186
Latitude: 37.478489
Longitude: -122.186146
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/08/2003
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0195
LOC Case Number: 330050
File Location: Local Agency Warehouse
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100186
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100186
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

Status History:
Global Id: T0608100186
Status: Completed - Case Closed
Status Date: 04/08/2003

DELUCCHI PROPERTY (Continued) **S103893021**

Global Id: T0608100186
Status: Open - Case Begin Date
Status Date: 03/24/1989

Global Id: T0608100186
Status: Open - Site Assessment
Status Date: 03/24/1989

Regulatory Activities:
Global Id: T0608100186
Action Type: Other
Date: 03/27/1989
Action: Leak Discovery

Global Id: T0608100186
Action Type: ENFORCEMENT
Date: 03/24/1989
Action: Notice of Responsibility - #1

Global Id: T0608100186
Action Type: ENFORCEMENT
Date: 04/08/2003
Action: Closure/No Further Action Letter - #2

Global Id: T0608100186
Action Type: Other
Date: 03/27/1989
Action: Leak Reported

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330050
Facility Status: 9- Case Closed
Global ID: T0608100186
APN Number: 055215150
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0195

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57 **MIDLAND PACIFIC CORP** **CA LUST** **S101308622**
NE **3536 HAVEN** **CA HIST CORTESE** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.447 mi.
2359 ft.

Relative:
Lower

Actual:
12 ft.

LUST:
Region: STATE
Global Id: T0608100330
Latitude: 37.486
Longitude: -122.1865

MIDLAND PACIFIC CORP (Continued) **S101308622**

Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/24/1995
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0345
LOC Case Number:	440031
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100330
Contact Type:	Local Agency Caseworker
Contact Name:	MARC MULLANEY
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	mmullaney@smcgov.org
Phone Number:	6503726289

Global Id:	T0608100330
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

Status History:

Global Id:	T0608100330
Status:	Completed - Case Closed
Status Date:	10/24/1995

Global Id:	T0608100330
Status:	Open - Case Begin Date
Status Date:	08/08/1990

Regulatory Activities:

Global Id:	T0608100330
Action Type:	Other
Date:	08/08/1990
Action:	Leak Reported

Global Id:	T0608100330
Action Type:	Other
Date:	05/21/1992
Action:	Leak Discovery

Global Id:	T0608100330
Action Type:	ENFORCEMENT
Date:	10/10/1990

MIDLAND PACIFIC CORP (Continued) **S101308622**

Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 440031
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 440031
Facility Status: 9- Case Closed
Global ID: T0608100330
APN Number: 055122340
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0345

---

58 **SEARS MERCHANDISE GROUP** **CA LUST** **S104493985**
NW **1325 DOUGLAS** **CA HIST CORTESE** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.449 mi.
2371 ft.

Relative:
Lower

Actual:
9 ft.

LUST:
Region: STATE
Global Id: T0608100843
Latitude: 37.4868709
Longitude: -122.2058476
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/07/1995
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0915
LOC Case Number: 330131
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)

SEARS MERCHANDISE GROUP (Continued) **S104493985**

Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100843
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100843
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

Status History:
Global Id: T0608100843
Status: Completed - Case Closed
Status Date: 12/07/1995

Global Id: T0608100843
Status: Open - Case Begin Date
Status Date: 05/12/1995

Regulatory Activities:
Global Id: T0608100843
Action Type: Other
Date: 05/12/1995
Action: Leak Discovery

Global Id: T0608100843
Action Type: Other
Date: 05/12/1995
Action: Leak Reported

Global Id: T0608100843
Action Type: ENFORCEMENT
Date: 05/18/1995
Action: Notice of Responsibility - #1

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 330131
How Discovered: OM

SEARS MERCHANDISE GROUP (Continued) **S104493985**

Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330131
Facility Status: 9- Case Closed
Global ID: T0608100843
APN Number: 054133190
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0915

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59 **REDWOOD MOTOR COURT** **CA LUST** **S104973101**
ENE **3706 ROLISON ROAD** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.467 mi.
2467 ft.

Relative:
Lower

Actual:
13 ft.

LUST:
Region: STATE
Global Id: T0608114600
Latitude: 37.484315
Longitude: -122.185691
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/20/2012
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-4021
LOC Case Number: 330187
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Lead, Gasoline
Site History: Can be extracted from most recent report in Geotracker or at San Mateo County offices if submitted prior to 2005, San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report.

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608114600

REDWOOD MOTOR COURT (Continued) **S104973101**

Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608114600
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

Status History:
Global Id: T0608114600
Status: Completed - Case Closed
Status Date: 01/20/2012

Global Id: T0608114600
Status: Open - Case Begin Date
Status Date: 06/08/2000

Global Id: T0608114600
Status: Open - Site Assessment
Status Date: 06/08/2000

Regulatory Activities:
Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 08/04/2009
Action: Staff Letter - #20090804

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 08/31/2010
Action: Notice of Violation - #20100831

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 06/22/2009
Action: Staff Letter - #20090622

Global Id: T0608114600
Action Type: RESPONSE
Date: 12/31/2009
Action: Site Assessment Report

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 08/21/2008
Action: Notice of Violation - #20080821

REDWOOD MOTOR COURT (Continued) **S104973101**

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 01/28/2002
Action: Staff Letter - #20020128

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 08/13/2007
Action: Staff Letter - #20070813

Global Id: T0608114600
Action Type: Other
Date: 07/17/2000
Action: Leak Reported

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 07/31/2001
Action: Staff Letter - #20010731

Global Id: T0608114600
Action Type: RESPONSE
Date: 03/14/2002
Action: Other Report / Document

Global Id: T0608114600
Action Type: RESPONSE
Date: 12/12/2007
Action: Soil and Water Investigation Workplan

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 11/16/2010
Action: Notice of Violation - #20101116

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 06/07/2001
Action: Notice of Responsibility - #20010607

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 05/22/2008
Action: Notice of Violation - #20080522

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 12/13/2011
Action: File Review - Closure - #20111213

Global Id: T0608114600
Action Type: ENFORCEMENT
Date: 01/20/2012
Action: Closure/No Further Action Letter - #20120120

Global Id: T0608114600
Action Type: RESPONSE

REDWOOD MOTOR COURT (Continued) **S104973101**

Date: 11/27/2001
Action: Soil and Water Investigation Report

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Post remedial action monitoring
Case Number: 330187
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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: 1/1/1965

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330187
Facility Status: 9- Case Closed
Global ID: T0608114600
APN Number: 055161350
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

K60 **CHEVRON** **CA LUST** **S100622903**
ESE **3805 BOHANNON** **CA SWEEPS UST** **N/A**
1/4-1/2 **MENLO PARK, CA 94025** **CA San Mateo Co. BI**
0.469 mi. **CA HIST CORTESE**
2476 ft. **Site 3 of 6 in cluster K**

Relative:
Higher

Actual:
22 ft.

LUST:
Region: STATE
Global Id: T0608100997
Latitude: 37.4787563
Longitude: -122.1854144
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/15/2004
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: MM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-1086
LOC Case Number: 440052
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

CHEVRON (Continued) **S100622903**

Global Id: T0608100997
Contact Type: Local Agency Caseworker
Contact Name: MARC MULLANEY
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: mmullaney@smcgov.org
Phone Number: 6503726289

Global Id: T0608100997
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

Status History:
Global Id: T0608100997
Status: Completed - Case Closed
Status Date: 06/15/2004

Global Id: T0608100997
Status: Open - Case Begin Date
Status Date: 03/31/1998

Global Id: T0608100997
Status: Open - Site Assessment
Status Date: 03/31/1998

Global Id: T0608100997
Status: Open - Verification Monitoring
Status Date: 02/19/2004

Regulatory Activities:
Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 06/26/2001
Action: Staff Letter - #20010626

Global Id: T0608100997
Action Type: RESPONSE
Date: 05/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0608100997
Action Type: RESPONSE
Date: 11/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0608100997
Action Type: RESPONSE
Date: 05/15/2003
Action: Monitoring Report - Quarterly

CHEVRON (Continued) **S100622903**

Global Id: T0608100997
Action Type: RESPONSE
Date: 08/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0608100997
Action Type: RESPONSE
Date: 02/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0608100997
Action Type: RESPONSE
Date: 12/15/2003
Action: Other Report / Document

Global Id: T0608100997
Action Type: RESPONSE
Date: 02/15/2004
Action: Soil and Water Investigation Report

Global Id: T0608100997
Action Type: RESPONSE
Date: 08/30/2004
Action: Unknown

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 12/04/2002
Action: Staff Letter - #20021204

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 06/15/2004
Action: Closure/No Further Action Letter - #20040615

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 04/06/1998
Action: Notice of Responsibility - #1

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 04/14/2004
Action: Staff Letter - #20040414

Global Id: T0608100997
Action Type: ENFORCEMENT
Date: 10/02/2003
Action: Staff Letter - #20031002

Global Id: T0608100997
Action Type: Other
Date: 03/31/1998
Action: Leak Reported

CHEVRON (Continued) **S100622903**

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 440052
Facility Status: 9- Case Closed
Global ID: T0608100997
APN Number: 055251340, 055251280
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

SWEEPS UST:
Status: Active
Comp Number: 440019
Number: 1
Board Of Equalization: 44-025353
Referral Date: 01-28-94
Action Date: 01-28-94
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-440019-000001
Tank Status: A
Capacity: 10000
Active Date: 05-18-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: Active
Comp Number: 440019
Number: 1
Board Of Equalization: 44-025353
Referral Date: 01-28-94
Action Date: 01-28-94
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-440019-000002
Tank Status: A
Capacity: 10000
Active Date: 05-18-93
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 440019
Number: 1
Board Of Equalization: 44-025353
Referral Date: 01-28-94
Action Date: 01-28-94
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-440019-000003
Tank Status: A
Capacity: 10000
Active Date: 05-18-93

CHEVRON (Continued) **S100622903**

Tank Use: M.V. FUEL
STG: P
Content: PLUS UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 440019
Number: 1
Board Of Equalization: 44-025353
Referral Date: 01-28-94
Action Date: 01-28-94
Created Date: 10-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 41-000-440019-000004
Tank Status: A
Capacity: 10000
Active Date: 05-18-93
Tank Use: OIL
STG: W
Content: LEADED GASOL
Number Of Tanks: Not reported

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0014486
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0024903
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0014486
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0024904
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017570
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0028311
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017570
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0004102
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017570
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0025278
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

CHEVRON (Continued) **S100622903**

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-1086

K61 **CHEVRON 9-0754** **CA LUST** **S105030502**
ESE **3805 BOHANNON** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.473 mi.
2495 ft. **Site 4 of 6 in cluster K**

Relative:
Higher

Actual:
22 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 440052
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
Date Leak Confirmed: Not reported
Oversight Program: LUST
Prelim. Site Assesment Wokplan Submitted: Not reported
Preliminary Site Assesment Began: Not reported
Pollution Characterization Began: 1/1/1965
Pollution Remediation Plan Submitted: Not reported
Date Remediation Action Underway: Not reported
Date Post Remedial Action Monitoring Began: 2/19/2004

K62 **BOHANNON PARK** **CA LUST** **S104493817**
ESE **990 MARSH** **N/A**
1/4-1/2 **MENLO PARK, CA 94025**
0.474 mi.
2501 ft. **Site 5 of 6 in cluster K**

Relative:
Higher

Actual:
23 ft.

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 440034
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

K63 **DELTA AUTO REPAIR** **CA LUST** **S101324963**
ESE **990 MARSH** **CA San Mateo Co. BI** **N/A**
1/4-1/2 **MENLO PARK, CA 94025** **CA HIST CORTESE**
0.474 mi.
2501 ft. **Site 6 of 6 in cluster K**

Relative:
Higher

Actual:
23 ft.

LUST:

Region:	STATE
Global Id:	T0608100075
Latitude:	37.477756
Longitude:	-122.184454
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/10/1994
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-0080
LOC Case Number:	440034
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100075
Contact Type:	Local Agency Caseworker
Contact Name:	MARC MULLANEY
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	mmullaney@smcgov.org
Phone Number:	6503726289

Global Id:	T0608100075
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

Status History:

Global Id:	T0608100075
Status:	Completed - Case Closed
Status Date:	02/10/1994

Global Id:	T0608100075
Status:	Open - Case Begin Date
Status Date:	07/25/1990

Regulatory Activities:

Global Id:	T0608100075
Action Type:	Other
Date:	07/25/1990
Action:	Leak Discovery

DELTA AUTO REPAIR (Continued) **S101324963**

Global Id: T0608100075
Action Type: ENFORCEMENT
Date: 06/11/1991
Action: Notice of Responsibility - #1

Global Id: T0608100075
Action Type: Other
Date: 07/25/1990
Action: Leak Reported

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 440034
Facility Status: 9- Case Closed
Global ID: T0608100075
APN Number: 055252070
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0001882
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0011480
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0001882
Prog Element Code: STORES MV FUELS OR WASTE ONLY
Record Id: PR0004162
Description: STORES MV FUELS OR WASTE ONLY
Facility Status: INACTIVE

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-0080

L64 **GENERAL CIRCUITS INC.** **SEMS-ARCHIVE** **1000214027**
NE **3549 J HAVEN AVENUE** **CORRACTS** **CAD074665704**
1/4-1/2 **MENLO PARK, CA 94025** **RCRA-TSDF**
0.482 mi. **RCRA-SQG**
2543 ft. **Site 1 of 3 in cluster L** **CA ENVIROSTOR**
FINDS
Relative: **ECHO**
Lower **CA HWP**

Actual: **12 ft.**

SEMS-ARCHIVE:
Site ID: 903283
EPA ID: CAD074665704
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

GENERAL CIRCUITS INC. (Continued) **1000214027**

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0903283
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13287621.00000
Person ID: 13003854.00000

Contact Sequence ID: 13293216.00000
Person ID: 13003858.00000

Contact Sequence ID: 13299074.00000
Person ID: 13004003.00000

Program Priority:
Description: RCRA Deferral - New Decision

CERCLIS-NFRAP Assessment History:
Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/23/96
Priority Level: Not reported

Action: DISCOVERY
Date Started: / /
Date Completed: 08/24/90
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 03/28/91
Priority Level: Deferred to RCRA (Subtitle C)

CORRACTS:

EPA ID: CAD074665704
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910328
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 334419
Other Electronic Component Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 09/01/1996
Facility name: GENERAL CIRCUITS INC.
Facility address: 3549 J HAVEN AVENUE
MENLO PARK, CA 94025
EPA ID: CAD074665704

GENERAL CIRCUITS INC. (Continued) **1000214027**

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: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: GENERAL CIRCUITS, INC.
Owner/operator address: 3549 J HAVEN AVENUE
CITY NOT REPORTED, CA 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 364-7717
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: HAVEN ASSOCIATES
Owner/operator address: 100 HARBOR BLVD
BELMONT, CA 94002
Owner/operator country: Not reported
Owner/operator telephone: (415) 592-0933
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: 11/17/1980
Site name: GENERAL CIRCUITS INC.
Classification: Large Quantity Generator

GENERAL CIRCUITS INC. (Continued) **1000214027**

Corrective Action Summary:
Event date: 01/01/1990
Event: CA029ST

Event date: 03/28/1991
Event: CA074LO

Event date: 03/28/1991
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 03/28/1991
Event: CA049PA

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/01/1989
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/08/1989
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: Generators - General
Date violation determined: 05/01/1989
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: FINAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 07/22/1992
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: Generators - General
Date violation determined: 05/01/1989
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 06/08/1989
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

GENERAL CIRCUITS INC. (Continued) **1000214027**

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/01/1989
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 10/02/1989
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: Generators - General
Date violation determined: 05/05/1987
Date achieved compliance: 07/22/1992
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: 05/05/1987
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/18/1987
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: Generators - General
Date violation determined: 04/12/1984
Date achieved compliance: 07/22/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/12/1984
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

GENERAL CIRCUITS INC. (Continued) **1000214027**

Evaluation Action Summary:
Evaluation date: 05/16/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/01/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/22/1992
Evaluation lead agency: State

Evaluation date: 09/02/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/05/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/22/1992
Evaluation lead agency: State

Evaluation date: 04/12/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/22/1992
Evaluation lead agency: State

ENVIROSTOR:
Facility ID: 80001670
Status: Refer: EPA
Status Date: 01/01/2008
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: US EPA
Lead Agency: S EP
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: 37.48725
Longitude: -122.1885
APN: 055130310
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED

GENERAL CIRCUITS INC. (Continued) **1000214027**

Potential Description: NONE SPECIFIED
Alias Name: 055130310
Alias Type: APN
Alias Name: CAD074665704
Alias Type: EPA Identification Number
Alias Name: 110000609805
Alias Type: EPA (FRS #)
Alias Name: 80001670
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: 03/28/1991
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

FINDS:

Registry ID: 110000609805

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: 1000214027
Registry ID: 110000609805
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110000609805

HWP:
EPA Id: CAD074665704
Cleanup Status: PROTECTIVE FILER
Latitude: 37.48596
Longitude: -122.1876
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported

GENERAL CIRCUITS INC. (Continued) **1000214027**

Supervisor: Not reported
Site Code: Not reported
Assembly District: 22
Senate District: 13
Public Information Officer: Not reported
Public Information Officer: Not reported

Activities:
EPA Id: CAD074665704
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKTRT1
Event Description: Protective Filer Status - PROTECTIVE FILER (APPROVED)
Actual Date: 11/07/1989

Alias:
EPA Id: CAD074665704
Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110000609805

M65 **CALTRANS DISTRICT 4** **RCRA-SQG 1000419501**
NW **2501 E BAYSHORE BLVD** **CA LUST CAD982028961**
1/4-1/2 **REDWOOD CITY, CA 94063** **FINDS**
0.488 mi. **ECHO**
2575 ft. **Site 1 of 3 in cluster M**

Relative:
Lower

Actual:
8 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: CALTRANS DISTRICT 4
Facility address: 2501 E BAYSHORE BLVD
REDWOOD CITY, CA 94063
EPA ID: CAD982028961
Mailing address: E BAYSHORE BLVD
REDWOOD CITY, CA 94063
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
Legal status: State
Owner/Operator Type: Operator

CALTRANS DISTRICT 4 (Continued) **1000419501**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: CALIFORNIA DEPARTMENT OF TRANSPORTATION
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: State
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 339203
Facility Status: 9- Case Closed
Global ID: T0608197613
APN Number: 054131100
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

Region: SAN MATEO
Facility ID: 330147
Facility Status: 9- Case Closed
Global ID: T0608100923
APN Number: 054131100
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

FINDS:

Registry ID: 110002781945

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,

CALTRANS DISTRICT 4 (Continued) **1000419501**

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:	1000419501
Registry ID:	110002781945
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002781945

M66 **CALTRANS MAINTENANCE FACILITY** **CA LUST** **S103064831**
NW **2501 EAST BAYSHORE ROAD** **CA SLIC** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063** **CA HIST CORTESE**
0.488 mi.
2575 ft. **Site 2 of 3 in cluster M**

Relative:
Lower

Actual:
8 ft.

LUST:

Region:	STATE
Global Id:	T0608100923
Latitude:	37.487580045
Longitude:	-122.199651549
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/30/2006
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	DGM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1009
LOC Case Number:	330147
File Location:	Local Agency Warehouse
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100923
Contact Type:	Local Agency Caseworker
Contact Name:	DENO MILANO
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	dmilano@smcgov.org
Phone Number:	6503726292

Global Id:	T0608100923
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

CALTRANS MAINTENANCE FACILITY (Continued) **S103064831**

Status History:

Global Id:	T0608100923
Status:	Completed - Case Closed
Status Date:	01/30/2006
Global Id:	T0608100923
Status:	Open - Case Begin Date
Status Date:	06/05/1996
Global Id:	T0608100923
Status:	Open - Site Assessment
Status Date:	09/13/1996

Regulatory Activities:

Global Id:	T0608100923
Action Type:	Other
Date:	06/05/1996
Action:	Leak Discovery
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	12/17/1996
Action:	Notice of Responsibility - #1
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	01/30/2006
Action:	Closure/No Further Action Letter - #20060130
Global Id:	T0608100923
Action Type:	Other
Date:	09/13/1996
Action:	Leak Reported
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	03/12/2004
Action:	Staff Letter - #20040312
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	07/20/2004
Action:	Staff Letter - #20040720
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	11/10/2005
Action:	Staff Letter - #20051110
Global Id:	T0608100923
Action Type:	ENFORCEMENT
Date:	10/27/2005
Action:	Staff Letter - #20051027
Global Id:	T0608100923
Action Type:	RESPONSE

CALTRANS MAINTENANCE FACILITY (Continued) **S103064831**

Date: 11/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0608100923
Action Type: RESPONSE
Date: 08/31/2004
Action: Other Report / Document

Global Id: T0608100923
Action Type: RESPONSE
Date: 12/30/2005
Action: Other Report / Document

Global Id: T0608100923
Action Type: RESPONSE
Date: 01/31/2006
Action: Electronic Reporting Submittal Due

Global Id: T0608100923
Action Type: RESPONSE
Date: 01/31/2006
Action: Unknown

Global Id: T0608100923
Action Type: REMEDIATION
Date: 06/05/1996
Action: Pump & Treat (P&T) Groundwater

Global Id: T0608100923
Action Type: REMEDIATION
Date: 06/05/1996
Action: Excavation

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/27/2010
Global Id: T0608197613
Lead Agency: SAN MATEO COUNTY LOP
Lead Agency Case Number: 339203
Latitude: 37.487201
Longitude: -122.201029
Case Type: Cleanup Program Site
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern: Alcohols, Other Insecticides / Pesticide / Fumigants / Herbicides
Site History: Extracted from GeoCon's December 2005 Revised Additional Site Investigation Report, San Mateo County does not take responsibility for the accuracy of the statements made or any professional interpretations made in the referenced report. The site is located at 5201 East Bayshore Road in Redwood City, California. The site is developed with an equipment repair building, Caltrans crew office, storage building and loading dock, and a vehicle wash rack. The wash

CALTRANS MAINTENANCE FACILITY (Continued) **S103064831**

rack is located in the northern corner of the Redwood City Caltrans facility. The maintenance yard is used to store and repair Caltrans vehicles. The maintenance facility is bounded by East Bayshore Boulevard to the south, a mobile home storage facility to the north, a commercial building to the east, and a paved lot to the west. The former Cargill Salt Ponds are located approximately 450 north of the Caltrans Redwood City Maintenance Yard. In 1996, a soil and groundwater investigation was conducted by Professional Service Industries, Inc. (PSI) in the immediate vicinity of the wash rack. The wash rack had not yet been constructed when PSI conducted their investigation. At that time, the purpose of the investigation was to evaluate the likelihood that workers excavating soil during the construction of the wash rack would come in contact with impacted soil and gnundwater. Three soil borings (RW1, RW3, and RW3) were advanced around the perimeter of the wash rack location as depicted on Figure 2, Sample Location Map, and soil and grab groundwater samples were collected for laboratory analysis. The soil and groundwater samples were analyzed for total recoverable petroleum hydrocarbon compounds (TRPH), total petroleum hydrocarbon compounds as gasoline (TPHg), as diesel (TPHd), polychlorinated biphenyls (PCBs), California Assessment Manual (CAM 17) metals, pesticides and herbicides, chlorinated herbicides, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), ethylene glycol, and pH. TRPH, TPHg, TPHd, PCBs, VOCs, and SVOCs were reported as non-detect in all soil and grab groundwater samples analyzed for these constituents. Analytical laboratory results indicated that dinoseb, a chlorinated herbicide, was detected at concentrations ranging from 0.02 to 0.04 milligrams per kilogram (mg/kg) in near surface soil samples collected from each soil boring location. Dinoseb was not detected above the laboratory reporting limit concentration in the grab groundwater sample collected from RW-3 (grab groundwater samples were not collected from soil borings RWI and RW2). The grab groundwater sample collected from RW3 was reported to contain ethylene glycol at a concentration of 30 milligrams per liter (mg/l); and cadmium and selenium at concentrations of 0.04 mg/l and 0.07 mg/l, respectively, both of which exceed State of California maximum contaminant levels (MCLs) established for drinking water. Based on the soil and groundwater sample results reported during the 1996 investigation, and available San Mateo County Department of Health Services (DHS) correspondence, the DHS required that additional investigation be conducted to show "the residual, onsite concentrations of the chemicals of concern have been adequately assessed and do not pose a risk to public health and the environment." Based on the comments received from the DHS, PSI prepared a workplan in early 2004 to conduct additional investigation in the immediate vicinity of the wash rack. The scope of services described in this report are based on information contained in the PSI workplan, subsequent DHS and Caltrans correspondence.

Click here to access the California GeoTracker records for this facility:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	41
Reg By:	LTNKA
Reg Id:	41-1009

M67 **CALTRANS-REDWOOD CITY** **CA LUST** **S103723165**
NW **2501 BAYSHORE** **CA San Mateo Co. BI** **N/A**
1/4-1/2 **REDWOOD CITY, CA 94063**
0.488 mi.
2575 ft. **Site 3 of 3 in cluster M**

Relative:
Lower

Actual:
8 ft.

LUST REG 2:

Region:	2
Facility Id:	Not reported
Facility Status:	Pollution Characterization
Case Number:	330147
How Discovered:	Tank Closure
Leak Cause:	Unknown
Leak Source:	Unknown
Date Leak Confirmed:	Not reported
Oversight Program:	LUST
Prelim. Site Assesment Wokplan Submitted:	Not reported
Preliminary Site Assesment Began:	Not reported
Pollution Characterization Began:	9/13/1996
Pollution Remediation Plan Submitted:	Not reported
Date Remediation Action Underway:	Not reported
Date Post Remedial Action Monitoring Began:	Not reported

San Mateo Co. BI:

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id:	PR0024291
Description:	GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	LESS THAN 500 TIRES
Record Id:	PR0045654
Description:	LESS THAN 500 TIRES
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id:	PR0024290
Description:	STORES HAZ MAT <1,199GAL,9,999LB,4,799CF
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	2353
Record Id:	PR0066750
Description:	TANK STOR CAP =>1,320 & <10,000 GAL
Facility Status:	ACTIVE

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	2353
Record Id:	PR0034109
Description:	TANK STOR CAP =>1,320 & <10,000 GAL
Facility Status:	INACTIVE

CALTRANS-REDWOOD CITY (Continued) **S103723165**

Region:	SAN MATEO
Facility ID:	FA0022431
Prog Element Code:	UNDERGROUND TANK - GENERAL
Record Id:	PR0024289
Description:	UNDERGROUND TANK - GENERAL
Facility Status:	INACTIVE

68
SE
1/4-1/2
0.498 mi.
2630 ft.

MARSH ROAD DELI
763 MARSH
MENLO PARK, CA 94025

CA LUST **S102628214**
CA San Mateo Co. BI **N/A**
CA HIST CORTESE

Relative:
Higher

Actual:
27 ft.

LUST:

Region:	STATE
Global Id:	T0608100932
Latitude:	37.474397
Longitude:	-122.188432
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/21/2000
Lead Agency:	SAN MATEO COUNTY LOP
Case Worker:	MM
Local Agency:	SAN MATEO COUNTY LOP
RB Case Number:	41-1019
LOC Case Number:	440048
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0608100932
Contact Type:	Local Agency Caseworker
Contact Name:	MARC MULLANEY
Organization Name:	SAN MATEO COUNTY LOP
Address:	2000 ALAMEDA DE LAS PULGAS
City:	SAN MATEO
Email:	mmullaney@smcgov.org
Phone Number:	6503726289

Global Id:	T0608100932
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

Status History:

Global Id:	T0608100932
Status:	Completed - Case Closed
Status Date:	04/21/2000

Global Id:	T0608100932

MARSH ROAD DELI (Continued) **S102628214**

Status: Open - Case Begin Date
Status Date: 05/02/1997

Regulatory Activities:
Global Id: T0608100932
Action Type: ENFORCEMENT
Date: 06/10/1997
Action: Notice of Responsibility - #1

Global Id: T0608100932
Action Type: Other
Date: 05/02/1997
Action: Leak Reported

LUST REG 2:
Region: 2
Facility Id: Not reported
Facility Status: Case Closed
Case Number: 440048
How Discovered: OM
Leak Cause: Unknown
Leak Source: Unknown
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

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 440048
Facility Status: 9- Case Closed
Global ID: T0608100932
APN Number: 060143370
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0037357
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0054224
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF
Facility Status: ACTIVE

Region: SAN MATEO
Facility ID: FA0022668
Prog Element Code: UNDERGROUND TANK - GENERAL
Record Id: PR0025215
Description: UNDERGROUND TANK - GENERAL
Facility Status: INACTIVE

MARSH ROAD DELI (Continued) **S102628214**

HIST CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: LTNKA
Reg Id: 41-1019

L69
NE
1/2-1
0.523 mi.
2763 ft.

GENERAL CIRCUITS INC
3585 HAVEN AVENUE
MENLO PARK, CA 94025

Site 2 of 3 in cluster L

CA ENVIROSTOR **1000214038**
CA HIST UST **N/A**
CA San Mateo Co. BI
CA HWP

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:
Facility ID: 80001497
Status: Inactive - Needs Evaluation
Status Date: 06/29/2009
Site Code: Not reported
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Julie Pettijohn
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.48660
Longitude: -122.1859
APN: 055130240
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 055130240
Alias Type: APN
Alias Name: CAD982462335
Alias Type: EPA Identification Number
Alias Name: 80001497
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: 03/08/1991
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

GENERAL CIRCUITS INC (Continued) **1000214038**

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: 0002BECC
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002BECC.pdf
Region: STATE
Facility ID: 00000000648
Facility Type: Other
Other Type: CIRCUIT MFC.
Contact Name: BOB GRAY
Telephone: 4153647717
Owner Name: GENERAL CIRCUITS, INCORPORATED
Owner Address: 3585 HAVEN AVENUE
Owner City,St,Zip: MENLO PARK, CA 94025
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1982
Tank Capacity: 00000115
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 3
Leak Detection: Visual

Click here for Geo Tracker PDF:

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0022969
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0025929
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0022969
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0025930
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0027450
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0043624
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0027450
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0043623

GENERAL CIRCUITS INC (Continued) **1000214038**

Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

HWP:
EPA Id: CAD982462335
Cleanup Status: KNOWN GENERATORS
Latitude: 37.48605
Longitude: -122.1864
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: Not reported
Assembly District: 22
Senate District: 13
Public Information Officer: Not reported
Public Information Officer: Not reported

L70 **GENERAL CIRCUITS INC** **SEMS-ARCHIVE** **1000214026**
NE **3585 HAVEN AVENUE** **CORRACTS** **CAD982462335**
1/2-1 **MENLO PARK, CA 94025** **RCRA-SQG**
0.523 mi. **CA HAZNET**
2763 ft. **Site 3 of 3 in cluster L**

Relative:
Lower

Actual:
11 ft.

SEMS-ARCHIVE:
Site ID: 903257
EPA ID: CAD982462335
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0903257
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13287086.00000
Person ID: 13003854.00000

Contact Sequence ID: 13292681.00000
Person ID: 13003858.00000

Contact Sequence ID: 13298539.00000
Person ID: 13004003.00000

Program Priority:
Description: RCRA Deferral Audit

Description: RCRA Deferral - New Decision

Description: RCRA Deferral - Further Superfund Assessment

CERCLIS-NFRAP Assessment History:
Action: PRELIMINARY ASSESSMENT

GENERAL CIRCUITS INC (Continued) **1000214026**

Date Started: / /
Date Completed: 03/08/91
Priority Level: Deferred to RCRA (Subtitle C)

Action: DISCOVERY
Date Started: / /
Date Completed: 10/18/90
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/23/96
Priority Level: Not reported

CORRACTS:

EPA ID: CAD982462335
EPA Region: 9
Area Name: ENTIRE FACILITY
Actual Date: 19910308
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: GENERAL CIRCUITS INC
Facility address: 3585 HAVEN AVENUE
MENLO PARK, CA 94025
EPA ID: CAD982462335
Mailing address: 3601 HAVEN AVENUE
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
Legal status: Private

GENERAL CIRCUITS INC (Continued) **1000214026**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: GENERAL CIRCUITS INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
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: 01/09/1989
Site name: GENERAL CIRCUITS INC
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 03/08/1991
Event: CA049PA

Event date: 03/08/1991
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 03/08/1991
Event: CA074LO

Violation Status: No violations found

HAZNET:
envid: 1000214026
Year: 1993
GEPAID: CAD982462335
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported

GENERAL CIRCUITS INC (Continued) **1000214026**

Mailing Address: 3601 HAVEN AVENUE
Mailing City,St,Zip: MENLO PARK, CA 940250000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Land Fill
Tons: 1
Cat Decode: Not reported
Method Decode: Not reported
Facility County: San Mateo

N71 **KLIKLOK CO. (BUILDING #4)** **CA ENVIROSTOR S101482216**
West **2661 SPRING** **CA HIST CORTESE N/A**
1/2-1 **REDWOOD CITY, CA 90000**
0.684 mi.
3610 ft. **Site 1 of 2 in cluster N**

Relative:
Higher

Actual:
16 ft.

ENVIROSTOR:
Facility ID: 41340063
Status: Inactive - Needs Evaluation
Status Date: 10/25/2005
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: < 1
NPL: NO
Regulatory Agencies: SMBRP, SAN MATEO COUNTY
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Assembly: 24
Senate: 13
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.48264
Longitude: -122.2080
APN: 054161130
Past Use: METAL PLATING - CHROME, METAL PLATING - OTHER
Potential COC: Aluminum Cadmium and compounds Chromium III Copper and compounds Cyanide (free Nickel
Confirmed COC: Aluminum Cadmium and compounds Chromium III Copper and compounds Cyanide (free Nickel
Potential Description: OTH, SOIL
Alias Name: SUNSET PLATING INC
Alias Type: Alternate Name
Alias Name: 054161130
Alias Type: APN
Alias Name: 41340063
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery

KLIKLOK CO. (BUILDING #4) (Continued) **S101482216**

Completed Date: 01/15/1981
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 11/04/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/20/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/22/2002
Comments: Site screening completed. Preliminary endangerment assessment required.

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 CORTESE:
Region: CORTESE
Facility County Code: 41
Reg By: CALSI
Reg Id: 41340063

N72 **UNKNOWN** **CA Notify 65** **S100179087**
WNW **860 HURLINGAMES** **N/A**
1/2-1 **REDWOOD CITY, CA 92257**
0.685 mi.
3618 ft. **Site 2 of 2 in cluster N**

Relative:
Higher

Actual:
14 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

73
WNW
1/2-1
0.745 mi.
3935 ft.

PETERSEN PRECISION ENGINEERING, LLC
611 BROADWAY STREET
REDWOOD CITY, CA 94063

CA ENVIROSTOR **S118757206**
N/A

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:

Facility ID:	60001134
Status:	No Action Required
Status Date:	06/24/2010
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Denise Tsuji
Division Branch:	Cleanup Berkeley
Assembly:	22
Senate:	13
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	37.48570
Longitude:	-122.2080
APN:	054-050-050, 054-050-160
Past Use:	MACHINE SHOP
Potential COC:	Under Investigation Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	30022-NO 30027-NO 31001-NO
Potential Description:	OTH, SOIL
Alias Name:	054-050-050
Alias Type:	APN
Alias Name:	054-050-160
Alias Type:	APN
Alias Name:	60001134
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	07/15/2009
Comments:	Mailed out certified letter on July 15, 2009.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	06/24/2010
Comments:	Site Screening final & signed. Groundwater from upgradient contains TCE & PCE. No data pointing subject site as source of contamination. Potential source is unknown upgradient.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	09/14/2009
Comments:	Ampex Corporation respondence of the info request dated Aug. 11, 2009.

PETERSEN PRECISION ENGINEERING, LLC (Continued) **S118757206**

Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	09/22/2009
Comments:	Petersen Precision Engineering respondence of info request dated Aug. 10, 2009.
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

74
ENE
1/2-1
0.868 mi.
4584 ft.

SEIBERT, J., MACHINE CORP **CA ENVIROSTOR** **S101482217**
119 INDEPENDENCE DR. **CA San Mateo Co. BI** **N/A**
MENLO PARK, CA 94025

Relative:
Lower

Actual:
11 ft.

ENVIROSTOR:

Facility ID:	41350016
Status:	Refer: Other Agency
Status Date:	03/31/1995
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:	37.48393
Longitude:	-122.1777
APN:	055236180
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	055236180
Alias Type:	APN
Alias Name:	41350016
Alias Type:	Envirostor ID Number

Completed Info:

SEIBERT, J., MACHINE CORP (Continued) **S101482217**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 08/01/1980
Comments: FACILITY IDENTIFIED INACTIVE SITE I.D.'D IN INITIAL RESEARCH

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/01/1988
Comments: SITE SCREENING DONE NEED MORE INFO

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

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0024825
Prog Element Code: GENERATES <27 GAL/YEAR
Record Id: PR0030764
Description: GENERATES <27 GAL/YEAR
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0024825
Prog Element Code: STORES HAZ MAT <219GAL,1,999LB, 879FT3
Record Id: PR0030763
Description: STORES HAZ MAT <219GAL,1,999LB, 879CF
Facility Status: INACTIVE

O75 **COORS WEST** **CA LUST** **S100178861**
WNW **890 BROADWAY** **CA Notify 65** **N/A**
1/2-1 **REDWOOD CITY, CA 94063**
0.892 mi.
4711 ft. **Site 1 of 2 in cluster O**

Relative:
Lower

Actual:
12 ft.

LUST:
Region: STATE
Global Id: T0608100270
Latitude: 37.485947
Longitude: -122.209245
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/03/1995
Lead Agency: SAN MATEO COUNTY LOP
Case Worker: DGM
Local Agency: SAN MATEO COUNTY LOP
RB Case Number: 41-0284
LOC Case Number: 330031
File Location: Local Agency Warehouse

COORS WEST (Continued) **S100178861**

Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0608100270
Contact Type: Local Agency Caseworker
Contact Name: DENO MILANO
Organization Name: SAN MATEO COUNTY LOP
Address: 2000 ALAMEDA DE LAS PULGAS
City: SAN MATEO
Email: dmilano@smcgov.org
Phone Number: 6503726292

Global Id: T0608100270
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

Status History:
Global Id: T0608100270
Status: Completed - Case Closed
Status Date: 07/03/1995

Global Id: T0608100270
Status: Open - Case Begin Date
Status Date: 12/20/1988

Regulatory Activities:
Global Id: T0608100270
Action Type: Other
Date: 12/20/1988
Action: Leak Reported

Global Id: T0608100270
Action Type: ENFORCEMENT
Date: 12/20/1988
Action: Notice of Responsibility - #1

SAN MATEO CO. LUST:
Region: SAN MATEO
Facility ID: 330031
Facility Status: 9- Case Closed
Global ID: T0608100270
APN Number: 054040270
Case Type: SAN MATEO CO. LUST
EDR Link ID: SAN MATEO CO. LUST

COORS WEST (Continued) **S100178861**

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

O76 **TYDEMAN MACHINE WORKS** **CA ENVIROSTOR** **S118756934**
WNW **BROADWAY AND CHARTER** **N/A**
1/2-1 **REDWOOD CITY, CA 94063**
0.927 mi.
4895 ft. **Site 2 of 2 in cluster O**

Relative:
Lower

Actual:
13 ft.

ENVIROSTOR:
Facility ID: 41340062
Status: No Action Required
Status Date: 12/22/2005
Site Code: 201571
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.48
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Assembly: 22
Senate: 13
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.48695
Longitude: -122.2111
APN: 054-023-110
Past Use: MACHINE SHOP
Potential COC: TPH-MOTOR OIL
Confirmed COC: TPH-MOTOR OIL
Potential Description: SOIL
Alias Name: HELLER HELICOPTERS
Alias Type: Alternate Name
Alias Name: 054-023-110
Alias Type: APN
Alias Name: 201571
Alias Type: Project Code (Site Code)
Alias Name: 41340062
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/13/1981
Comments: FACILITY IDENTIFIED ACTIVE SITE ID'DON DRIVEBY DHS, DURING A DRIVE/BY, OBSERVED SOIL STAINING & UNSAFE DRUMS STORAGE AREA FACILITY

TYDEMAN MACHINE WORKS (Continued) **S118756934**

DRIVE-BY EVIDENCE OF WASTE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 01/01/1989
Comments: PRELIM ASSESS DONE NFA: BASED ON AVAILABLE INFORMATION

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/08/1987
Comments: SITE SCREENING DONE OBSERVED NUMEROUS 55 GAL DRUMS, LACK OF VEGITATION AND OIL ON GROUND

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 08/30/2002
Comments: Site screening completed. Preliminary endangerment assessment required.

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

77
WNW
1/2-1
0.934 mi.
4930 ft.

STAR TOOL & ENGINEERING CO INC
860 CHARTER
REDWOOD CITY, CA 94063

CA ENVIROSTOR **S113756409**
CA SLIC **N/A**
CA VCP
CA San Mateo Co. BI

Relative:
Lower

Actual:
13 ft.

ENVIROSTOR:
Facility ID: 60002245
Status: Active
Status Date: 09/28/2015
Site Code: 204277
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 0.4
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Craig Sanchez
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Assembly: , 24
Senate: , 13
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party

STAR TOOL & ENGINEERING CO INC (Continued) **S113756409**

Latitude: 37.48472
Longitude: -122.2119
APN: 054-010-140, 054-081-010
Past Use: UNKNOWN
Potential COC: Under Investigation Benzene Tetrachloroethylene (PCE TPH-diesel TPH-gas 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride
Confirmed COC: Under Investigation
Potential Description: IA, OTH, SOIL, SV, UE
Alias Name: 054-010-140
Alias Type: APN
Alias Name: 054-081-010
Alias Type: APN
Alias Name: 204277
Alias Type: Project Code (Site Code)
Alias Name: 60002245
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Workplan
Completed Date: 06/28/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 09/06/2016
Comments: Not reported

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Future Due Date: 2017
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Preliminary Endangerment Assessment Report
Schedule Due Date: 04/15/2017
Schedule Revised Date: Not reported

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 06/02/2016
Global Id: T10000006424
Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)
Lead Agency Case Number: Not reported
Latitude: 37.4845390879181
Longitude: -122.211878076057
Case Type: Cleanup Program Site
Case Worker: JGU
Local Agency: SAN MATEO 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: Dichloroethene (DCE), Trichloroethylene (TCE), Vinyl chloride, Benzene

STAR TOOL & ENGINEERING CO INC (Continued) **S113756409**

Site History: Phase II investigation identified chlorinated VOCs and benzene in groundwater. The source is unkown. TCE was detected in subslab and subsurface soil vapor samples at 220 a%g/m3 and 2,600 a%g/m3, respectively. the site is currenly used for display of classic automobiles.

Click here to access the California GeoTracker records for this facility:

VCP:

Facility ID:	60002245
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.4
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Craig Sanchez
Supervisor:	Jose Salcedo
Division Branch:	Northern California Schools & Santa Susana
Site Code:	204277
Assembly:	, 24
Senate:	, 13
Special Programs Code:	Not reported
Status:	Active
Status Date:	09/28/2015
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.48472 / -122.2119
APN:	054-010-140, 054-081-010
Past Use:	UNKNOWN
Potential COC:	31001, 30003, 30022, 30024, 30025, 30026, 30027, 30028
Confirmed COC:	31001
Potential Description:	IA, OTH, SOIL, SV, UE
Alias Name:	054-010-140
Alias Type:	APN
Alias Name:	054-081-010
Alias Type:	APN
Alias Name:	204277
Alias Type:	Project Code (Site Code)
Alias Name:	60002245
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Investigation Workplan
Completed Date:	06/28/2016
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	09/06/2016
Comments:	Not reported

STAR TOOL & ENGINEERING CO INC (Continued) **S113756409**

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: CEQA - Initial Study/ Mitigated Neg. Dec. (MND)
Future Due Date: 2017
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Preliminary Endangerment Assessment Report
Schedule Due Date: 04/15/2017
Schedule Revised Date: Not reported

San Mateo Co. BI:
Region: SAN MATEO
Facility ID: FA0017433
Prog Element Code: GENERATES and RECYCLES WASTE OIL/SOLVENT
Record Id: PR0011103
Description: GENERATES & RECYCLES WASTE OIL/SOLVENT
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017433
Prog Element Code: RECYCLER
Record Id: PR0037777
Description: RECYCLER
Facility Status: INACTIVE

Region: SAN MATEO
Facility ID: FA0017433
Prog Element Code: STORES HAZ MAT <1,199GAL,9,999LB,4,799FT3
Record Id: PR0024357
Description: STORES HAZ MAT <1,199GAL,9,999LB,4,799CF
Facility Status: INACTIVE

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78 **UNKNOWN** **CA Notify 65** **S100178957**
SW **197 FIFTH AVENUE** **N/A**
1/2-1 **REDWOOD CITY, CA 92257**
0.953 mi.
5030 ft.

Relative:
Higher

Actual:
38 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

79
WSW
1/2-1
0.991 mi.
5233 ft.

COORS WEST
2700 MIDDLEFIELD ROAD
REDWOOD CITY, CA 92257

CA Notify 65

S100179570
N/A

Relative:
Higher

Actual:
28 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

Count: 7 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MENLO PARK	1003878514	BROWNING-FERRIS INDS	END OF MARSH RD	94025	SEMS-ARCHIVE
MENLO PARK	S100538945	BROWNING-FERRIS INDUSTRIES	END OF MARSH ROAD, EAST OF HIG	94025	CA ENVIROSTOR
MENLO PARK	S113186755	ANTON MENLO	3605- 3639 HAVEN AVE		CA LUST
MENLO PARK	S103472755	HUETTIG & SCHROMM	3700 HAVEN	94025	CA LUST
MENLO PARK	1015732804	MENLO PARK SAN DIST TRMT PLT	1700 MARSH RD EXTN 1	94025	SEMS-ARCHIVE, RCRA NonGen / NL
REDWOOD CITY	S109149555	SEQUOIA ALTERNATIVE SCHOOL	435, 455, 461 5TH AVENUE AND 4	94063	CA ENVIROSTOR, CA SCH
REDWOOD CITY	1003878892	PG&E GAS PLANT REDWOOD CITY	E MARSHALL WASHINGTON BROADWAY	94063	SEMS-ARCHIVE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 04/07/2017
Next Scheduled EDR Contact: 07/17/2017
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: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/31/2017
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: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/25/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
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: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

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: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 11/15/2016
Date Data Arrived at EDR: 11/29/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

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 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: 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 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 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

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

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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/12/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 57
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/16/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

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: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/02/2017
Next Scheduled EDR Contact: 07/03/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 01/13/2017
Date Data Arrived at EDR: 01/17/2017
Date Made Active in Reports: 05/31/2017
Number of Days to Update: 134
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
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: 05/05/2017
Next Scheduled EDR Contact: 08/14/2017
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: 09/30/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
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: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
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: 12/31/2016
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 54

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

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: 09/30/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 67

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 03/09/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
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

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 105

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

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: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 05/19/2017
Next Scheduled EDR Contact: 08/28/2017
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: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
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: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
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: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/03/2017
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: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
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: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
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: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
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: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
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: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
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: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
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: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/06/2017
Next Scheduled EDR Contact: 07/17/2017
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: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

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: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
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: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
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: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
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: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 07/17/2017
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: 03/07/2017
Next Scheduled EDR Contact: 07/10/2017
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: 03/07/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
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: 06/02/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
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: 04/04/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 35

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 04/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
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: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 64
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 42
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
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: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
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: 01/23/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 118

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/07/2017
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: 02/14/2017
Date Data Arrived at EDR: 02/17/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 97

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
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: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/11/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 04/26/2017
Number of Days to Update: 13
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/13/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Varies

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: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/15/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 107
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
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: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 87
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 70
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/03/2017
Next Scheduled EDR Contact: 07/03/2017
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: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/14/2017
Next Scheduled EDR Contact: 06/26/2017
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 board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas 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 Historic Dry 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:

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: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 31

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 37

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 94

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

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: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/23/2017
Date Data Arrived at EDR: 02/24/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 77

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/17/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/26/2017
Number of Days to Update: 65

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/24/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 73

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

FRESNO COUNTY:

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: 04/06/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 40

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/20/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 57

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 36

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 77

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

KINGS COUNTY:

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: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2017
Date Data Arrived at EDR: 01/20/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 41

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

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: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 66
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Date Data Arrived at EDR: 04/18/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 14
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/17/2017
Date Data Arrived at EDR: 01/18/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 112
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Semi-Annually

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: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Date Data Arrived at EDR: 01/13/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 110

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

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: 03/03/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 76

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 54

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 96

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/11/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 85
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 1
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 98
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

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: 11/08/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 105

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

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: 12/09/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

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: 10/05/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/10/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

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: 03/06/2017
Next Scheduled EDR Contact: 06/19/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

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: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/28/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 62
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/21/2017
Date Data Arrived at EDR: 03/23/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 47
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 02/21/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 91
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 33
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 14
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 89
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

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

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/10/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 75

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 47

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/09/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 03/01/2017
Date Data Arrived at EDR: 03/30/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 54

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 01/24/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 114

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List

Cupa facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 113

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

TULARE COUNTY:

CUPA Facility List
Cupa program facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/25/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 34

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

VENTURA COUNTY:

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: 12/27/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 103

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

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: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 89

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2017
Date Data Arrived at EDR: 03/15/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/15/2017
Next Scheduled EDR Contact: 06/26/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
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: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 01/03/2017
Number of Days to Update: 96
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
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: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/13/2017
Next Scheduled EDR Contact: 06/26/2017
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 & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

TAFT COMMUNITY SCHOOL
903 TENTH AVENUE
REDWOOD CITY, CA 94063

TARGET PROPERTY COORDINATES

Latitude (North):	37.481008 - 37° 28' 51.63''
Longitude (West):	122.194425 - 122° 11' 39.93''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	571225.2
UTM Y (Meters):	4148334.5
Elevation:	14 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640620 PALO ALTO, 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 principal 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).

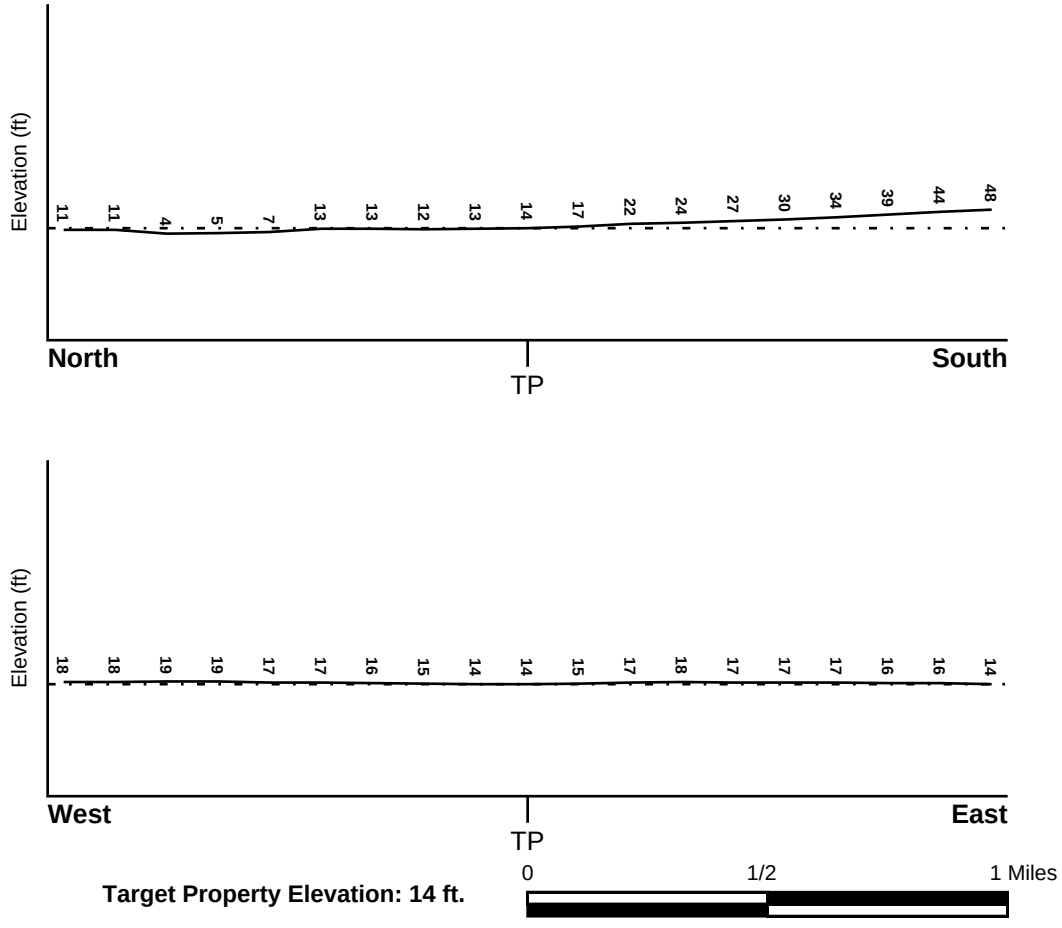
TOPOGRAPHIC INFORMATION

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: 14 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
06081C0302E	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06081C0306E	FEMA FIRM Flood data
0603120000B	FEMA Q3 Flood data
0603110252B	FEMA Q3 Flood data
06081C0308E	FEMA FIRM Flood data
0603110254B	FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PALO ALTO	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
A1	1/8 - 1/4 Mile WSW	Not Reported
A2	1/4 - 1/2 Mile WSW	NNW
B3	1/4 - 1/2 Mile WSW	Not Reported
B4	1/4 - 1/2 Mile WSW	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

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
C5	1/4 - 1/2 Mile West	N
C6	1/4 - 1/2 Mile West	E
8	1/4 - 1/2 Mile West	Not Reported
10	1/4 - 1/2 Mile NW	NE
D11	1/4 - 1/2 Mile NNW	NW
D12	1/4 - 1/2 Mile NNW	NW
13	1/4 - 1/2 Mile West	N
14	1/4 - 1/2 Mile NE	Not Reported
E15	1/4 - 1/2 Mile SSE	Not Reported
E16	1/4 - 1/2 Mile SSE	Not Reported
F17	1/4 - 1/2 Mile NW	W
F18	1/2 - 1 Mile NW	W
G19	1/2 - 1 Mile ESE	NE
G20	1/2 - 1 Mile ESE	NE
G21	1/2 - 1 Mile ESE	N
22	1/2 - 1 Mile SE	N
23	1/2 - 1 Mile ENE	Not Reported
H24	1/2 - 1 Mile SE	NNE
I25	1/2 - 1 Mile WNW	N
I26	1/2 - 1 Mile WNW	N
27	1/2 - 1 Mile West	N
28	1/2 - 1 Mile ESE	Not Reported
H29	1/2 - 1 Mile SSE	Not Reported
H30	1/2 - 1 Mile SSE	Not Reported
32	1/2 - 1 Mile NW	N
I34	1/2 - 1 Mile West	NNE
J35	1/2 - 1 Mile West	WNW
37	1/2 - 1 Mile East	Not Reported
38	1/2 - 1 Mile ENE	NNW
K39	1/2 - 1 Mile West	Not Reported
40	1/2 - 1 Mile SW	NNW
K41	1/2 - 1 Mile West	NE
K42	1/2 - 1 Mile West	NE
43	1/2 - 1 Mile WNW	SW
44	1/2 - 1 Mile East	NE
L45	1/2 - 1 Mile WNW	Not Reported
L46	1/2 - 1 Mile WNW	Not Reported
L47	1/2 - 1 Mile WNW	Not Reported
M48	1/2 - 1 Mile WNW	N
M49	1/2 - 1 Mile WNW	Not Reported
50	1/2 - 1 Mile WSW	NE

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

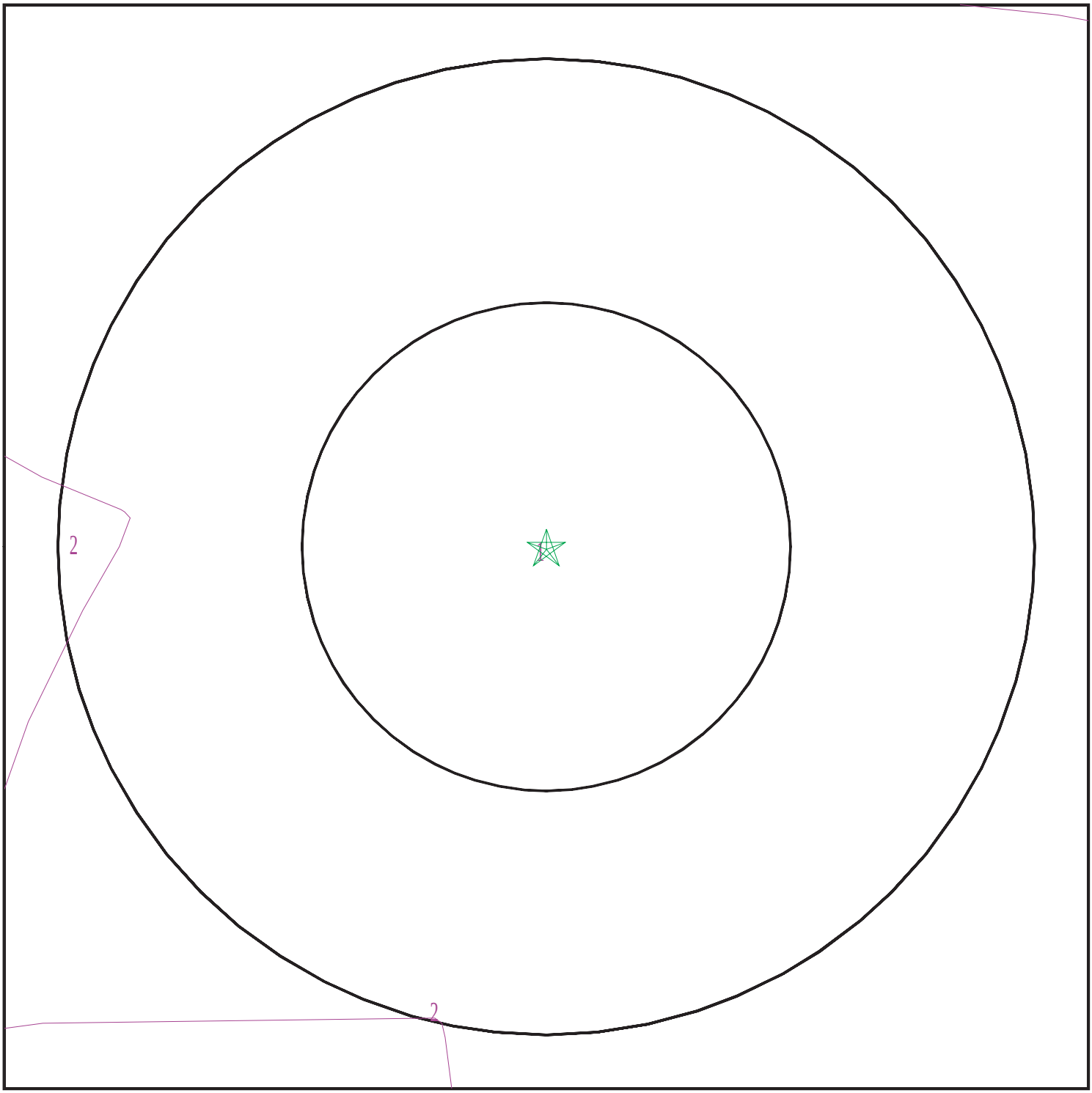
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4955887.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Taft Community School	CLIENT:	McCloskey Consultants Inc
ADDRESS:	903 Tenth Avenue Redwood City CA 94063	CONTACT:	Tom Mccloskey
LAT/LONG:	37.481008 / 122.194425	INQUIRY #:	4955887.2s
		DATE:	June 05, 2017 10:06 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches		Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

Soil Map ID: 2

Soil Component Name: Urban land

Soil Surface Texture:
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches		Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
7	USGS40000183433	1/4 - 1/2 Mile North
9	USGS40000183434	1/4 - 1/2 Mile NNW
31	USGS40000183400	1/2 - 1 Mile ESE
33	USGS40000183382	1/2 - 1 Mile South
51	USGS40000183354	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

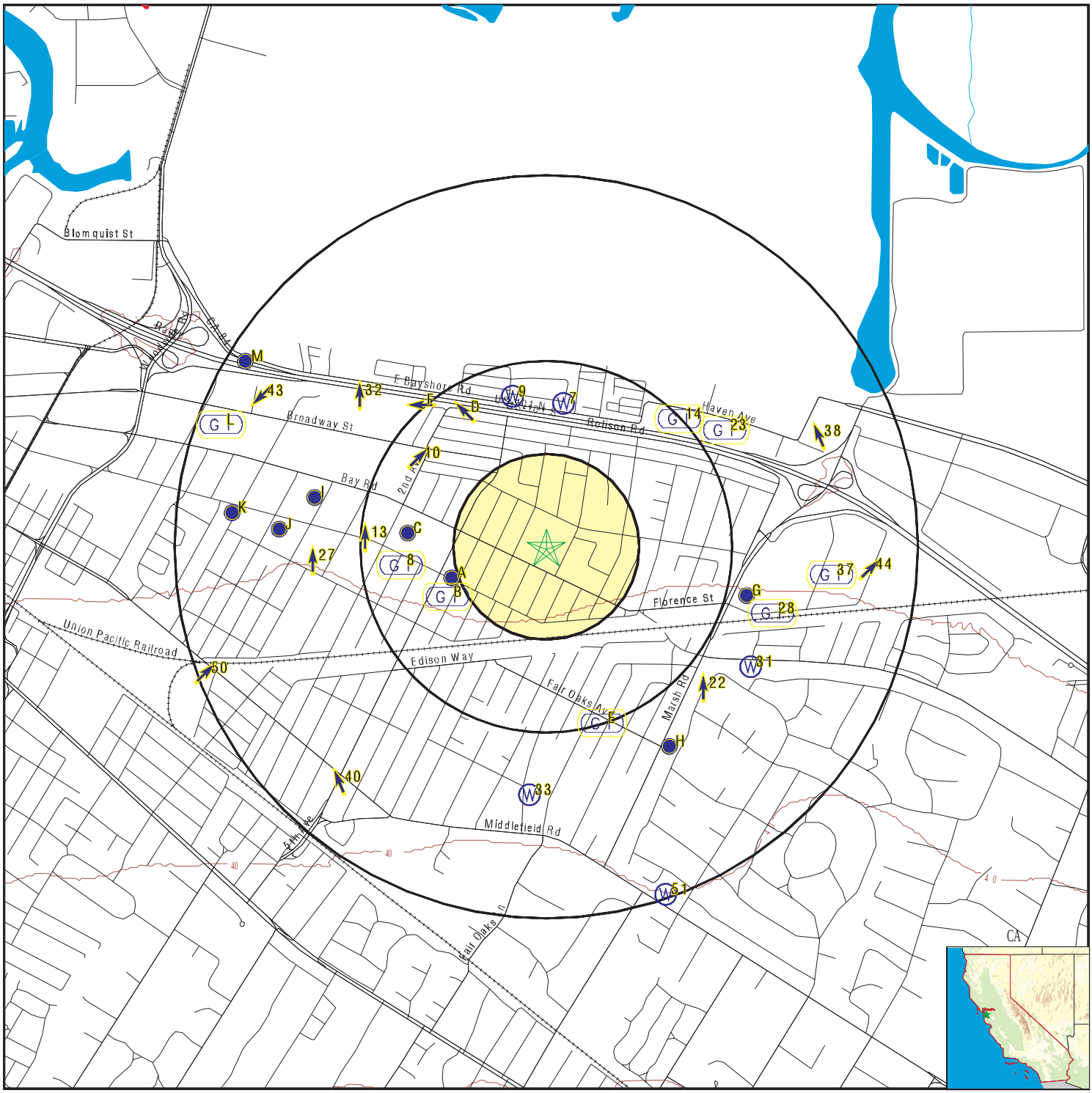
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 4955887.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Taft Community School	CLIENT: McCloskey Consultants Inc
ADDRESS: 903 Tenth Avenue Redwood City CA 94063	CONTACT: Tom Mccloskey
LAT/LONG: 37.481008 / 122.194425	INQUIRY #: 4955887.2s DATE: June 05, 2017 10:05 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
A1 **WSW** **1/8 - 1/4 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0619 Not Reported 8.6 11.03 Not Reported 09/1991	**AQUIFLOW**	**66022**
A2 **WSW** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0045 NNW 10.5 12. Not Reported 12/21/1989	**AQUIFLOW**	**66649**
B3 **WSW** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330039 Not Reported 13.39 14.35 Not Reported 12/03/1992	**AQUIFLOW**	**66004**
B4 **WSW** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0227 Not Reported 13.39 14.35 Not Reported 12/03/1992	**AQUIFLOW**	**66005**
C5 **West** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0398 N 6.05 10.18 Not Reported 03/1996	**AQUIFLOW**	**66028**
C6 **West** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0246 E 8.5 9 Not Reported 10/25/1995	**AQUIFLOW**	**68942**
7 **North** **1/4 - 1/2 Mile** **Lower**			**FED USGS**	**USGS40000183433**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372912122113301		
Monloc name:	005S003W21G002M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4866043
Longitude:	-122.1935762	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.00
Vert measure units:	feet	Vertacc measure val:	001
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel

1980-11-24
Note: The site was flowing, but the head could not be measured without additional equipment.
1980-05-08
Note: The site was flowing, but the head could not be measured without additional equipment.
1979-10-02
Note: The site was flowing, but the head could not be measured without additional equipment.
1979-04-11
Note: The site was flowing, but the head could not be measured without additional equipment.

8
West
1/4 - 1/2 Mile
Higher

Site ID:	41-0418
Groundwater Flow:	Not Reported
Shallow Water Depth:	8.52
Deep Water Depth:	9.00
Average Water Depth:	Not Reported
Date:	12/15/1988

AQUIFLOW **66644**

9
NNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000183434**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372913122114201		
Monloc name:	005S003W21G001M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4868821
Longitude:	-122.1960762	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.00
Vert measure units:	feet	Vertacc measure val:	001
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19620201	Welldepth:	367
Welldepth units:	ft	Wellholedepth:	380
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-10-07					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1974-05-02	3.60				

10
NW
1/4 - 1/2 Mile
Lower

Site ID:	41-0691
Groundwater Flow:	NE
Shallow Water Depth:	6.4
Deep Water Depth:	7.6
Average Water Depth:	Not Reported
Date:	02/19/1985

AQUIFLOW **65570**

D11
NNW
1/4 - 1/2 Mile
Lower

Site ID:	41-0719
Groundwater Flow:	NW
Shallow Water Depth:	6.71
Deep Water Depth:	7.42
Average Water Depth:	Not Reported
Date:	02/13/1991

AQUIFLOW **65526**

D12
NNW
1/4 - 1/2 Mile
Lower

Site ID:	330063
Groundwater Flow:	NW
Shallow Water Depth:	6.71
Deep Water Depth:	7.42
Average Water Depth:	Not Reported
Date:	02/13/1991

AQUIFLOW **65525**

13
West
1/4 - 1/2 Mile
Higher

Site ID:	41-0192
Groundwater Flow:	N
Shallow Water Depth:	9.2
Deep Water Depth:	9.7
Average Water Depth:	9.5a
Date:	09/19/1994

AQUIFLOW **65588**

14
NE
1/4 - 1/2 Mile
Lower

Site ID:	440031
Groundwater Flow:	Not Reported
Shallow Water Depth:	4.5
Deep Water Depth:	5.0
Average Water Depth:	Not Reported
Date:	11/26/1990

AQUIFLOW **64422**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
E15 **SSE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330155 Not Reported Not Reported Not Reported 8’ 04/07/1998	**AQUIFLOW**	**67036**
E16 **SSE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-1091 Not Reported Not Reported Not Reported 8’ 04/07/1998	**AQUIFLOW**	**67037**
F17 **NW** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330147 W 3.0 7.6 Not Reported 04/07/1997	**AQUIFLOW**	**65976**
F18 **NW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-1009 W 3.0 7.6 Not Reported 04/07/1997	**AQUIFLOW**	**65975**
G19 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440018 NE 7.79 11.89 Not Reported 09/07/1994	**AQUIFLOW**	**64481**
G20 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440034 NE Not Reported Not Reported 17.39 09/10/1991	**AQUIFLOW**	**64355**
G21 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0195 N 11.85 13’ Not Reported 07/25/1996	**AQUIFLOW**	**67110**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
22 **SE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440048 N 10.41 10.69 Not Reported 01/26/1999	**AQUIFLOW**	**51130**
23 **ENE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0158 Not Reported Not Reported Not Reported 6a 06/08/1992	**AQUIFLOW**	**67035**
H24 **SE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440002 NNE 11.77 13.28 Not Reported 07/03/1996	**AQUIFLOW**	**64368**
I25 **WNW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330100 N 10 11 Not Reported 10/13/1992	**AQUIFLOW**	**65535**
I26 **WNW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330100 N 10 11 Not Reported 10/13/1992	**AQUIFLOW**	**65538**
27 **West** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0273 N 13.17 15.00 Not Reported 03/02/1992	**AQUIFLOW**	**66705**
28 **ESE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440039 Not Reported Not Reported Not Reported 12 07/13/1992	**AQUIFLOW**	**64392**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
H29 **SSE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0223 Not Reported Not Reported Not Reported 19 11/07/1988	**AQUIFLOW**	**64375**
H30 **SSE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440025 Not Reported Not Reported Not Reported 19 11/07/1988	**AQUIFLOW**	**64376**

31
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000183400**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372835122110001		
Monloc name:	005S003W22N001M		
Monloc type:	Well		
Monloc desc:	ATHERTON GW STUDY SITE		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4763269
Longitude:	-122.1844093	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	23
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 46

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-12-14	15.24		1995-11-16	15.21	
1995-10-19	15.14		1995-09-14	15.10	
1995-08-31	15.10		1995-08-17	15.05	
1995-08-03	15.06				
1995-07-20	15.10				
Note: The site had been pumped recently.					
1995-07-06	15.13		1995-06-22	15.20	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-06-08	15.30		1995-05-11	15.51	
1995-04-27	15.67		1995-04-13	15.87	
1995-03-30	16.06		1995-03-16	16.29	
1995-03-07	16.35		1995-03-02	16.36	
1995-02-16	16.45		1995-02-02	16.62	
1995-01-19	16.75		1994-12-15	16.82	
1994-11-22	16.86		1994-11-11	16.76	
1994-10-20	16.65		1994-10-06	16.56	
1994-09-22	16.50		1994-08-18	16.20	
1994-08-04	16.12		1994-07-21	16.07	
1994-07-07	16.07		1994-06-23	15.97	
1994-06-09	15.96		1994-05-26	15.98	
1994-05-11	16.07		1994-04-28	16.09	
1994-04-13	16.14		1994-03-31	16.23	
1994-03-16	16.27		1994-03-03	16.39	
1994-02-17	16.46		1994-02-02	16.53	
1994-01-20	16.55		1993-10-19	16.55	
1993-08-11	16.35		1993-04-05	17.18	

32
NW
1/2 - 1 Mile
Lower

AQUIFLOW **65515**

Site ID:	41-0008
Groundwater Flow:	N
Shallow Water Depth:	Not Reported
Deep Water Depth:	Not Reported
Average Water Depth:	13.5a
Date:	03/13/1991

33
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000183382**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372817122113901		
Monloc name:	005S003W28G001M		
Monloc type:	Well		
Monloc desc:	ATHERTON GW STUDY SITE		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4713269
Longitude:	-122.1952429	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	31.5
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

Aquifer type: Not Reported
Construction date: 19770507 Welldepth: 75
Welldepth units: ft Wellholedepth: 75
Wellholedepth units: ft

Ground-water levels, Number of Measurements: 17

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-09-14	19.79		1995-06-22	18.70	
1995-03-30	18.80		1994-12-15	22.64	
1994-11-11	22.93		1994-10-06	22.76	
1994-09-08	22.45		1994-08-04	21.98	
1994-07-07	21.54		1994-06-09	21.17	
1994-05-12	20.96		1994-04-14	20.96	
1994-03-16	21.11		1994-01-20	22.05	
1993-10-19	22.18		1993-08-11	21.50	
1993-07-07	20.99				

I34
West
1/2 - 1 Mile
Higher

Site ID: 330062
Groundwater Flow: NNE
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 10a
Date: 06/1991

AQUIFLOW **67097**

J35
West
1/2 - 1 Mile
Higher

Site ID: 41-0313
Groundwater Flow: WNW
Shallow Water Depth: 10.81
Deep Water Depth: 13.82
Average Water Depth: Not Reported
Date: 03/08/1990

AQUIFLOW **66011**

J36
West
1/2 - 1 Mile
Higher

Site ID: 41-0070
Groundwater Flow: Not Reported
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 8
Date: 03/17/1987

AQUIFLOW **65764**

37
East
1/2 - 1 Mile
Higher

Site ID: 440047
Groundwater Flow: Not Reported
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 9
Date: 03/04/1996

AQUIFLOW **64378**

38
ENE
1/2 - 1 Mile
Lower

Site ID: 41-0110
Groundwater Flow: NNW
Shallow Water Depth: 5.0
Deep Water Depth: 7.0
Average Water Depth: Not Reported
Date: 03/31/1995

AQUIFLOW **64401**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
K39 **West** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0798 Not Reported 12 17 Not Reported 07/05/1994	**AQUIFLOW**	**65760**
40 **SW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0229 NNW Not Reported Not Reported 25 04/04/1996	**AQUIFLOW**	**66647**
K41 **West** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330025 NE 11’ 15’ Not Reported 07/09/1992	**AQUIFLOW**	**66712**
K42 **West** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0275 NE 11’ 15’ Not Reported 07/09/1992	**AQUIFLOW**	**66713**
43 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0343 SW 6.93 7.75 Not Reported 05/03/1995	**AQUIFLOW**	**65725**
44 **East** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	440032 NE 6.45 8.95 Not Reported 09/05/1995	**AQUIFLOW**	**64384**
L45 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330031 Not Reported Not Reported Not Reported 8a 03/1989	**AQUIFLOW**	**65658**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
L46 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0284 Not Reported Not Reported Not Reported 8a 03/1989	**AQUIFLOW**	**65659**
L47 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0317 Not Reported 7.56 12.5 Not Reported 07/13/1987	**AQUIFLOW**	**67104**
M48 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	330154 N Not Reported Not Reported 4 11/17/1997	**AQUIFLOW**	**65505**
M49 **WNW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0072 Not Reported Not Reported Not Reported 9.5 09/17/1991	**AQUIFLOW**	**65503**
50 **WSW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	41-0071 NE 14 15 Not Reported 06/18/1980	**AQUIFLOW**	**65770**
51 **SSE** **1/2 - 1 Mile** **Higher**			**FED USGS**	**USGS40000183354**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-372803122111501		
Monloc name:	005S003W28J003M		
Monloc type:	Well		
Monloc desc:	ATHERTON GW STUDY SITE		
Huc code:	18050004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.4674382
Longitude:	-122.188576	Sourcemap scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	37
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19880915	Welldepth:	150
Welldepth units:	ft	Wellholedepth:	150
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 29

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-09-14	22.55		1995-07-19	21.17	
1995-06-22	20.13		1995-05-24	19.82	
1995-03-30	19.74		1994-12-15	24.70	
1994-11-11	26.67		1994-10-20	27.61	
1994-10-06	27.21		1994-09-22	27.38	
1994-09-08	26.62		1994-08-18	25.99	
1994-08-04	25.81		1994-07-21	25.30	
1994-07-07	25.07		1994-06-23	24.14	
1994-06-09	23.11		1994-05-26	22.69	
1994-05-12	22.06		1994-04-28	22.18	
1994-04-14	22.24		1994-03-31	22.06	
1994-03-17	22.16		1994-03-03	21.86	
1994-02-17	22.04		1994-02-02	22.44	
1994-01-20	22.81		1993-10-19	24.29	
1993-10-07	25.07				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
94063	19	2

Federal EPA Radon Zone for SAN MATEO 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: 94063

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.300 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 & Game
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.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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 B

Historical Aerial Photographs and Other Documents

DRAFT

Taft Community School
903 Tenth Avenue
Redwood City, CA 94063

Inquiry Number: 4955887.6
June 05, 2017

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/05/17

Site Name:

Taft Community School
903 Tenth Avenue
Redwood City, CA 94063
EDR Inquiry # 4955887.6

Client Name:

McCloskey Consultants Inc
420 Sycamore Valley Road West
Danville, CA 94526
Contact: Tom Mccloskey

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
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 24, 1963	USGS
1958	1"=500'	Flight Date: July 21, 1958	USGS
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

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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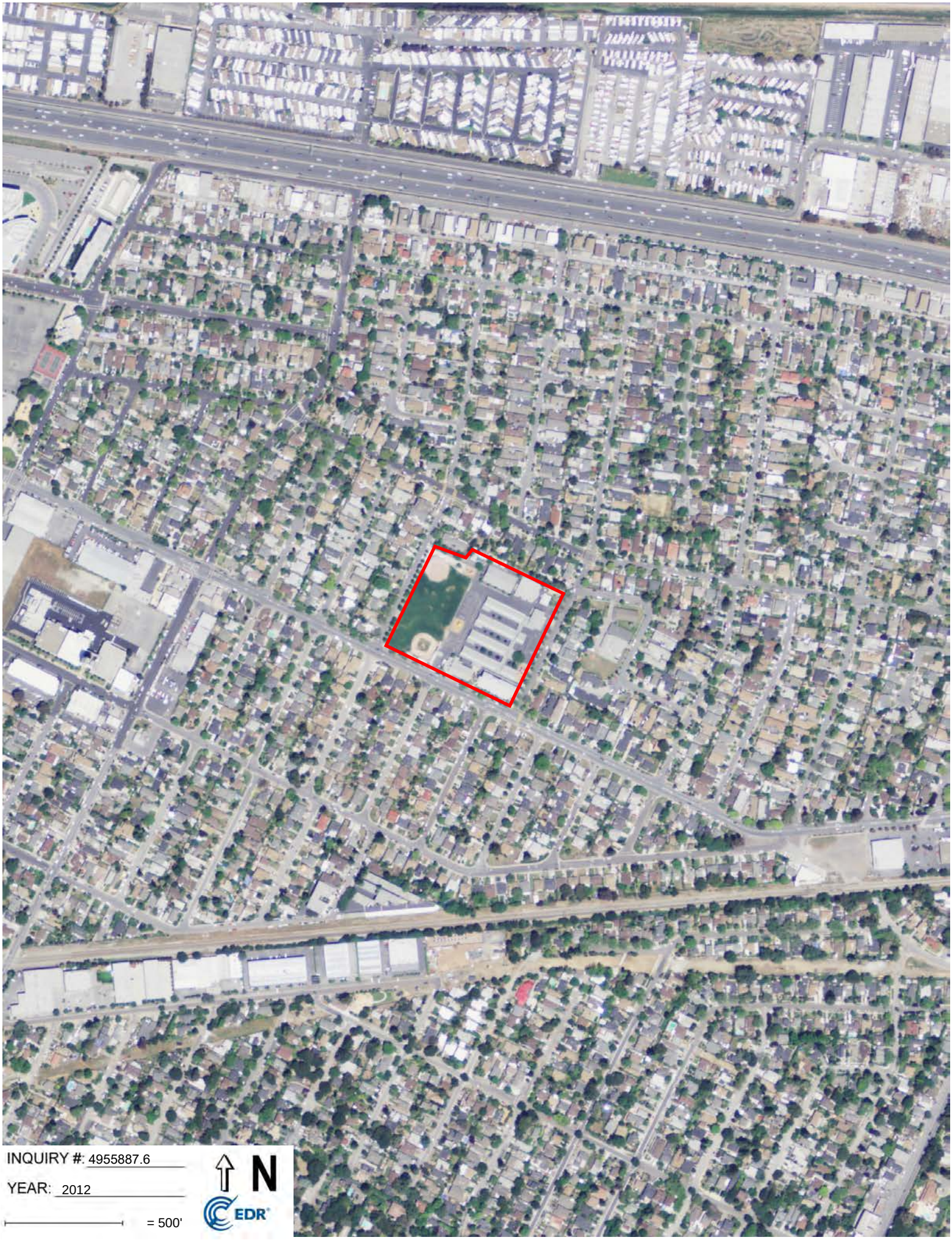
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YEAR: 2012
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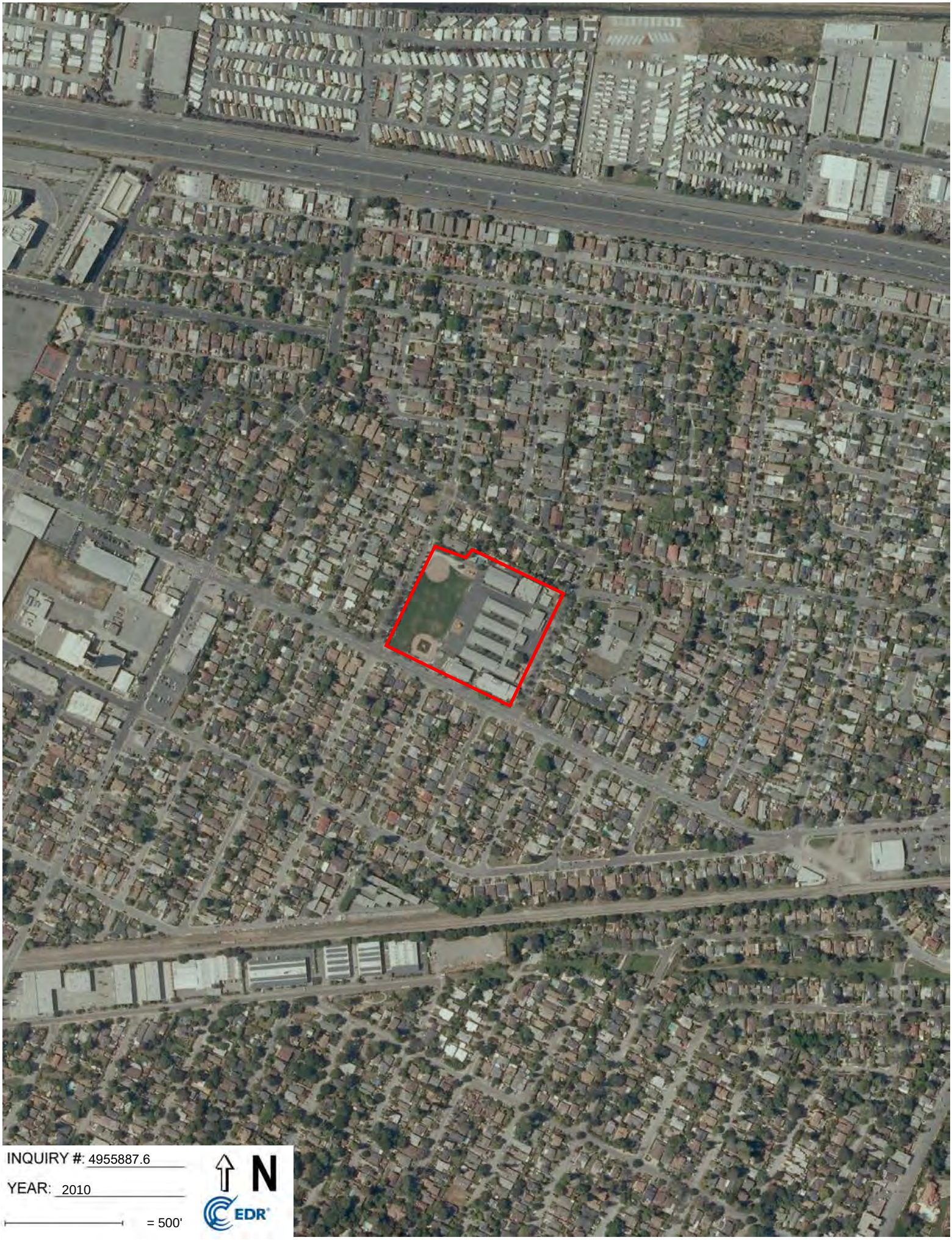
N
EDR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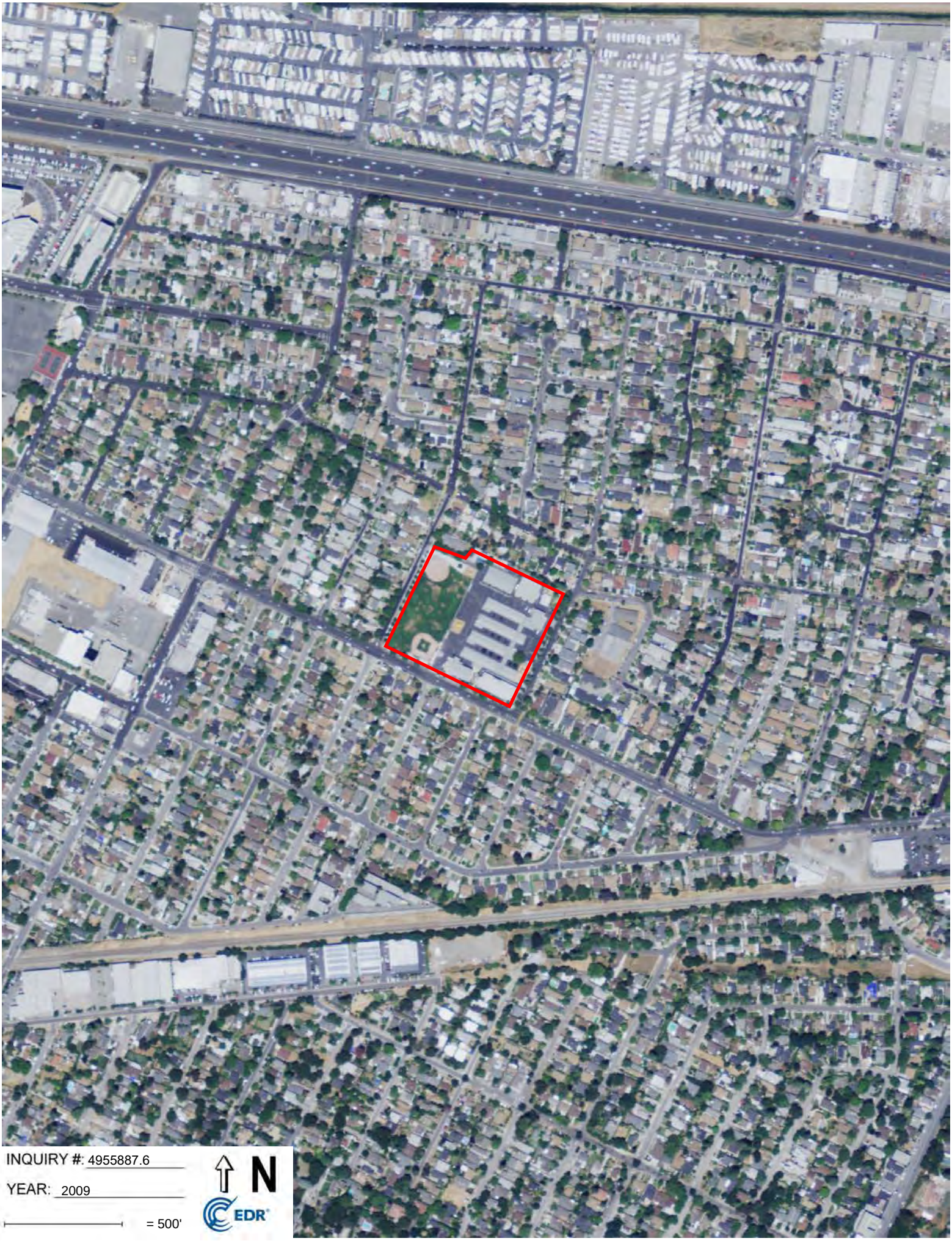
EDR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EDR

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N
EDR

INQUIRY #: 4955887.6
YEAR: 1998
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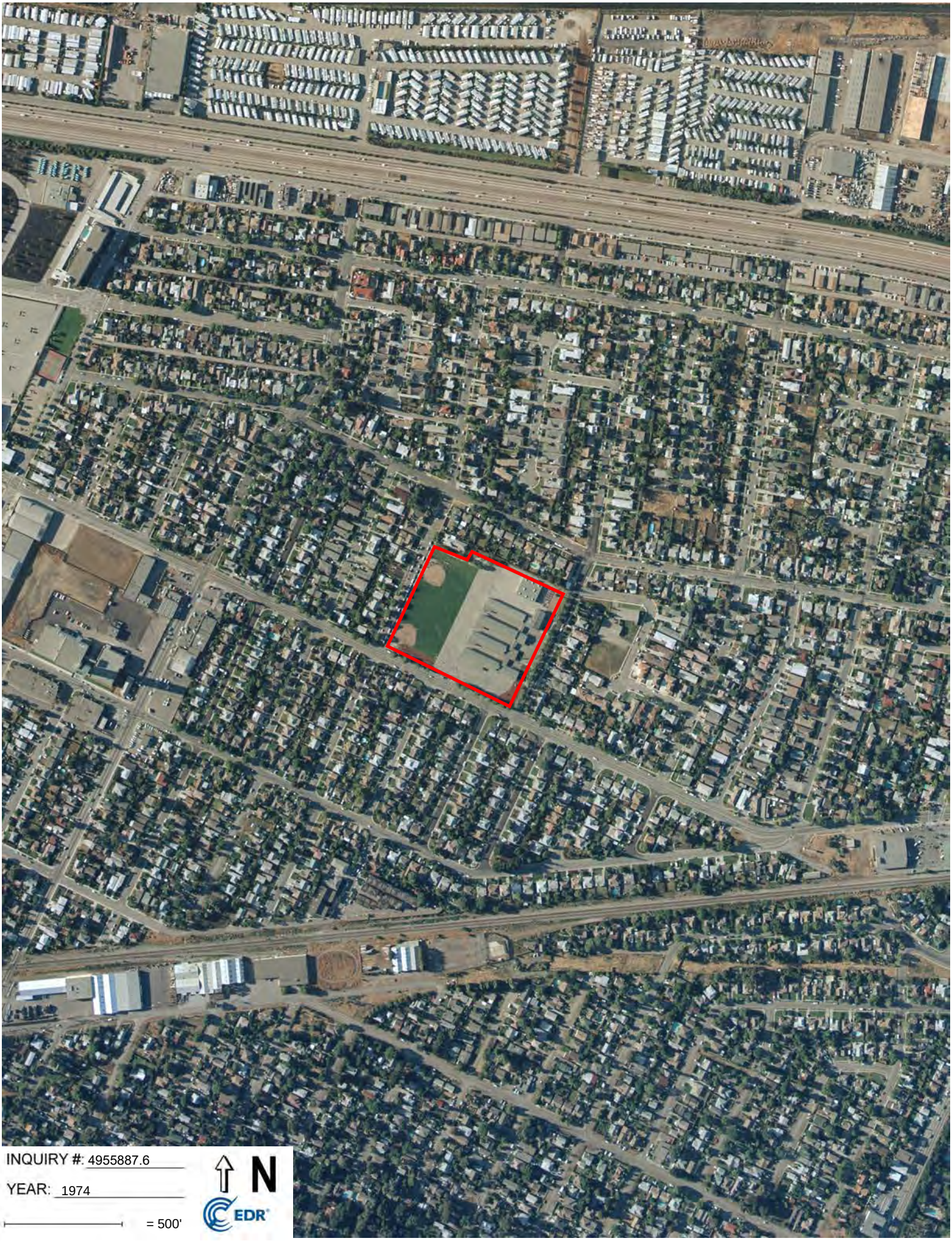
N
EDR

INQUIRY #: 4955887.6
YEAR: 1991
= 500'
N
EDR

INQUIRY #: 4955887.6
YEAR: 1982
= 500'
N
EDR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YEAR: 1974
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EDR

INQUIRY #: 4955887.6
YEAR: 1968
= 500'
N
EDR

INQUIRY #: 4955887.6
YEAR: 1963
= 500'
N
EDR

INQUIRY #: 4955887.6
YEAR: 1958
= 500'
N
EDR

INQUIRY #: 4955887.6
YEAR: 1950
= 500'
N
EDR

INQUIRY #: 4955887.6
YEAR: 1948
= 500'
N
EDR

INQUIRY #: 4955887.6
YEAR: 1943
= 500'
N
EDR

Appendix C

Field Work Notice Example

DRAFT

August ##, 2014

TO: Community Members and Neighbors near the Southwestern Corner of W. Ferguson Avenue and N. Giddings Street

FROM: Visalia Unified School District
5000 W. Cypress Avenue, Visalia, California 93277

RE: Environmental Investigation for New School Construction Project

We would like to provide you with advance notice of an environmental investigation that will be conducted at the proposed new school construction site located on the southwestern corner of W. Ferguson Avenue and N. Giddings Street in Visalia, Tulare County, California (map attached). This investigation is related to the requirements of the California Department of Education (CDE) regarding proposed school sites.

The investigation will be performed by a licensed contractor under the oversight of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC). Although an assessment will be conducted, this does not mean hazardous substances are located on this property. State laws require that all proposed school sites undergo a complete environmental review, and if necessary, a cleanup to protect students, faculty and staff who will occupy the school.

Field work is scheduled to begin on August ##, 2014 and end on August ##, 2014. All field work will be conducted during normal business hours. Street closures will not be required during the investigation.

The Visalia Unified School District (VUSD) will submit the results of this Preliminary Environmental Assessment (PEA) as a draft to DTSC for review and approval of a final draft. The PEA will include an assessment of whether hazardous materials are present and, if so, whether the materials are present in concentrations that would require some type of cleanup before implementing the project. If the VUSD elects to proceed with construction of the school, the VUSD will hold a 30-day public review and comment period on the draft PEA. Additionally, the VUSD will conduct a public hearing to discuss the investigation results and receive comments from the public. All comments received during this process shall be forwarded to DTSC for consideration.

The draft PEA will be made available for review at the VUSD main office and at the Tulare County Library (200 West Oak Avenue, Visalia, CA). Notice of the start of the 30-day review period, date of public hearing, and location of repositories will be published in a local paper of general circulation. When the public participation process is complete, DTSC will issue a final determination with regard to the PEA.

If you have any questions concerning the upcoming investigation or other activities of the proposed construction project, please contact Ms. Robert Gröeber, School Superintendent of the Visalia Unified School District at (559) 730-7529 or rgroeber@visalia.k12.ca.us.

Appendix D

Health and Safety Plan

DRAFT

Project Name: Taft Community School **Project Number:** _____ **Date:** 2/9/18

Anyone who enters a hazardous waste site must recognize and understand the potential hazards to health and safety associated with the cleanup/investigation of that site. Personnel actively involved in the field project must he thoroughly familiar with program and procedures contained in this SSP. This SSP must be available on-site when performing fieldwork. Periodic inspections may be made to evaluate if proper safety measures are being followed. In addition, a copy of the SSP must be kept in the job file.

Site Description

Client Contact: John Baker, Superintendent
Telephone Number/Email: (650) 482-2230 jbaker@rcsdk8.net

Site Location: Taft Community School
903 10th Avenue
Redwood City, California 94062

Site Type (Check if Applicable): ☐ Residential ☐ Commercial ☐ Industrial ☐ Undeveloped ☑ Other School

Notable Features: The Site is an active school.

Site Background: The Site consists of an eastern portion of the larger school parcel. Near surface and deeper samples will be collected and analyzed in accordance with the scope of work described in the PEA Workplan.

Organizational Structure

Project Manager: Tom McCloskey Site Safety Officer: Chris Vertin

Field Personnel: Chris Vertin

Regulatory Agency Contact: Mellan Songco (DTSC) Phone Number: (916) 255-3590

All of the above personnel have had 40-hour OSHA training and the Project Leader has had 8-hour supervisory training.

Work Plan* (check if applicable)

Objective of the proposed work: Environmental Sampling for PEA Sampling

The following would be performed during this project:

- ☐ Excavation / Trenching
- ☐ Drilling / Soil Boring
- ☐ Monitoring Well Installation
- ☐ Well Gauging
- ☐ Well Development
- ☐ Groundwater Sampling
- ☑ Soil Sampling
- ☐ Soil Vapor Sampling
- ☐ Remediation System Installation
- ☐ Other(s) _____

Chemical Hazards (check if applicable)

Chemical hazards possibly to be on-site in soils and/or groundwater are as follows:

		Symptoms of Over-Exposure
☐	**Gasoline -**	Skin irritant, disturbance of eyes. Deep burning in the throat and respiratory tract and bronchopneumonia. Repeated or chronic dermal contact may result in drying of the skin, lesions, and other dermalogic conditions.
☐	**Diesel -**	Irritation to *skin.* Prolonged breathing at high vapor concentrations can effect central nervous system.
☐	**Benzene -**	Irritation of the eyes, nose, and respiratory system. Headache, giddiness, fatigue, anorexia, staggered gait, and dermatitis.
☐	**Ethylbenzene -**	Irritation of eyes and mucous membranes, headache, dermatitis, narcosis, and coma.
☐	**Toluene -**	Irritation of eyes and mucous membranes, headache, dermatitis, narcosis, and coma.
☐	**Xylenes -**	Dizziness, excitement, drowsiness, staggering gait, irritation of eyes, nose, and throat, nausea, vomiting, and dermatitis.
☑	**Arsenic -**	Irritation of the skin, possible dermatitis, respiratory distress, diarrhea, kidney damage, muscular tremors, seizure; possible gastrointestinal tract and reproductive effects, and possible liver damage.
☑	**Lead -**	Weakness, insomnia, constipation, abdominal pain, colic, anemia, paralysis of the wrists and ankles, encephalopathy, kidney disease, irritation of the eyes, and hypotension.
☑	**Asbestos - NOA**	Difficulty breathing, interstitial fibrosis, restricted pulmonary effects, finger clubbing, and irritation of the eyes.
☑	**OCPs and Chlordane -**	Blurred vision, conjunctivitis, ataxia, delirium, coughing, abdominal pains, nausea, vomiting, diarrhea, irritability, and convolutions.
☐	**Dieldrin -**	Headache, dizziness, nausea, vomiting, sweating, myoclonic limb jerks, clonic and tonic convulsions, and coma.
☑	**Total DDT -**	Irritation of the eyes and skin, paresthesia of the tongue, lips, and face, dizziness, confusion, headache, fatigue, convulsions, and paresis of the hands
☐	**DCA -**	Headaches, loss of appetite, nausea, vomiting, intense jaw pain, and cranial nerve palsy.
☐	**DCE -**	Irritation of eyes and respiratory system, and depression of the central nervous system.
☐	**TCA -**	Irritation of the eyes, skin, nose, throat, and respiratory system, coughing, dyspnea, delayed pulmonary edema, eye and skin burns, dermatitis, salivation, vomiting, and diarrhea.
☐	**TCE -**	Irritation of the eyes and skin, headaches, vertigo, giddiness, sleepiness, nausea, vomiting, dermatitis, cardiac arrhythmia, paresthesia, and liver injury.

☐	**H_2S**	Irritation of the eyes and respiratory system, apnea, coma, convolutions, conjunctivitis, eye pain, lacrimation, photophobia, corneal vesiculation, dizziness, headaches, fatigue, irritability, insomnia, and gastrointestinal disturbance.
☑	**PCBs**	The most commonly observed health effects in people exposed to extremely high levels of PCBs are skin conditions, such as chloracne and rashes. Common symptoms included dermal and ocular lesions, irregular menstrual cycles and lowered immune responses. Other symptoms included fatigue, headaches, coughs, and unusual skin sores.
☐	**Dioxins**	Short-term exposure of humans to high levels of dioxins may result in skin lesions, such as chloracne and patchy darkening of the skin, and altered liver function. Long-term exposure is linked to impairment of the immune system, the developing nervous system, the endocrine system and reproductive functions.
☐	**PAHs**	Eye irritation, nausea, vomiting, diarrhea and confusion. Other symptoms to the skin include irritation and inflammation.
☑	**Radon**	Severe symptoms of long-term exposure to elevated levels may include persistent cough, coughing up blood, wheezing, shortness of breath, hoarseness, chest pain (especially when you laugh), frequent infections such as bronchitis and pneumonia.

Exposure to chemicals should be avoided through proper personal hygiene practices. Although some chemicals can exhibit identifiable acute health effects these exposures are unlikely. Unless the chemical exposure is excessive, it is unlikely that the exposure will be identifiable or exhibit the above symptoms of over-exposure. If you think you have been exposed to a chemical notify your supervisor immediately.

If any of the above symptoms occur, please leave the site for a safe location immediately. First aid should also he given immediately and the Project Manager and Site Safety Officer should be contacted. If needed, emergency procedures should he followed.

Non-Chemical Hazards (check if applicable)

Non-chemical hazards known or suspected to be on-site are as follows:

☑	**Heavy Equipment**	Heavy equipment should he in good working order and operated by an experienced and licensed person in accordance with recognized industry standards. Keep safe distance from heavy machinery so that you would not be in the path of a moving part if it were to swing suddenly. Always be aware of the movements of machinery around you. Approach vehicles from the driver's side. Make sure the vehicle operator sees you. Make eye contact. Personnel working in the vicinity of construction equipment shall wear orange safety vests for increased visibility, hard hat, and steel-toed boots at a minimum. Vehicles should be equipped with a flag, beacon and/or hazard flashers should be activated per the IIPP when working around heavy equipment.
☑	**Slip/Fall Hazards -**	Wet surfaces, inclines, or other obstacles that make movement on-site difficult; good housekeeping shall be practiced and shoes with traction shall be worn.
☑	**Noise -**	Excessive noise can make communication difficult or impossible; workers will be required to wear earplugs for all operations involving the use of power or pneumatic equipment that generates loud noise levels.
☑	**Heat/Cold Stress -**	Physical work in warm weather and/or the use of personal protective equipment

may induce heat issues symptoms including cramps, discomfort, and drowsiness, resulting in impaired function; can lead to heat stroke and death. Cool drinking water or other electrolyte replacing liquids shall be available on-site at all times. Work breaks shall be given as necessary, based on temperature and monitoring of workers.

☑ **Vehicular Traffic -** If the work area is in or near traffic areas where vehicular dangers are present, on-sire workers shall wear orange safety vests or other suitable garments marked with or made of reflectorized or high-visibility material. The work area should he clearly marked using signs, barricades, temporary fencing, safety cones, and/or caution tape. Flaggers are to be used to direct traffic if needed.

☐ **Excavation -** Excavation areas present a danger of falling and cave-in. For excavations of less than 5 feet in depth, follow general excavation safety protocols. Never leave open excavations unmarked. If possible, avoid entering any excavation. If entry is necessary and the excavation is greater than 5 feet in depth (even if it is shored), an OSHA excavation permit must he obtained and a separate excavation safety plan shall be prepared

☑ **Underground Utilities -** Subsurface utilities are within the work area and may be encountered during drilling or any subsurface exploration. Utility companies or owners must he contacted and asked to determine the location of the underground utility before excavation. While the excavation is open, underground installations must be protected, supported, or removed to protect employees. When utility companies cannot respond to a request to locate underground utility installations, or cannot establish the exact location of the installations, work may proceed with caution, only upon approval by the Project Manager and Site Safety Officer. Use of detection equipment or other methods of locating utility installations may be additionally required. In an area with suspected underground utilities, all boring locations must he hand probed to a minimum depth of 5 feet.

Please indicate the following were performed prior to work:

☐ **Underground Service Alert (USA)**

☐ **Private Utility Locator**

Please indicate any concerns discussed with wither USA or the private utility locator:

☐ No Concerns Identified

☐ Concerns (Please Describe Below)

_____

_____

_____

☐ **Overhead Lines -** Power and electrical lines are present within the work area. Extreme caution should be used when overhead electrical power or other lines are present. Use of equipment directly under or near lines should be avoided. If possible, the utility company or owner should be contacted to temporary turn off line power or reroute line the path during the course of work in that location.

☐ **Lifting Hazards -** Proper lifting technique should be used by bending at the knees and using the legs for strength. Item being lifted should be held close to the body and back-twisting motions should be avoided.

☐ **55-Gallon Drums & Containers -** Caution should be used when handling drums and other heavy containers. During movement, the integrity of the drums may be compromised. Drums or

containers on-site may be cracked, dented, or altered such that lids are not securely attached. If needed, contents should be secured in another drum, or drums should be placed in drum packers for further protection. Always use the proper equipment, designed for the specific application, when handling and moving heavy objects.

☐ **High Crime Area -** Any area in which one feels threatened or is known to be a high crime area. Always be aware of your surroundings and never leave equipment unattended.

☐ **Hot Surface -** Surfaces on-site will be at extreme temperature conditions (i.e. asphalt). Caution should be used around hot surfaces on-site, and steel-toed hoots should not be worn when hot surfaces are present. All hot surface hazards should be marked and taped-off to guard against accidental entry.

☐ **Low Lighting Conditions -** Time or location may introduce inadequately lit work areas. On-site work should be concluded before dark. If work is anticipated to continue after dark, a light tower should be used in appropriate areas, as directed by the Project Manager and Site Safety Officer.

☑ **Poisonous / Dangerous Animals & Insects** Including but not limited to snakes, wasps, dogs, cattle, etc. Use caution on-site when dangerous animals and insects are suspected to be present. Avoid contact when possible and if the situation becomes threatening, leave the site immediately. If allergic to insect stings, always carry an anaphylactic shock kit.

☐ **Confined Space -** Any space that limits or constricts entry or exit; is not designed for continuous employee occupancy; has unfavorable natural ventilation. Examples of possible confined spaces include tanks, vessels, excavations, silos, storage bins, etc. For all work in confined spaces, a separate confined space entry program and permit must be established.

☐ **Other -(Specify) _____**

Emergency Notification

Local Police, 911 or if NA: (650) 780-7100 – Redwood City Police Department, Non-Emergency Calls

State Police, 911 or if NA:

Fire, 911 or if NA : (650) 780-7400 – Redwood City Fire Department

Ambulance, 911 or if NA:

Medical (Attach Map--Mandatory)

Nearest Hospital: Kaiser Permanente Redwood City Medical Center,1100 Veterans Blvd., Redwood City, CA 94062

Hospital Telephone Number: (650) 299-2000

Directions: **See Attached Map** **Figure A-1**

Local Regulatory Agencies

Central Valley Regional Water Quality Control Board (559) 445-5116	Department of Toxic Substances Control (800) 728-9642	San Mateo County Environmental Health Division (650) 372-6200
		Other:

Communications

☐ Two-Ways Radios ☑ Cellular Phone ☑ Verbal

Personal Protective Equipment (PPE)

Appropriate on-site personnel have had the 40-hour OSHA class in Hazardous Waste Operations / Emergency Response.

Level of Protective Equipment ☐ A ☐ B ☐ C ☑ D ☑ See PPE Below

The following PPE is required to be available on-site and is to be used on an as needed basis:

☐ Hard Hat	☑ Safety Eye Wear (Type) _____
☑ Safety Boots	☐ Respirator (Type) _____
☑ Orange Vest	Filter (Type) _____
☑ Hearing Protection	☑ Gloves (Type) Nitrile
☐ Tyvex Coverall	☐ Other _____

Monitoring Equipment On-Site

The following monitoring equipment is to be available on-site and is to be used on an as needed basis:

☐ Organic Vapor Meter	☐ Draeger Tube _____
☐ Oxygen Meter	☐ Passive Dosimeter
☐ Combustible Gas Meter	☐ Air Sampling Pump
☐ H_2S Meter	☐ Filter Media _____

All field equipment shall be properly calibrated and functioning normally. If the equipment calibration date is unknown, the equipment should be taken out of service until calibrated to manufacturers specifications.

Site Control Procedures

All unauthorized persons shall be kept a safe distance form the work area. The work area shall be denoted with fencing, barricades, cones, and/or barrier tape.

Decontamination

Standard procedures, unless notified otherwise by the Project Manager and/or Site Safety Officer.

Personnel: Wash with soap and water.

Equipment: All sampling equipment is to be cleaned with a steam cleaner or a liquinox solution and distilled water prior to use at each sampling location.

Standard Safe Work Practices

1. Eating, drinking, chewing gum or tobacco, and smoking are prohibited in the contaminated or potentially contaminated area where the possibility for the transfer of contaminants exists.

2. Avoid contact with potentially contaminated substances. Do not walk through puddles, pools, mud, etc. Avoid, whenever possible, kneeling on the ground and leaning or sitting on equipment or the ground. Do not place monitoring equipment on potential contaminated surfaces (i.e., ground, etc.).

3. All field crew members should make use of their senses to alert them to potentially dangerous situations in which they should not become involved (i.e., the presence of strong, irritating, or nauseating odors).

4. Prevent spillage to the extent possible. In the event that a spill occurs, contain liquid if possible.

5. Prevent splashing of the contaminated materials.

6. Field crew members shall be familiar with the physical characteristics of the site, including:

- Wind direction in relation to work area contaminant location;
- Accessibility of other workers, equipment, vehicles;
- Communications;
- Exclusion zone (areas of known or suspected contamination);
- Site access;
- Nearest water source;
- The location of the nearest telephone;
- The location of the nearest medical facility.

7. The number of personnel and equipment in the contaminated area should be minimized, but only to the extent consistent with workforce requirements for safe site operations.

8. Personal Protection Equipment must be used properly to their fullest extent.

9. For more information, please review (Injury and Illness Prevention Program).

Standard Site Safety Protocol

1. If the site is located in a neighborhood known for high crime (e.g., East Palo Alto, South-Central Los Angeles, the Tenderloin in San Francisco, etc.) discuss personal protection, such as hiring of security personnel, with your Project Manager.

2. Leave the site destination, including address and time expected to return with Project Manager. If the Project Manager is not in the office, leave the information with another person who has knowledge of the project.

3. Always take a radio or cellular phone along for quick communication. Keep the radio and/or cellular phone on your person. (It will not do you any good in the truck).

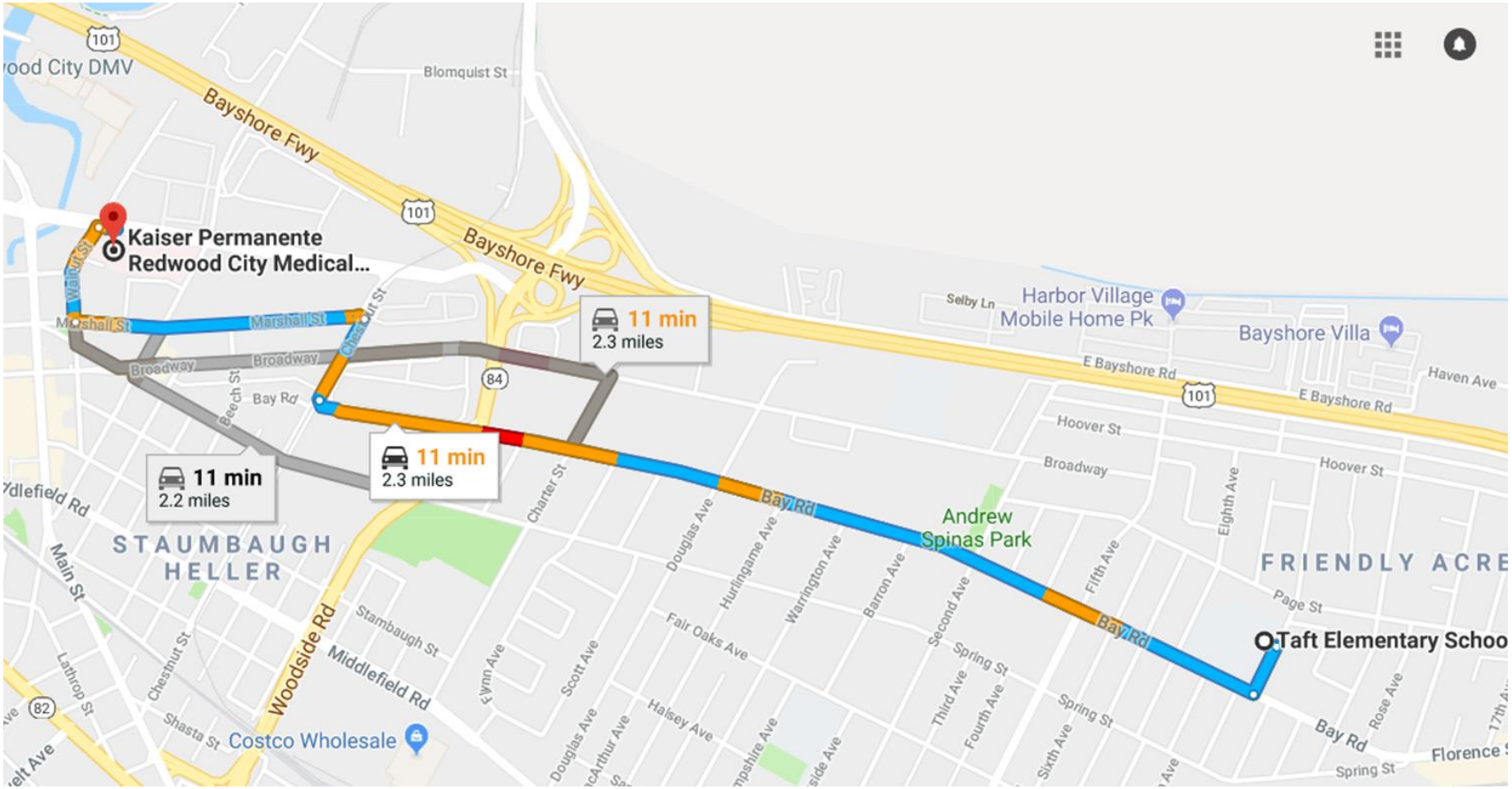
4. Be aware of your surroundings and trust your instincts. Leave if you feel threatened.

5. Do not stay on-site alone after dark unless the Project Manager is aware.

6. If the site visit will take place in or near a high crime neighborhood, fill the vehicle with gasoline prior to entering the area, take a map, drive with the doors locked, and avoid stopping in unfamiliar areas.

7. While performing the site visit, keep the key readily accessible, and the vehicle nearby. If possible, for quick access.

8. Do not carry large amounts of cash on your person and do not give any money to pan handlers as this encourages others to approach you.



Kaiser Permanente Hospital

Address: 1100 Veterans Blvd, Redwood City, CA 94063

Phone: (650) 299-2000

From the Site head Southwe**st** on **Tenth Ave** toward **Bay Rd;**

Turn **Right** onto **Bay Rd;**

Turn **Right** onto **Chestnut St;**

Turn **Left** onto **Marshall St**;

Turn **Right** onto **Walnut St;**

Turn **Right** onto **Veterans Blvd.**

Arrive at **170 Alameda de las Pulgas,** on Right Hand Side.

Estimate Distance: **2.3 Miles**

Map to Nearest Hospital

Taft Community School PEA
903 10th Avenue
Redwood City, CA 94063

FIGURE D-1

McCloskey Consultants

Appendix E

Laboratory State Certification

DRAFT

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board

March 2, 2017

Mukesh Jani
Torrent Laboratory, Inc.
483 Sinclair Frontage Road
Milpitas, CA 95035

Dear Mukesh Jani: Certificate No. 1991

This notice advises that the laboratory named above has been certified as an environmental testing laboratory pursuant to the provisions of the Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, *et seq.*

The Fields of Testing for which this laboratory has been certified are indicated on the enclosed "Fields of Testing" list. The certificate shall remain in effect until **April 30, 2018** unless it is revoked. This certificate is subject to an annual fee as determined by HSC 100860.1(a).

The application for renewal of this certificate must be received 90 days prior to the expiration date to remain in force according to HSC 100845(a). You must submit annual Proficiency Testing results before the due date of your annual fee to remain in compliance.

Any change in laboratory location or alteration to laboratory structure that could adversely affect quality of analysis in certified methods require notification prior to the change. Notification is also required for a transfer in ownership or appointment of new laboratory director within 30 days of the change (HSC, Section 100845(b) and (d)).

Your continued cooperation with the above requirements is essential for maintaining the high quality of the data produced by environmental laboratories certified by the State of California.

For general inquiries, please contact our office at the phone number or email address listed below. For specific concerns regarding your application, please call (916) 341-5175 or email Christine.Sotelo@waterboards.ca.gov.

Sincerely,

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

Enclosure

CALIFORNIA Water Boards
STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing

Torrent Laboratory, Inc.

Certificate No. 1991
Expiration Date 4/30/2018

Phone: (408) 263-5258

Field of Testing: 101 - Microbiology of Drinking Water

101.050	001	Total Coliform P/A	SM9223B (Colilert)
101.060	002	Total Coliform P/A	SM9223B
101.060	003	E. coli P/A	SM9223B
101.140	001	Enterococci	SM9230B
101.150	001	Enterococci	SM9230C
101.300	001	E. coli P/A	SM9223B (Colilert)
101.310	001	Enterococci	Enterolert
245.1	001	Heterotrophic Bacteria	SM9215B

Field of Testing: 102 - Inorganic Chemistry of Drinking Water

102.015	001	Hydrogen Ion (pH)	EPA 150.1
102.020	001	Turbidity	EPA 180.1
102.030	001	Bromide	EPA 300.0
102.030	002	Chlorate	EPA 300.0
102.030	003	Chloride	EPA 300.0
102.030	005	Fluoride	EPA 300.0
102.030	006	Nitrate	EPA 300.0
102.030	007	Nitrite	EPA 300.0
102.030	008	Phosphate, Ortho	EPA 300.0
102.030	010	Sulfate	EPA 300.0
102.045	001	Perchlorate	EPA 314.0
102.047	001	Perchlorate	EPA 331.0
102.095	001	Turbidity	SM2130B-2001
102.100	001	Alkalinity	SM2320B-1997
102.120	001	Hardness (calculation)	SM2340B-1997
102.130	001	Conductivity	SM2510B-1997
102.140	001	Residue, Filterable TDS	SM2540C-1997
102.175	001	Chlorine, Free	SM4500-Cl G-2000
102.175	002	Chlorine, Total Residual	SM4500-Cl G-2000
102.190	001	Cyanide, Total	SM4500-CN E
102.203	001	Hydrogen Ion (pH)	SM4500-H+ B-2000
102.260	001	Total Organic Carbon TOC	SM5310B-2000
102.261	001	Dissolved Organic Carbon (DOC)	SM5310B-2000
102.270	001	Surfactants	SM5540C
102.520	001	Calcium	EPA 200.7
102.520	002	Magnesium	EPA 200.7
102.520	003	Potassium	EPA 200.7
102.520	004	Silica	EPA 200.7
102.520	005	Sodium	EPA 200.7

As of 3/2/2017 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

#Name?

102.520	006	Hardness (calculation)	EPA 200.7

Field of Testing: 103 - Toxic Chemical Elements of Drinking Water

103.130	001	Aluminum	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7
103.130	018	Boron	EPA 200.7
103.140	002	Antimony	EPA 200.8
103.140	003	Arsenic	EPA 200.8
103.140	004	Barium	EPA 200.8
103.140	005	Beryllium	EPA 200.8
103.140	006	Cadmium	EPA 200.8
103.140	007	Chromium	EPA 200.8
103.140	008	Copper	EPA 200.8
103.140	009	Lead	EPA 200.8
103.140	010	Manganese	EPA 200.8
103.140	012	Nickel	EPA 200.8
103.140	013	Selenium	EPA 200.8
103.140	014	Silver	EPA 200.8
103.140	015	Thallium	EPA 200.8
103.140	016	Zinc	EPA 200.8
103.140	018	Vanadium	EPA 200.8
103.160	001	Mercury	EPA 245.1
103.310	001	Chromium (VI)	EPA 218.6

Field of Testing: 104 - Volatile Organic Chemistry of Drinking Water

104.040	000	Volatile Organic Compounds	EPA 524.2
104.040	001	Benzene	EPA 524.2
104.040	007	n-Butylbenzene	EPA 524.2
104.040	008	sec-Butylbenzene	EPA 524.2
104.040	009	tert-Butylbenzene	EPA 524.2
104.040	010	Carbon Tetrachloride	EPA 524.2
104.040	011	Chlorobenzene	EPA 524.2
104.040	015	2-Chlorotoluene	EPA 524.2
104.040	016	4-Chlorotoluene	EPA 524.2
104.040	019	1,3-Dichlorobenzene	EPA 524.2
104.040	020	1,2-Dichlorobenzene	EPA 524.2
104.040	021	1,4-Dichlorobenzene	EPA 524.2
104.040	022	Dichlorodifluoromethane	EPA 524.2
104.040	023	1,1-Dichloroethane	EPA 524.2
104.040	024	1,2-Dichloroethane	EPA 524.2

As of 3/2/2017 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

#Name?

104.040	025	1,1-Dichloroethene	EPA 524.2
104.040	026	cis-1,2-Dichloroethene	EPA 524.2
104.040	027	trans-1,2-Dichloroethene	EPA 524.2
104.040	028	Dichloromethane	EPA 524.2
104.040	029	1,2-Dichloropropane	EPA 524.2
104.040	033	cis-1,3-Dichloropropene	EPA 524.2
104.040	034	trans-1,3-Dichloropropene	EPA 524.2
104.040	035	Ethylbenzene	EPA 524.2
104.040	037	Isopropylbenzene	EPA 524.2
104.040	039	Naphthalene	EPA 524.2
104.040	041	N-propylbenzene	EPA 524.2
104.040	042	Styrene	EPA 524.2
104.040	044	1,1,2,2-Tetrachloroethane	EPA 524.2
104.040	045	Tetrachloroethene	EPA 524.2
104.040	046	Toluene	EPA 524.2
104.040	048	1,2,4-Trichlorobenzene	EPA 524.2
104.040	049	1,1,1-Trichloroethane	EPA 524.2
104.040	050	1,1,2-Trichloroethane	EPA 524.2
104.040	051	Trichloroethene	EPA 524.2
104.040	052	Trichlorofluoromethane	EPA 524.2
104.040	054	1,2,4-Trimethylbenzene	EPA 524.2
104.040	055	1,3,5-Trimethylbenzene	EPA 524.2
104.040	056	Vinyl Chloride	EPA 524.2
104.040	057	Xylenes, Total	EPA 524.2
104.045	000	Trihalomethanes, Total	EPA 524.2
104.045	001	Bromodichloromethane	EPA 524.2
104.045	002	Bromoform	EPA 524.2
104.045	003	Chloroform	EPA 524.2
104.045	004	Dibromochloromethane	EPA 524.2
104.050	000	Gasoline Additives	EPA 524.2
104.050	002	Methyl tert-butyl Ether (MTBE)	EPA 524.2
104.050	004	tert-Amyl Methyl Ether (TAME)	EPA 524.2
104.050	005	Ethyl tert-butyl Ether (ETBE)	EPA 524.2
104.050	006	Trichlorotrifluoroethane	EPA 524.2
104.050	007	tert-Butyl Alcohol (TBA)	EPA 524.2
104.050	008	Carbon Disulfide	EPA 524.2
104.050	009	Methyl Isobutyl Ketone	EPA 524.2

Field of Testing: 105 - Semi-volatile Organic Chemistry of Drinking Water

105.201	001	Haloacetic Acids (HAA5)	EPA 552.3
105.230	000	Dioxins	EPA 1613B
105.230	001	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	EPA 1613B

Field of Testing: 107 - Microbiology of Wastewater

107.010	001	Heterotrophic Bacteria	SM9215B
107.060	002	Total Coliform (Enumeration)	SM9222B-1997
107.080	002	Fecal Coliform (Enumeration)	SM9222D-1997
107.242	001	Enterococci	Enterolert

As of 3/2/2017 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

#Name?

107.244	001	Enterococci	EPA 1600
107.245	002	E. coli (Enumeration)	SM9223B (Colilert)

Field of Testing: 108 - Inorganic Chemistry of Wastewater

108.020	001	Conductivity	EPA 120.1
108.110	001	Turbidity	EPA 180.1
108.112	002	Calcium	EPA 200.7
108.112	003	Hardness (calculation)	EPA 200.7
108.112	004	Magnesium	EPA 200.7
108.112	005	Potassium	EPA 200.7
108.112	007	Sodium	EPA 200.7
108.113	003	Magnesium	EPA 200.8
108.120	001	Bromide	EPA 300.0
108.120	002	Chloride	EPA 300.0
108.120	003	Fluoride	EPA 300.0
108.120	008	Sulfate	EPA 300.0
108.120	012	Nitrate (as N)	EPA 300.0
108.120	013	Nitrate-Nitrite (as N)	EPA 300.0
108.120	014	Nitrite (as N)	EPA 300.0
108.120	015	Phosphate, Ortho (as P)	EPA 300.0
108.323	001	Chemical Oxygen Demand	EPA 410.4
108.360	001	Phenols, Total	EPA 420.1
108.381	001	Oil and Grease	EPA 1664A
108.381	002	Oil & Grease Total	EPA 1664 Rev. B
108.390	001	Turbidity	SM2130B-2001
108.410	001	Alkalinity	SM2320B-1997
108.420	001	Hardness (calculation)	SM2340B-1997
108.430	001	Conductivity	SM2510B-1997
108.440	001	Residue, Total	SM2540B-1997
108.441	001	Residue, Filterable TDS	SM2540C-1997
108.442	001	Residue, Non-filterable TSS	SM2540D-1997
108.443	001	Residue, Settleable	SM2540F-1997
108.465	001	Chlorine, Total	SM4500-Cl G-2000
108.465	002	Chlorine, Free	SM4500-Cl G-2000
108.470	001	Cyanide, Total	SM4500-CN B or C-1999
108.472	001	Cyanide, Total	SM4500-CN C,E-1999
108.490	001	Hydrogen Ion (pH)	SM4500-H+ B-2000
108.502	002	Ammonia (as N)	SM4500-NH3 B,E-1997
108.503	002	Kjeldahl Nitrogen, Total (as N)	SM4500-NH3 B,E-1997
108.512	001	Kjeldahl Nitrogen, Total (as N)	SM4500-Norg C-1997
108.585	001	Sulfide (as S)	SM4500-S= F-2000
108.592	001	Biochemical Oxygen Demand	SM5210B-2001
108.592	002	Carbonaceous BOD	SM5210B-2001
108.595	001	Chemical Oxygen Demand	SM5220D-1997
108.596	001	Organic Carbon-Total (TOC)	SM5310B-2000
108.605	001	Surfactants	SM5540C-2000
108.660	001	Chemical Oxygen Demand	HACH8000

Torrent Laboratory, Inc.

Certificate No 1991
Expiration Date 4/30/2018

Field of Testing: 109 - Toxic Chemical Elements of Wastewater			
109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	006	Boron	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7
109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8
109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	014	Selenium	EPA 200.8
109.020	015	Silver	EPA 200.8
109.020	016	Thallium	EPA 200.8
109.020	017	Vanadium	EPA 200.8
109.020	018	Zinc	EPA 200.8
109.104	001	Chromium (VI)	EPA 218.6
109.190	001	Mercury	EPA 245.1
Field of Testing: 110 - Volatile Organic Chemistry of Wastewater			
110.040	000	Purgeable Organic Compounds	EPA 624
Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater			
111.100	000	Base/Neutral & Acid Organics	EPA 625
111.111	000	Dioxins and Dibenzofurans	EPA 1613B

As of 3/2/2017 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

#Name?

111.170	000	Organochlorine Pesticides and PCBs	EPA 608

Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste

114.010	001	Antimony	EPA 6010B
114.010	002	Arsenic	EPA 6010B
114.010	003	Barium	EPA 6010B
114.010	004	Beryllium	EPA 6010B
114.010	005	Cadmium	EPA 6010B
114.010	006	Chromium	EPA 6010B
114.010	007	Cobalt	EPA 6010B
114.010	008	Copper	EPA 6010B
114.010	009	Lead	EPA 6010B
114.010	010	Molybdenum	EPA 6010B
114.010	011	Nickel	EPA 6010B
114.010	012	Selenium	EPA 6010B
114.010	013	Silver	EPA 6010B
114.010	014	Thallium	EPA 6010B
114.010	015	Vanadium	EPA 6010B
114.010	016	Zinc	EPA 6010B
114.020	001	Antimony	EPA 6020
114.020	002	Arsenic	EPA 6020
114.020	003	Barium	EPA 6020
114.020	004	Beryllium	EPA 6020
114.020	005	Cadmium	EPA 6020
114.020	006	Chromium	EPA 6020
114.020	007	Cobalt	EPA 6020
114.020	008	Copper	EPA 6020
114.020	009	Lead	EPA 6020
114.020	010	Molybdenum	EPA 6020
114.020	011	Nickel	EPA 6020
114.020	012	Selenium	EPA 6020
114.020	013	Silver	EPA 6020
114.020	014	Thallium	EPA 6020
114.020	015	Vanadium	EPA 6020
114.020	016	Zinc	EPA 6020
114.103	001	Chromium (VI)	EPA 7196A
114.106	001	Chromium (VI)	EPA 7199
114.140	001	Mercury	EPA 7470A
114.141	001	Mercury	EPA 7471A
114.222	001	Cyanide	EPA 9014
114.240	001	Corrosivity - pH Determination	EPA 9040B
114.241	001	Corrosivity - pH Determination	EPA 9045C
114.250	001	Fluoride	EPA 9056

Field of Testing: 115 - Extraction Test of Hazardous Waste

115.020	001	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311
115.021	001	TCLP Inorganics	EPA 1311
115.022	001	TCLP Extractables	EPA 1311

As of 3/2/2017 , this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

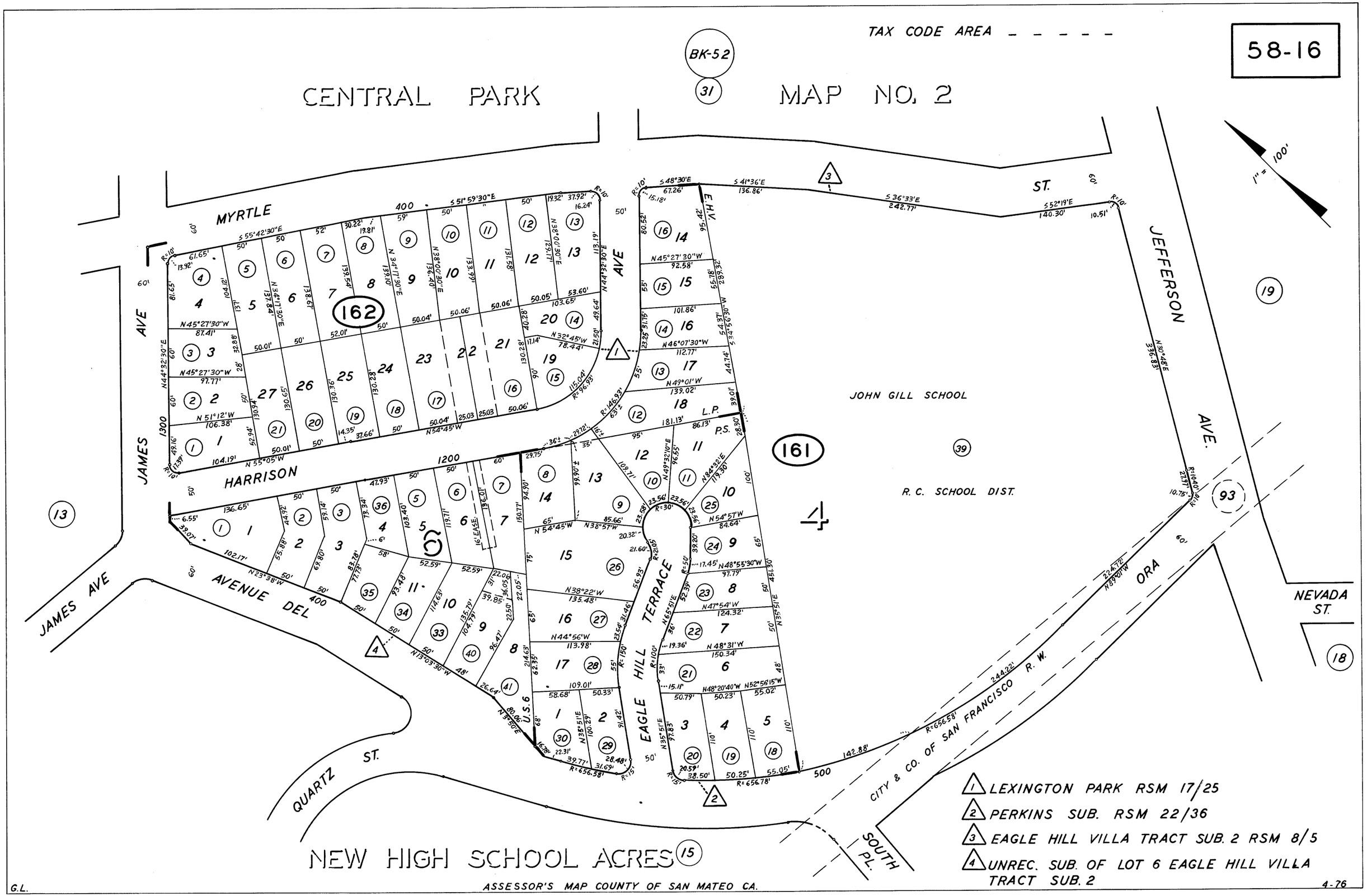
#Name?

115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
115.040	001	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312
Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste			
116.080	000	Volatile Organic Compounds	EPA 8260B
116.080	120	Oxygenates	EPA 8260B
116.100	001	Total Petroleum Hydrocarbons - Gasoline	LUFT GC/MS
116.100	010	BTEX and MTBE	LUFT GC/MS
Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste			
117.010	001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015B
117.110	000	Extractable Organics	EPA 8270C
117.130	000	Dioxins and Dibenzofurans	EPA 8290
117.170	000	Nitroaromatics and Nitramines	EPA 8330
117.210	000	Organochlorine Pesticides	EPA 8081A
117.220	000	PCBs	EPA 8082
Field of Testing: 120 - Physical Properties of Hazardous Waste			
120.070	001	Corrosivity - pH Determination	EPA 9040B
120.080	001	Corrosivity - pH Determination	EPA 9045C
Field of Testing: 126 - Microbiology of Recreational Water			
126.020	001	Total Coliform (Enumeration)	SM9222B-1997
126.040	001	Fecal Coliform (Enumeration)	SM9222D-1997
126.080	001	Enterococci	Enterolert

Appendix F

Assessor's Parcel Map

DRAFT



TAX CODE AREA
58-16
BK-52
31
CENTRAL PARK
MAP NO. 2
1" = 100'
MYRTLE
ST.
JEFFERSON
AVE.
JAMES
AVE
HARRISON
AVENUE DEL
JAMES AVE
QUARTZ ST.
EAGLE HILL TERRACE
E.H.V.
L.P.
P.S.
U.S. 6
JOHN GILL SCHOOL
R. C. SCHOOL DIST.
ORA
NEVADA ST.
CITY & CO. OF SAN FRANCISCO R. W.
SOUTH PL.
162
161
19
13
39
93
18
15
NEW HIGH SCHOOL ACRES
1 LEXINGTON PARK RSM 17/25
2 PERKINS SUB. RSM 22/36
3 EAGLE HILL VILLA TRACT SUB. 2 RSM 8/5
4 UNREC. SUB. OF LOT 6 EAGLE HILL VILLA TRACT SUB. 2
G.L.
ASSESSOR'S MAP COUNTY OF SAN MATEO CA.
4-76

Appendix J
Soil Mitigation Plan

Soil Mitigation Plan

Taft Community School Expansion

Redwood City, California

Prepared for:
Redwood City Unified School District

December 19, 2018

Prepared by:
McCloskey Consultants, Inc.

SOIL MITIGATION PLAN

Taft Community School Expansion

903 10th Avenue

Redwood City , California

December 19, 2018

Prepared for:

REDWOOD CITY UNIFIED SCHOOL DISTRICT

Prepared by:

McCloskey Consultants, Inc.

420 Sycamore Valley Road West

Danville, CA 94526

Christopher M. Vertin
Senior Staff Engineer

Thomas F. McCloskey, P.G., C.E.G., C.Hg.
President and Principal Geologist

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1.0 INTRODUCTION

1.1 Statement of Purpose

McCloskey Consultants, Inc. (MCI) was retained by Redwood City Unified School District (RCUSD) to prepare this Soil Mitigation Plan (SMP) for the proposed renovation/redevelopment of a portion of the existing Taft Community School located at 903 10th Avenue, in Redwood City, San Mateo County, California (Site). The Site location and vicinity map is included as Figure 1. The SMP was prepared to provide a technical and operational plan for removal activities at the Site. The SMP will establish protocols for the excavation, loading, transportation and landfill disposal of soils containing residual concentrations of agricultural chemicals and metals.

1.2 Site Description

The Site consists of rectangular-shaped area in the eastern and northeastern portions of the Taft Community School parcel (Figure 2). The school Assessor's Parcel Number (APN) is 055-063-013 was unavailable from either the RCSD or the San Mateo County Assessor's Office (SMCAO). The school property (including the Site) is approximately 7.56-acres. The Site area for improvements is approximately 2 acres. The school is located in a residential area of Redwood City, approximately 0.4 mile southwest of U.S. Highway 101 (Bayshore Freeway). The Site elevation averages approximately 14 feet above mean sea level. Site and vicinity topography slopes moderately towards the northeast.

The Site is currently developed with facilities of Taft Community School including portions of three single-story, permanent classroom buildings (also including a staff lounge and teacher work room), the library and technology lab, one portable structure and a portion of a second portable structure (housing the Taft Child Development Center and Taft Family Center, respectively), an unpaved garden/outdoor classroom area including several small storage structures, and associated landscaping, play area, and asphalt-paved play, lunch, parking, and driveway areas. Small quantities of janitorial and maintenance materials were observed within a small storage room and a shed. An electrical, pad-mounted transformer is also present on the Site.

MCI understands current redevelopment plans include: (1) partial demolition of three permanent classroom buildings, a faculty lounge, a faculty work room, the library, and a technology lab and storage room on the eastern side of the permanent buildings; (2) removal of the portable structure housing the Taft Child Development Center, and, (3) construction of a new two-story classroom building with school office, lunch room and library, and a new parking lot. The new construction will result in an increase of 10 classrooms. The change in enrollment is unknown.

1.3 Site Background and Investigations

According to information obtained in the Phase I Environmental Site Assessment (ESA, the Site was open, undeveloped grassland in 1943. The first permanent classroom was reportedly constructed on the school property in 1947. The aerial photograph from 1948 suggests the Site was not fully paved at that time, one year after the first classroom had been constructed. The second permanent classroom had been constructed by 1950, and the pavement extended a short distance north of the classroom. By 1953, the remaining two permanent classrooms had been constructed, and the entire Site appeared paved, except the playground on the southwest side of the Site. By 1963, the pavement appeared to have been removed from a small rectangular area (i.e., the current garden/outdoor classroom) on the northeast portion of the Site, likely exposing surface soil. The Taft Family Center was constructed in 1968. By 1982, small areas around the buildings contained trees and landscaping, likely exposing surface soil. Several of the existing buildings were modified in the 1990s, and the Taft Child Development Center (a portable structure) was constructed in 1999. The Site is currently used as an elementary school.

1.3.1 Phase I Environmental Site Assessment

The Phase I Environmental Site Assessment (ESA) (MCI, 2017) was performed to comply with ASTM E1527-13 and included the review of the Site history including a 107 Federal, State, and Local databases as well as local fire and building departments and the performance of a Site reconnaissance for indications of hazardous materials including underground storage tanks both on Site and in the Site vicinity. The purpose of this work was to identify indications of documented site uses or vicinity potential releases of contaminants to soil.

1.3.2 Preliminary Environmental Assessment

A Preliminary Environmental Assessment (PEA) is an initial investigation that provides the information necessary for determining if conditions exist at the Site that could pose a risk to human health or the environment. To evaluate the soil at the Site for the potential presence of contamination that could affect Site development, a PEA investigation was performed by MCI. On December 13, 2017, a pre-scoping PEA Site visit was conducted by the Department of Toxic Substances Control (DTSC), Schools Program. Participants included Mellan Songco (DTSC, Schools Program Project Manager), Vivek Mathrani (DTSC Toxicologist), Donald Dias (Bond Program Director), William Robertson (RGM and Associates), Regina Bills-Dacong (School Site Solutions), and Tom McCloskey (MCI). The scope of sampling work developed for the Site was based on the Site history and DTSC guidance documents for NOA containing soils. The "*Preliminary Environmental Assessment Workplan, Taft Community School Extension, Redwood City"* (Workplan) was then prepared for DTSC review and comment (MCI, 2018). The Workplan was approved by the DTSC in their letter dated May 10, 2018 (Appendix A) prior to implementation of the sampling.

Soil sampling was performed at the Site to evaluate the potential presence of manmade and/or naturally-occurring chemicals that could affect the proposed school development. A total of 55 soil samples were collected from the following areas on the Site: building perimeters; two areas near historical structures, and garden/outdoor classroom area. Analyses included select metals, organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), semi-volatile organic compounds (SVOCs)/polycyclic aromatic hydrocarbons (PAHs), and/or naturally occurring asbestos (NOA) (Tables 1 through 5 in Appendix B).

Detected concentrations were compared to United States Environmental Protection Agency (USEPA) regional screening levels (RSLs) for Residential Use and DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3 Screening Levels (SLs) for chlordane and lead.

1.3.2.1 Building Perimeters

Soil samples were collected from 20 building locations (BP-1 through BP-20) to evaluate the possibility of lead-based paint flakes in near-surface soils, PCBs associated with flaking of window caulking and glazing, and historical application or injection of termiticides (OCPs) around the building foundations. Soil samples were collected at approximate 0.5-foot intervals and depending on the condition of the ground surface (i.e., exposed soil versus asphalt- or concrete-covered), at depths of 0 to 1-foot below ground surface (bgs) and 2 to 3 ½ feet bgs depending on the amount of fill material identified at each sampling location.

Concentrations of several pesticides were detected around the perimeter of the buildings. Concentrations of 4,4'-DDE, 4,4'-DDT, dieldrin, endrin, heptachlor, heptachlor epoxide, hexachlorobenzene and technical chlordane were detected in at least one of the samples collected. An elevated concentration of technical chlordane was detected at sampling location BP-12 (2- 2½ feet bgs) at a concentration of 2.81 milligrams per kilogram (mg/kg). The concentration exceeded its single compound HHRA screening levels for residential soil of 0.44 mg/kg. No other OCPs were detected at or above applicable screening levels.

All of the shallow soil samples were analyzed for arsenic and lead. Five of the samples were also analyzed for the remaining CAM 17 metals. Concentrations of arsenic and lead were detected in 15 of the 20 samples collected exceeding the laboratory reporting limit. Concentrations of barium, beryllium, cadmium, chromium, cobalt, copper, mercury, molybdenum, nickel, vanadium and zinc were detected in at least one of the five samples analyzed for CAM 17 metals. With exception of arsenic and cobalt, the concentrations of all the other metals detected are less than their respective USEPA RSLs and appear to be consistent with the naturally-occurring concentrations in published studies. In two of the samples, total chromium and nickel concentrations appeared to exceed the naturally-occurring background concentrations and were

co-located with the elevated cobalt concentrations. Elevated cobalt ,total chromium and nickel concentrations are consistent with naturally-occurring ultramafic rock (serpentinite). Serpentinite rocks were identified in the base rock material identified in the fill material around the Site.

Arsenic concentrations ranging from 0.991 mg/kg to 8.84 mg/kg were detected in 15 of the sample collected from the building perimeters. The reported arsenic concentrations exceed the USEPA RSL for residential land use of 0.68 mg/Kg; however, naturally occurring arsenic concentrations in San Mateo County soils and San Francisco Bay Region commonly exceed these screening criteria. The naturally-occurring arsenic concentration in the San Francisco Bay Region has been investigated most recently by Duverge' (2011) who found a maximum concentration for naturally-occurring arsenic to be 11 mg/Kg. Site specific maximum arsenic concentrations were evaluated by plotting the arsenic results on a Q-Q scatter plot and other statically methods and show the Site-specific background concentration to be approximately 5.5 mg/kg. The concentrations at three of the building perimeter locations exceeded Site-specific background concentration. The elevated concentrations were detected at sampling locations BP-4 (8.84 mg/kg), BP-13 (6.69 mg/kg) and BP-18 (5.86 mg/kg). The elevated arsenic concentrations were detected in the shallowest of the soil samples collected

Lead concentrations ranging from 1.91 mg/kg to 63.7 mg/kg were detected in 15 of the samples collected from the building perimeters. None of the lead concentrations exceeded the HERO HHRA screening levels for residential soil of 80 mg/kg.

Cobalt was detected in one soil sample (BP-12 at 1-1.5 feet bgs) at a concentration of 37.1 mg/kg, exceeding the USEPA RSL of 23 mg/Kg. The elevated concentrations of cobalt were co-located with elevated concentrations of total chromium and nickel that appear consistent with naturally-occurring ultramafic rock (serpentinite). Chrysotile asbestos was not detected at the Site, although serpentinite was observed in the base rock material beneath concrete or asphalt. Naturally-occurring concentrations in the SF Bay Peninsula area range up to 70 mg/kg (USGS, 1984) and therefore this concentration is likely naturally occurring.

PCB concentrations were not detected in any of the samples exceeding the laboratory detection limits.

Several polycyclic aromatic hydrocarbons were detected in the four samples. Concentration of Anthracene, Benz(a) anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene, 1-Methyl-naphthalene and 2-

Methyl-naphthalene were detected in at least one of the samples collected. The concentrations detected are well below their respective single compound USEPA RSLs for residential uses.

Four duplicate samples were collected from around the building perimeters. The concentrations detected in the duplicate samples were generally consistent with the original samples.

1.3.2.2 Historical Structures

To evaluate potential environmental concerns for lead-based paint flakes in near-surface soils, PCBs associated with window caulking and glazing, and injected termiticides (OCPs) at the historical structure near the Taft Child Development Center and the proposed Future Lunch Shelter, soil samples were collected at four locations (H-1 through HS-4). Near-surface soil samples were collected at an approximate depth of 0 to 0.5 feet bgs from sampling locations H-1 and H-2 and immediately beneath the pavement and baserock section at sampling locations H-3 and H-4. The samples were analyzed for lead (EPA Method 6010B), arsenic (EPA Method 6010B), OCPs (EPA Test Method 8081) and PCBs (EPA Method 8082). One of the samples collected from sampling location H-4 (1 to 1 ½ feet bgs) was also analyzed for PAHs (EPA Method 8270 SIM).

Deeper samples were collected from each of the sampling locations and only analyzed for OCPs.

Concentrations of several pesticides were detected from the samples collected from around the historical structures. Concentrations of aldrin, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin and heptachlor epoxide were detected in at least one of the samples collected. An elevated concentration of heptachlor epoxide was detected at sampling location H-4 (1- 1½ feet bgs) at a concentration of 0.298 milligrams per kilogram (mg/kg). The concentration exceeded its single compound USEPA RSL for residential soil of 0.070 mg/kg. No other OCPs were detected at or above applicable screening levels.

All four of the shallow soil samples were analyzed for arsenic and lead. One of the four samples was also analyzed for the remaining CAM 17 metals. Concentrations of arsenic were detected in two of the four samples collected exceeding the laboratory reporting limit. Concentrations of lead were detected in all four samples collected exceeding the laboratory reporting limit. Concentrations of barium, beryllium, chromium, cobalt, copper, mercury, nickel, vanadium and zinc were detected in the sample analyzed for CAM 17 metals. With exception of cobalt, the concentrations of all the other metals detected are less than their respective USEPA RSLs and appear to be consistent with the naturally-occurring concentrations in published studies. Total chromium and nickel concentrations appeared to slightly exceed the naturally-occurring background concentrations and were co-located with the elevated cobalt concentrations.

Elevated cobalt, total chromium and nickel concentrations are consistent with naturally-occurring ultramafic rock (serpentinite). Serpentinite rocks were identified in the base rock material identified in the fill material around the Site.

Arsenic concentrations were detected at 2.37 mg/kg and 3.27 mg/kg in the sample collected from around the historical structures. The reported arsenic concentrations exceed the USEPA RSL for residential land use of 0.68 mg/Kg; however, neither of the concentrations detected exceeded the Site-specific background concentration of 5.5 mg/kg.

Lead concentrations ranging from 1.13 mg/kg to 53.4 mg/kg were detected in the samples collected from around the historical structures. None of the lead concentrations exceeded the HERO HHRA Note 3 screening levels for residential soil of 80 mg/kg.

Cobalt was detected in one soil sample (H-4 at 1 to 1½ feet bgs) at a concentration of 35.2 mg/kg, exceeding the USEPA RSL of 23 mg/Kg. The elevated concentrations of cobalt were co-located with elevated concentrations of total chromium and nickel that appear consistent with naturally-occurring ultramafic rock (serpentinite). Chrysotile asbestos was not detected at the Site, although serpentinite was observed in the base rock material beneath concrete or asphalt. Naturally-occurring concentrations in the SF Bay Peninsula area range up to 70 mg/kg (USGS, 1984) and therefore this concentration is likely naturally occurring.

No PCBs were detected at or above their respective reporting limits in the sample.

Several polycyclic aromatic hydrocarbons were detected in the one sample analyzed. Concentrations of Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i) perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene and Pyrene were detected in at least one of the samples collected. The concentrations detected are well below their respective single compound USEPA RSLs for residential uses.

1.3.2.3 Garden / Outdoor Classroom

Soil samples were collected at two locations (SS-1 and SS-2) in the garden / outdoor classroom to evaluate for the possibility of naturally occurring and anthropogenic metals, lead-based paint flakes in near-surface soils and surface application of OCPs.

Approximately one foot of fill soil was observed at sampling location SS-1. An additional sample was collected at 1 to 1 ½ feet bgs from sampling location SS-1 and analyzed for lead, arsenic and OCPs.

Concentrations of several pesticides were detected from the samples collected from the garden / outdoor classroom. Concentrations of 4,4'-DDE, 4,4'-DDT, heptachlor, hexachlorobenzene, chlordane and toxaphene were detected in at least one of the samples collected. Although none of the concentrations detected exceeded their respective single compound USEPA RSL for residential soil, the concentrations detected at sampling location SS-2 exceeded risk guidelines when multiple detected OCPs were summed.

Arsenic concentrations were detected ranging from 1.71 mg/kg to 7.12 mg/kg in the samples collected from the garden / outdoor classroom. The reported arsenic concentrations exceed the USEPA RSL for residential land use of 0.68 mg/Kg; and one of the concentrations detected also exceeded the Site-specific background concentration of 5.5 mg/kg. The elevated concentration was detected in the duplicate sample collected from sampling location SS-1 (7.12 mg/kg) at a depth of 1 to 1½ feet bgs.

Lead concentrations ranging from 2.76 mg/kg to 32.2 mg/kg were detected in the samples collected from around the garden / outdoor classroom. None of the lead concentrations exceeded the HERO HHRA Note 3 screening levels for residential soil of 80 mg/kg.

1.3.2.4 Transformer

A pad-mounted transformer is located on the northern end of the Site and could contain PCBs. To evaluate the potential of historical leaks of PCB-containing oil, one near-surface soil sample (T-1) was collected at the transformer at a depth of 0.25 to 0.75 foot bgs in the area directly opposite the transformer access doors (Figure 2). The sample was analyzed for PCBs (EPA Test Method 8082).

No PCBs were detected at or above their respective reporting limits in the sample.

1.3.2.5 Naturally-Occurring Asbestos

The Site is located approximately 1.23 miles north-northwest of Encinal School at 181-195 Encinal Avenue, in Atherton, California. A PEA was conducted at the Encinal School in 2008 that involved collection of soil samples for NOA analyses due to the school's proximity (i.e., within the 10-mile radius that triggers sampling) to ultramafic rocks at localized areas in the Coastal Range to the west. In that PEA, the DTSC agreed to streamline the NOA investigation by including NOA assessments performed at Oak Knoll School and Hillview School. A total of 15 soil samples were collected between Encinal School and Oak Knoll School from soil borings and trenches. The samples were analyzed for asbestos using Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM).

The results of that investigation indicated detectable asbestos fibers in seven samples, of which only two had concentrations above 0.01 percent, and those samples were reportedly collected from surface soils believed to have been imported fill. Based on the results of that sampling, the DTSC concurred with the recommendation to remove the surface fill, and no further investigation was required. The DTSC approved the PEA in correspondence dated August 21, 2008 (DTSC, 2008).

The Taft Community School is located farther east from the Coastal Range than Encinal and Oak Knoll Schools, therefore, the likelihood of greater NOA in native soils was low, therefore NOA was not considered a Site contaminant of concern. Although sampling of the native soils was not recommended, sampling of fill soil at five locations was performed and the samples analyzed for NOA.

Samples were analyzed by Asbestos TEM Laboratories, Inc. of Berkeley, California. The samples were analyzed for NOA using polarized light microscopy (PLM) in accordance with California Air Resources Board (ARB) Method 435 and a 400-point count, with a reporting limit of 0.25% by counted particle. No chrysotile fibers were detected exceeding the 0.25% detection limit in any of the five samples analyzed by the PLM (CARB 435 400 Point Count) method. The NOA sampling results using the PLM method do not exceed the DTSC Schools Program screening level of 0.25%.

Because of the fine-grained nature of some of the Site import fill soils, analyses by Transmission Electron Microcopy (TEM) Quantitative EPA Method (TEM NOA EPA/CARB Quantitative) was requested to resolve the presence of small asbestos fibers. Two of the fill soil samples were analyzed by the TEM NOA EPA/CARB Quantitative had a reporting limit of less than 0.00001% by dry weight and followed the CARB Method 435 preparation. The prepared samples followed the analytical methods specified in the USEPA bulk method (EPA/600/R-93/116). The laboratory identified all structures with aspect ratios greater than 3:1, and lengths greater than or equal to 0.5 microns. The laboratory did not detect asbestos fibers in either of the samples exceeding the laboratory reporting limit.

1.3.3 Supplemental Site Assessment (SSI)

Supplemental sampling was performed at four locations (BP-4, BP-13, H-4 and SS-1) to evaluate the lateral and vertical extent of the elevated arsenic, cobalt and pesticide concentrations detected around some of the existing buildings, the historical structures and the garden / outdoor classroom. Step-out and step-down sampling was completed on September 8, 2018. The laboratory results of the metal analyses are summarized in Table 1, Appendix A. The laboratory results of the pesticide analyses are summarized in Table 3, Appendix A.

The step-out and step-down sampling performed at sampling location BP-4 identified arsenic concentration of 2.83 mg/kg and 3.01 mg/kg. The reported arsenic concentrations exceed the USEPA RSL for residential land use of 0.68 mg/Kg; however, did not exceed the Site-specific background concentration of approximately 5.5 mg/kg. Based on the sampling results, the lateral and vertical extent of the arsenic contamination at sampling location BP-4 appears to be fully delineated.

The step-out and step-down sampling performed at sampling location BP-13 identified arsenic concentration of 3.14 mg/kg and 3.40 mg/kg. The reported arsenic concentrations exceed the USEPA RSL for residential land use of 0.68 mg/Kg; however, did not exceed the Site-specific background concentration of approximately 5.5 mg/kg. Based on the sampling results, the lateral and vertical extent of the arsenic contamination at sampling location BP-13 appears to be fully delineated.

The step-out and step-down sampling performed at sampling location SS-1 identified an elevated arsenic concentration of 7.64 mg/kg at the 5-foot step-out sampling location to the west (½ to 1 feet bgs) that exceeded the Site-specific background concentration of approximately 5.5 mg/kg. The remaining step-out and step-down arsenic concentrations ranged from 0.629 mg/kg to 4.94 mg/kg. The reported arsenic concentrations exceed the USEPA RSL for residential land use of 0.68 mg/Kg; however, did not exceed the Site-specific background concentration of approximately 5.5 mg/kg. Based on the sampling results, the lateral and vertical extent of the arsenic contamination at sampling location SS-1 appears to be fully delineated.

The step-out and step-down sampling performed at sampling location H-4 did not identify heptachlor epoxide concentrations exceeding the laboratory reporting limits. Based on the sampling results, the lateral and vertical extent of the pesticide contamination at sampling location H-4 appear to be fully delineated. The additional sampling at sampling location H-4 identified that elevated cobalt concentrations were primarily detected in the shallow fill material (base rock) and appears to be associated with the ultramafic rock (NOA) and therefore not a contaminate of concern.

The elevated pesticides and metals concentrations identified in shallow soils will be mitigated by excavation. The soil would be off-hauled and disposed of at an appropriately-licensed landfill prior to Site development. Some of this soil contains arsenic and elevated pesticide concentrations that should be resampled and tested after excavation and stockpiling to determine appropriate transportation and landfill disposal options. Based on the PEA and SSI sampling results, it is not anticipated that the material is hazardous waste.

1.4 Contact Information

Mr. Donald Dias Bond Program Director Redwood City School District 750 Bradford Street Redwood City, California 94063 (650) 482-2230 (office)		Thomas F. McCloskey, P.G., C.E.G., C.Hg President and Principal Geologist McCloskey Consultants, Inc. 420 Sycamore Valley Road West Danville, CA 94526 (925) 786-2667

2.0 NATURE, SOURCE, EXTENT OF CONTAMINANTS AND CLEANUP GOALS

2.1 Type, Source and Location of Contaminants

The contaminants present in soil at the Site include organochlorine pesticides (specifically technical chlordane and heptachlor epoxide), arsenic, and cobalt. The origin of the organochlorine pesticides in soil at the Site appears to be pesticide application in the area around the base of the buildings. The origin of the arsenic in soil at the Site (exceeding naturally-occurring concentrations) appears also to be pesticide, herbicide, or rotocide application in the area around the base of the buildings and garden area. The origin of the cobalt in soil at the Site appears to be from naturally-occurring metal concentrations commonly associated with ultramafic rock. The cobalt is co-located with elevated nickel and chromium concentrations that are associate with ultramafic rock and does not appear to be a contaminant of concern. The ultramafic rock appears to be part of the base rock material beneath the asphalt and concrete.

2.1.1 Organochlorine Pesticides

2.1.1.1 Technical Chlordane

Technical chlordane belongs to a group of organochlorine pesticides called cyclodiene insecticides (this group also includes aldrin, endrin, heptachlor, and endosulfan). Cyclodiene insecticides historically were used as soil insecticides and for termite control due to their stability in soil and relative stability when exposed to sunlight. Technical chlordane is a mixture of at least 50 compounds including alpha-and gamma-chlordane, and heptachlor; alpha- and gamma-chlordane

2.1.1.2 Heptachlor Epoxide

Heptachlor is also a manufactured chemical that was used for killing insects in homes, in buildings, and on food crops. It has not been used for these purposes since 1988. Heptachlor is both a breakdown product and a component of the pesticide chlordane (approximately 10% by

weight). Heptachlor epoxide is a white powder. It was not manufactured and was not used as an insecticide like heptachlor. Bacteria and other organisms break down heptachlor to form heptachlor epoxide. About 20% of heptachlor is changed within hours into heptachlor epoxide in the environment and in organisms.

2.1.2 Arsenic

Arsenic is a naturally-occurring element widely distributed in the earth's crust. In the environment, arsenic is combined with oxygen, chlorine, and sulfur to form inorganic arsenic compounds. Arsenic in animals and plants combines with carbon and hydrogen to form organic arsenic compounds. Organic arsenic compounds have been used as pesticides and herbicides.

2.1.3 Cobalt

Cobalt is a hard, gray metal and is a naturally occurring element found in rocks, soil, water, plants, animals and humans.

Elevated background concentrations of cobalt in soils are commonly found in ultramafic rocks along with elevated nickel and chromium. Ultramafic rocks were identified in the baserock material underlying the Site. The elevated cobalt concentrations at the Site appear to be associated with naturally-occurring conditions and do not represent a contaminate of concern for the Site.

2.2 Extent of Contamination

2.2.1 Organochlorine Pesticides

The soils impacted by organochlorine pesticides at the Site appear limited to shallow soils adjacent to one of the original older buildings, the historical structures and in the outdoor classroom/ garden. The impacted soil generally occurs as a strip (approximately 3 feet wide) adjacent to the building, and in the upper two feet of soil. The distribution of pesticides in exceedance of the relevant USEPA RSLs in shallow soil at the Site is presented on Figure 2.

2.2.2 Arsenic

The soils impacted by arsenic at the Site appear limited to soils adjacent to older original buildings and in the outdoor classroom/garden area. The impacted soil generally occurs as a strip adjacent to the building and in a small portion in the outdoor classroom/ garden area in the upper two feet of soil. The distribution of arsenic in exceedance of naturally-occurring concentrations at the Site is presented on Figure 2.

2.3 Health Effects of Contaminants and Exposure Pathways

The United States Department of Health and Human Services, Agency for Toxic Substance & Disease Registry (ATSDR) has prepared ToxFAQs™ fact sheets detailing the most frequency asked

questions about several toxic substances. The fact sheets were used as the primary source for the description of the health hazards of the on-Site contaminants.

2.3.1 Organochlorine Pesticide

2.3.1.1 Technical Chlordane

Chlorinated cyclodiene insecticides are structurally related by the same mechanism of action including chlordane. The cyclodienes persist in the environment and accumulate in fatty tissues of biologic organisms. The central and peripheral nervous systems are the target organs. Headache, nausea, vomiting, dizziness, and mild chronic jerking are characteristic symptoms of over exposure. Increased exposure can increase the severity of these symptoms and advance to convulsions. The cyclodienes also can produce liver damage.

Chlordane is a class B2 carcinogen based on liver tumors observed in experimental animals. The non-carcinogenic reference doses assigned to the cyclodienes are based on the critical effect of pathologic changes in the liver and increased liver weight of experimental animals.

2.3.1.2 Heptachlor Epoxode

No reliable human studies were found that show if harmful effects occur from eating contaminated foods or by drinking liquids contaminated with heptachlor epoxide. Studies have shown a number of harmful health effects when animals were fed heptachlor epoxide. These effects were more harmful when the exposure levels were high or when exposure lasted many weeks. The effects observed in animals include damage to the liver, excitability, and decreases in fertility.

Animals fed heptachlor throughout their lifetime had more liver tumors than animals that ate food without heptachlor. EPA and the International Agency for Research on Cancer have classified heptachlor as a possible human carcinogen. EPA also considers heptachlor epoxide as a possible human carcinogen.

2.3.2 Arsenic

Humans breathing high levels of inorganic arsenic can result in a sore throat or irritated lungs. Ingesting very high levels of arsenic can result in death. Exposure to lower levels can cause nausea and vomiting, decreased production of red and white blood cells, abnormal heart rhythm, damage to blood vessels, and a sensation of "pins and needles" in hands and feet (ATSDR, 2007b).

Ingesting or breathing low levels of inorganic arsenic for a long time can cause a darkening of the skin and the appearance of small "corns" or "warts" on the palms, soles, and torso.

Skin contact with inorganic arsenic may cause redness and swelling.

Almost nothing is known regarding health effects of organic arsenic compounds in humans. Studies in animals show that some simple organic arsenic compounds are less toxic than inorganic forms. Ingestion of methyl and dimethyl compounds can cause diarrhea and damage to the kidneys.

2.4 Selection of Contaminants of Concern

To establish soil remediation goals for the future removal actions at the Site, a variety of screening level risk and hazard evaluation regulatory agency documents were used depending on the contaminant. The remediation goals for pesticides and metal concentrations is set forth in the USPEA RSLs which have recommended screening-level remediation goals for technical chlordane and heptachlor epoxide. The California HHRA HERO Note 3 screening level for chlordane is less than the USEPA RSLs and therefore will be used as the remediation goal. The remediation goal for the arsenic concentrations was determined by determining the Site-specific naturally-occurring background concentration using Q-Q scatter plots similarly generated by the use of the ProUCL software used by the USEPA and other statistical analysis.

USEPA Residential RSLs and HHRA HERO Note 3 are risk-based screening concentrations for carcinogens that are primarily calculated assuming a 30-year residential exposure period via incidental ingestion, dermal contact, and inhalation of airborne chemical constituents from affected soil media. Chemicals were considered for elimination if their maximum detected concentration was less that it's USEPA residential RSL concentration and HHRA HERO Note 3 (chlordane). The second step of the risk screening process is to evaluate those chemicals considered for elimination to determine their potential contribution to human health risk and hazard quotient for a given sample location. Any chemicals eliminated using this screening process will not significantly contribute to risk at the Site. Those screened compounds include all chemicals detected in soil at the Site.

2.4.1 Selected Contaminants of Concern

The goal of the planned remediation for chemical contaminants is to remove soils with concentrations exceeding the USEPA RSLs, the updated California HHRA HERO Note 3 as available and naturally-occurring background levels. The selected contaminants of concern (COCs) and their maximum detected concentrations are summarized in the table below. The remedial goals for the COCs are further discussed in Section 2.5.

Contaminants of Concern and Maximum Concentrations

Compound	Maximum Concentration Detected (mg/kg)
Chlordane	2.81
Heptachlor epoxide	0.298
Arsenic	8.84

2.5 Summary of Remedial Goals

During confirmation sampling each area of the Site subject to removal action will be considered remediated and available for unrestricted use once the individual USEPA RSLs and HHRA HERO Note 3 health screening levels (whichever is lower in concentration for any given Site COC) are achieved for the single chemicals, and if multiple chemicals are present, the cumulative health risk is determined to be less than one-in-one million (1×10^{-6}). For technical chlordane, the HHRA Hero Note 3 health screening level will be used as a cleanup goal (CG). For heptachlor epoxide, the USEPA RSL will be used as a CG, and for arsenic the Site-specific background concentration. The selected contaminants of concern (COCs) and their respective cleanup goals are summarized in the table below.

If multiple pesticides are identified in confirmation soil samples collected during removal actions in the affected areas, the cumulative risk will be calculated using the ratio sum method recommended by the CHHSL guidance (Cal/EPA, 2005) which is identical to USEPA methods. For this Site, the concentrations of each OCPs identified will be divided by its corresponding USEPA RSL of HHRA HERO Note 3 concentration and the results will be summed together. The goal is to establish a total risk not to exceed 1×10^{-6}. If it appears during remediation that excessive soil removal is occurring, then MCI would consult with the District prior to additional excavation.

Proposed Site Cleanup Goals

Compound	Highest Concentration Detected (mg/kg)	Goal (mg/kg)
Chlordane	2.81	0.440[1]
Heptachlor Epoxide	0.298	0.070[2]
Arsenic	8.84	5.5[3]

1 Based on Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels for Residential Soils, Release Date June, 2018.

2 Based on USEPA Regional Screening Levels for sensitive uses (May 2018).

3 The Site-Specific naturally-occurring background concentrations calculated using the Q-Q Scatter Plot, Appendix C.

2.5.1 Arsenic - Soil

To determine the remediation goal for arsenic, a Q-Q Plot of the Site arsenic concentrations was performed to examine a change in the slope of the plotted data. The break in the slope indicates the upper limit of naturally-occurring arsenic concentrations from man-made arsenic. The result of this plotting is included in Appendix C and indicates that the naturally-occurring maximum concentration of arsenic is about 5.5. mg/kg.

This CG shall be considered achieved when the excavations have been completed, confirmation samples have been collected, and the 95% UCL of the arithmetic mean of the data set, that includes the laboratory confirmation sample results and any data points not included within the volume of arsenic impacted soils removed during the excavation, is less than the CG.

2.5.2 OCPs - Soil

In accordance with DTSC guidance, the CGs for OCPs will be the USEPA residential RSLs and HHRA HERO Note 3 health screening levels (whichever is lower in concentration for any given Site COC). Technical chlordane and heptachlor epoxide were detected on-Site at an elevated concentration. The HHRA HERO Note 3 health screening level for technical chlordane 0.44 mg/kg (DTSC, 2018). The USEPA RSL screening level for heptachlor epoxide is 0.070 mg/kg (USEPA, 2018).

3.0 REMEDIATION SITE MANAGEMENT

An objective of the SMP is to provide the Site management protocols for handling impacted soil at the Site during the remedial activities to minimize the threat to human health and the environment. Proposed remediation activities will require a licensed hazardous waste contractor (Class A) and contractor personnel that have 40-hour OSHA hazardous waste training.

The areas and depth of soils to be removed are included on Figure 3. The total amount to soil is estimated to be up to approximately 115 cubic yards which includes a conservative 30% additional excavation that is possible after confirmation sampling of the excavations and additional excavation.

Baserock in the areas where elevated cobalt was detected will be tested for naturally-occurring asbestos prior to the remediation activities. The baserock will be analysed by using polarized light microscopy (PLM) in accordance with California Air Resources Board (ARB) Method 435 and a 400-point count, with a reporting limit of 0.25% by counted particle. The analysis of the baserock will be performed to determine if asbestos dust monitoring will be needed during remediation activities.

3.1 Site-Specific Health and Safety Worker Requirements

A Site-specific Health and Safety Plan (HSP), included as Appendix D, has been developed to inform personnel of the potential hazards associated with implementing the SMP and to minimize exposure to Site contaminants. Contractors are responsible for the health and safety of their own employees and are required to have their own HSPs and Injury and Illness Prevention Plans (IIPPs) to comply with OSHA. The HSP will be in force at the Site, and the contractors can utilize that HSP as a template to create their company-specific HSP.

The HSPs will provide general health and safety guidance such that field activities can be conducted in a safe manner. Per Cal/OSHA requirements (California Code of Regulations, Title 8), each contractor working at this Site must prepare a health and safety plan that addresses the safety and health hazards during each phase of Site operations that includes the requirements and procedures for employee protection. The HSPs will provide standard operating procedures for personnel involved in activities that may expose them to chemical and physical hazards associated with the removal of impacted soil at the Site. The plan must be kept on-Site during soil removal and loading activities. Prior to conducting work on-Site, project management and field staff must be familiar with the contents of the HSP.

3.2 Pre-Field Activities

Several pre-field activities will be required prior to the initiation of Site activities, as discussed below. The removal activities must be performed by a California-certified contractor.

3.2.1 Permitting

The selected contractors will obtain all applicable permits and notification required for performing soil excavation and off-haul from all the appropriate agencies. There is currently no USEPA identification number for this Site, this would only need to be obtained if stockpile sampling determines that hazardous waste concentrations were identified in the soil and it will need to be off-hauled and disposed at a Class I Hazardous Waste landfill. The removal action contractor hired by the District would have to obtain a temporary EPA ID number from the USEPA for the generation, transportation and offsite disposal of soils containing pesticides and metals with hazardous waste concentrations. Based on the concentration detected in the PEA and SSI sampling, this is not anticipated. An Air Monitoring and Dust Mitigation Plan (AMDMP) is unlikely and would only be needed in the baserock contains more than 0.25% and the disturbance exceeds 1 acre. A Storm Water Pollution Prevention Plan (SWPPP) would be needed if the area of disturbance exceeds 1 acre.

3.2.2 Utility Clearance

To attempt to locate public underground utilities, the remediation contractor will mark the work area with white spray paint and contact Underground Service Alert (USA) at least 48 hours prior to the initiation of remediation activities.

3.2.3 Work Zones

Work zones will be cordoned off prior to the initiation of Site activities, and ingress and egress from these areas will be controlled. A more detailed discussion of work zones at the Site is presented in Section 3.3.

3.2.4 Support Zone/Staging Area

The support/staging area will be set up on-Site prior to starting operations and will be in a contaminant-free as discussed below and on Figure 4. This area will provide for administrative and support functions (first-aid station, rest area, drinking facility, equipment recharging facilities, etc.) necessary to keep the field activities running smoothly. The contractor shall provide potable water and wash facilities for the field personnel in this location. The support/staging zone will be established prior to the initiation of removal activities.

3.3 Site Control

Site control is intended to control the potential spread of contamination from the Site. The affected area will need to be separated from the public by a temporary fencing, to be installed by the remediation contractor. Prior to field activities, the Site will be divided into three zones: exclusion zone, decontamination zone, and support zone. Within the exclusion zone are individual work zones where contaminated material is being excavated, stockpiled, or loaded. Ingress to and egress from Site will be controlled via locking gates. The excavated soil will be stockpiled at the closest available area on plastic sheeting.

3.3.1 Exclusion Zone

The areas where remedial activities will take place and the stockpiling of the contaminated material will be considered the exclusion zone, as shown on Figure 4. Ingress to and egress from the exclusion zone will be controlled. Unauthorized individuals will not be allowed within the exclusion zone.

The fencing to be installed along 10th avenue and Bay Road will be posted the following notice that reads:

WARNING **CONTAMINATED WORK AREA NO SMOKING OR EATING**	·	**WARNING** **This Site contains chemicals known to the State of California to cause cancer or other reproductive toxicity.** **AUTHORIZED PERSONNEL ONLY**

3.3.2 Decontamination Areas

Decontamination areas will be established prior to the initiation of chemically-affected soils remediation activities. The decontamination area will be established such that dust, debris, and soil are removed from equipment, transportation vehicles, and personnel leaving the exclusion zone. It is expected that trucks loaded from the contaminated soil stockpiles can be done on pavement thereby preventing contact with soils and washing will not be necessary. A more detailed discussion of decontamination procedures and implementation is presented in Section 3.7.

3.3.3 Support Zone/Staging Area

As described in Section 3.2.4 the support zone/staging area will be established prior to the initiation of removal activities.

3.4 Excavation of Impacted Soil

The removal action is estimated to consist of the excavation of up to approximately 115 cubic yards (in-place yardage) of pesticide and metals containing soil and transportation of the material to off-Site disposal facilities. Excavation confirmation sampling requirements are included in Section 3.9. The areas to be excavated are shown on Figure 3. For the arsenic and pesticide removal areas, the initial excavations are estimated to be 1 to 1½ feet deep and include portions of one side of existing structures, two areas in the garden / outdoor classroom and one area on the southwestern portion of the Site. The depths of the excavations are estimated and contamination may be present in deeper soils in limited areas. These areas will be determined after the initially planned excavations and confirmation sampling.

The estimated yardage includes a contingency that additional soil (up to 30%) may need to be excavated should some confirmation samples have contaminants that exceed the Site remediation goal concentrations.

Site grading and the construction of the new school buildings will not take place until after the remedial activities.

3.4.1 Construction Equipment

Excavation, soil stockpiling, and loading are the anticipated activities for the soil remediation. Backhoes or mini excavators likely will be used to excavate the soil and rubber-tire loaders used to stockpile and move the material. A water truck and/or on-Site water sources will be used for dust control.

3.4.2 Excavation/Relocation Procedures

The contaminated soils will need to be excavated and temporarily stockpiled on Site for sampling and landfill acceptance profiling before off-haul. Inactive stockpiles will be kept covered with plastic sheeting and anchored at all times except when the soil is actively being added or removed. Stockpiling will take place on plastic at the closest, convenient locations to the excavations.

The approximate limits and depths of the excavation areas necessary to remove the impacted soil with concentrations exceeding the regulatory thresholds are presented on Figure 3. The final excavation dimensions may be larger or deeper if the confirmation sampling results indicate that additional soil excavation is needed to reach the Site remedial goals. The arsenic and pesticide impacted soils will be stockpiled and resampled for landfill review and acceptance.

Following excavation of the pesticide and metals impacted soils confirmation soil samples will be collected from the sidewalls and the bottom of the excavations to evaluate if sufficient impacted soil has been removed. Excavation activities will be considered complete when the confirmation samples collected from the remaining in-place soil do not contain COC concentrations that exceed the respective remedial goals, as discussed in Section 2.5. Confirmation sampling is described in more detail in Section 3.9.

3.4.3 Stockpile Profiling

The stockpiles of excavated soils will be sampled for landfill profiling purposes and to accumulate a sufficient quantity of soil to avoid truck standby and partial loads. To profile the material for off-Site disposal, composite soil samples will be collected from the stockpiled soil and analyzed prior to landfill acceptance. The sampling frequency and analyses will vary by disposal facility. Stockpile soil sample collection and laboratory analysis will be performed by MCI. Solubility and leaching testing during the stockpile profile sampling may cause the analytical results to be received as much as 5 days from the collection of the samples. If any contaminants exceed hazardous waste threshold concentrations, the soil will need to be disposed at a Class I hazardous waste landfill, or possibly out of state as a non-hazardous waste if it can be done at a lesser cost.

It is not anticipated that hazardous waste will be identified due to previous sampling results. In no case will the soils be reused at a different site. Soils must be disposed at a licensed landfill in California.

3.4.4 Truck Loading Procedures

Once the soil is approved for landfill disposal, the truck loading will be carefully done and supervised such that minimal spillage occurs during loading and trucks do not come into contact with the impacted soils. As an added measure of protection, heavy plastic sheeting will be placed beneath the trucks to collect any spilled soil. Any spilled soil will be immediately removed and placed back into the truck trailer to avoid the spreading of impacted soil onto the truck tires which could result in track-out of contaminated soils.

3.4.5 Transportation Procedures

This section outlines the requirements and procedures for transportation of the excavated soil to an off-Site disposal facility (Class I hazardous waste landfill, a Class II or III non-hazardous waste landfill). The appropriate disposal facility will be determined based on the results of the stockpile soil profiling.

It is anticipated that large end-dump trucks will be used which hold 10-12 cubic yards of soil depending on the weight of the material. Although not anticipated, any potential Class I material would need to be hauled and disposed separately from Class II or Class III soils.

The soil will be transported by an appropriately licensed transporter. The necessary documents, such as the bills of lading and/or waste manifest forms, will be completed and accompany the truck driver to the landfill. The trucks will be loaded at the Site and appropriately covered (tarped) in accordance with Department of Transportation (DOT) regulations. The loads will be wetted to minimize dust generation and covered with a tarp before leaving the Site.

3.5 Dust and Erosion Control

Site control procedures will be established to control the potential generation of dust and exposure to worker and Site neighbors. These controls include a variety of dust control methods and practices designed to minimize the generation and spread of dust. A water truck or other source of water will be used to deliver water to the Site for dust control purposes. Experience at similar sites in the area has shown that if good dust control is maintained, dust emissions can be kept below action levels.

Air monitoring will be conducted to control dust emissions during Site remedial activities. The dust control measures are outlined below and will be followed at all times during remedial activities.

These conditions include but are not limited to the following:

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas and unpaved access roads) shall be watered at least twice daily when under dry weather conditions.
- All haul trucks transporting soil, sand, and other loose material off-site shall be covered.
- 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.
- All vehicle speed on unpaved roads shall be limited to 5 miles per hour.

3.5.1 Disturbed Surfaces and Stockpile Control Measures

During site activities, disturbed soil surfaces will be kept adequately wetted to control dust generation. This includes the removal activities conducted around the existing buildings, historical buildings areas and outdoor classroom/garden area. Areas of exposed soils will be wetted at least daily or more to inhibit dust generation. For the pesticide and metals-impacted soil, the excavated soil will be placed on visqueen, covered with visqueen at the end of the day, anchored, and uncovered only during movement of the soil. These stockpiles will be sampled for landfill characterization and once characterized, will be loaded and off-hauled to the appropriate Class II or III facility.

3.5.2 Control for Earthmoving Activities

In addition to the conditions above, during soil removal/relocation activities, the ground will be pre-wetted prior to excavation. The relocation operations will be suspended when wind speeds are great enough to result in dust emissions from the point-of-origin or crossing the exclusion zone boundary, despite the application of dust control mitigation measures. Drop heights will be minimized during the excavation of the soil and the loading of the haul trucks to minimize the creation and dispersion of dust.

3.6 Air Monitoring

Air monitoring will be performed along the perimeter of the Site to evaluate the effectiveness of the dust control measures. Details of the air monitoring trigger and action levels are summarized in the table below.

Air Monitoring Summary

Air Monitoring	Location	Trigger Level (increase dust mitigation)	Action Level (stop work)
Total Dust[1] (PM10)	Perimeter (fenceline)	"no visible dust"	0.05 mg/m^3

1 – Based on the California Ambient Air Quality Standards (CAAQS) for PM_{10} dust standard, upwind vs. downwind samples (24 hour average).

If the Site-Specific Trigger Level is reached or exceeded, dust control measures must be increased until the Site-Specific Trigger Level can be achieved. If the Site cannot be reliably controlled, or if the Action Level is reached or exceeded, all work will be stopped. If the Action Levels are exceeded, the District project manager will be notified immediately.

3.6.1 Perimeter Air Monitoring

Due to the close proximity of the Site to the existing school and to adjacent residential areas, perimeter monitoring will be performed every day impacted soils are handled or disturbed (e.g., grading, and soil excavation and soil removal activities). During remediation activities perimeter dust levels will be monitored at one upwind and two downwind locations.

Site perimeter dust concentrations will be monitored using particulate meters (Thermo Scientific ADR 1200S or equivalent). The particulate meters will be operated in data logging mode and used to measure and record real-time airborne dust concentrations. The locations of the meters will be determined each day by the designated personnel and will be based on the daily prevailing wind direction. The particulate meters will be checked approximately every hour during the course of remediation activities. Each time the meters are checked, the difference between the average upwind dust concentration, and the average downwind dust concentrations, will be compared to the CARB ambient air quality standard of 0.05 mg/m^3 for total dust (24-hour average for PM10). This standard has been selected as the fence line action level protective of the public community health. Dust control measures will be implemented to comply with these standards, as needed. Site air monitoring action levels are presented in table above. The particulate meter records and stores measured particulate concentrations that can be downloaded and printed. These records will be kept along with the weather conditions each day and the prevailing wind directions throughout the day. Copies of the records will be submitted with the Removal Action Completion Report.

The monitoring also will consist of visual observations of grading activities. If dust is observed leaving the Site (greater downwind concentrations than upwind concentrations), increased dust

control measures will be implemented. If these measures are not effective because of conditions such as high winds, work will be stopped until winds subside.

3.7 Decontamination

Decontamination procedures will be followed before equipment or personnel exit the exclusion zone as part of general protocols for preventing or reducing the physical transfer of impacted materials from the affected areas. The following sections discuss decontamination zones, and decontamination procedures.

3.7.1 Equipment Decontamination and Track-Out Controls

Decontamination procedures for equipment will utilize wet methods such as pressure washing after the excavation of the impacted soils. The heavy equipment buckets used during the excavation and loading of the impacted soils can be cleaned by pressure washing over the stockpiled impacted soils to avoid generation of rinse water.

As previously described, truck loading will be carefully done and supervised such that minimal spillage occurs during loading and trucks do not come into contact with the impacted soils. As an added measure of protection, heavy plastic sheeting will be placed beneath the trucks to collect any spilled soil. Any spilled soil will be immediately removed to avoid the spreading of impacted soil on the truck tires. It is anticipated that no additional decontamination procedures will be necessary based on the above precautions and the limited number of trucks necessary for off-haul of the soils.

3.7.2 Worker Protection and Decontamination

Protective Tyvek suites, rubber boots and chemically resistant gloves will be required for personnel who could contact affected soils because some of the contaminate concentrations exceed worker safety levels. This clothing will need to be removed and properly disposed in the designated exit corridors leading to the support zone. The location and size of the decontamination corridors for personnel may change as Site conditions and operations dictate. Personnel will remove Tyvek suites and nitrile gloves and rinse their boots and wash their hands when exiting the work area for any reason. Disposable equipment intended for one-time use will not be decontaminated but will be bagged for appropriate disposal. Reusable equipment, such as shovels, can be rinsed over contaminated soil stockpiles.

3.8 Field Documentation

3.8.1 Field Oversight and Reporting

A MCI field engineer will be present on-Site on an as-needed basis during the chemically-affected soil excavation, perimeter dust monitoring and handling activities. This individual will monitor

the soil excavation work, collect confirmation soil samples, perform perimeter air monitoring and collect stockpile soil samples. As part of this process, a field log will be used to document Site activities and a scaled Site map will be used to document the removal areas and confirmation sampling locations.

3.8.2 Photographs

Photographs of Site activities will be taken periodically by MCI to further document the removal action implementation. The photographs will be made available for inspection by authorized personnel for the duration of the project and included in the Removal Action Completion Report.

3.9 Confirmation Soil Sampling

To document adequate removal of soil with the COCs concentrations that exceed the Site remedial goals, confirmation soil samples will be collected from the bottom and sidewalls in the excavation areas. The base confirmation samples will be collected at an approximate frequency of one sample for every approximately 250 square feet with a minimum of one bottom sample per excavation area. The sidewall confirmation samples will be collected at an approximate frequency of one sample for every approximately 40 lineal feet of excavation sidewall, with a minimum of one sample per sidewall. Duplicate samples will also be collected at a rate of one sample for every 20 samples for Quality Assurance/Quality Control.

3.9.1 Confirmation Soil Sample Locations and Depths

The confirmation sample locations will be randomly selected in the base and sidewalls of the excavations in accordance with the above-mentioned frequencies. The samples will generally be collected from the outer or upper 6 inches of soils present in the sidewall or base.

3.9.2 Soil Sampling Procedure

Soil samples will be obtained by manually scraping new, disposable, laboratory supplied 4-ounce glass jars or 9-ounce glass jars into freshly exposed soil in the bottom and the sidewalls of the excavations. After sample collection, the Teflon-lined lid will be securely fastened on the jar and the jar will be labeled with a unique sample identification number. New gloves will be worn by the sampling personnel and will be changed between sampling locations and discarded. The samples will then be placed in an insulated cooler chilled to 4 degrees +/- 2 degrees Celsius and hand delivered by MCI personnel to Torrent Laboratory in Milpitas or Pace Analytical personnel to be shipped via Fed-Ex to their facility. Both Torrent Laboratory and Pace Analytical are California-certified analytical laboratory.

It is anticipated that no sampling equipment will need to be reused, and therefore no decontamination of sampling equipment will be needed. Should hard soils be encountered and

cannot be scraped to collect a sample, as pick or trowel may have to be used. Such tools would be cleaned thoroughly between uses with liquinox and water followed by a distilled water rinse.

3.9.3 Laboratory Analyses

All soil analyses would be performed on an accelerated response time to attempt to reduce project delays. The analyses for metals will take up to 3 days to receive results because of soil digestion procedures. An additional 2 days would be needed to test stockpile soils for soluble components should that be necessary. The landfills may also require additional testing that is difficult to anticipate but could result in additional time.

3.9.4 Additional Excavation and Confirmation Sampling

If concentrations of the contaminants are detected exceeding their Site remedial goals additional excavation will be performed. In removal areas where chlordane is the COC, additional excavations will only be performed on the areas that exceed the 0.44 mg/kg. In removal areas where heptachlor epoxide is the COC, additional excavations will only be performed on the areas that exceed the 0.070 mg/kg. In removal areas where arsenic is the COC, additional excavations will only be performed in areas that exceed the maximum naturally-occurring concentration of 5.5 mg/kg.

If a base excavation sample exceeds the cleanup goal, an additional 1 foot of soil will be excavated from that area. Similarly, if a sidewall sample exceeds the cleanup remedial goals, the excavation will be extended an additional 2 feet into the sidewall along the length of the sidewall. This process will be repeated as necessary. Additional samples would be collected at the same locations after the additional removal is done.

4.0 IMPORT SOIL EVALUATION

Although soil import is not anticipated during the remediation activities for this Site, should it be necessary the following describes what is needed if import is required during the future development. To prevent the potential import of contaminated fill onto the Site, all possible sources of import fill must have adequate documentation so it can be verified that the soils are appropriate for the Site. Documentation should include detailed information on the previous land use of the fill source, any environmental site assessments performed and the findings, and the results of any testing performed. If no documentation is available, or the documentation is inadequate, samples of the potential fill material will be collected and chemically analyzed. The analyses selected will be based on the fill source and knowledge of the previous land use. The project environmental consultant MCI would perform this review of potential soil import sources. The lab analyses and sampling frequency for potential fill material will be in accordance with that outlined in the DTSC *Information Advisory on Clean Imported Fill Material*, dated October 2001,

included in Appendix F. If the import material is from an area within 10 miles of ultramafic rock, then the soil will also be tested for NOA using EPA Bulk TEM methods with a detection limit of 0.001% by weight or less.

5.0 REMEDIATION COMPLETION REPORT

A remediation completion report will be prepared after the remediation activities have been completed, and will include the following elements:

- Figures showing Site features and confirmation sample locations, extent of excavation and summary results;
- Tables summarizing the analytical results and comparison to applicable standards;
- Laboratory reports and chain of custody documentation;
- Documentation and testing results of import soils,
- Discussion of the Site excavation, stockpile, and activities; and,
- Waste disposal truck manifests.

6.0 LIMITATIONS

This Soil Management Plan (SMP) was prepared for the use of the Redwood City Unified School District in evaluating the proposed remedial action. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location. The chemical remediation goals and other data presented in this report can change over time and are applicable only to the time this SMP was prepared.

7.0 REFERENCES

Bradford, G.R., Chang, A.C., Page, A.L., Bakhtar, D., Frampton, J.A., Wright, H. March 1996, *Background Concentrations of Trace and Major Elements in California Soils.* Kearney Foundation of Soil Science

Cal/EPA, January 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties.*

Cal/EPA, September 12, 2006. *Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Results of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers.*

Cal/EPA, March 21, 2007. *Arsenic Strategies, Determination of Arsenic Remediation, Development of Arsenic Cleanup Goals for Proposed and Existing School Sites.*

Cal/EPA, April 30, 2008. *Interim Guidance for Sampling Agricultural Properties (Third Revision).*

Cal/EPA, September 2009. *Revised California Human Health Screening Levels for Lead.*

Cal/EPA, Human and Ecologic Risk Office (HERO), June 2018. *Human Health Risk Assessment (HHRA), Note Number: 3, DTSC-modified Screening Levels.*

California Air Resources Board, 2002, *Section 93105 Final Regulation Order, Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations*.

Department of Toxic Substances Control, September 2004. *Interim Guidance Naturally Occurring Asbestos at School Sites.*

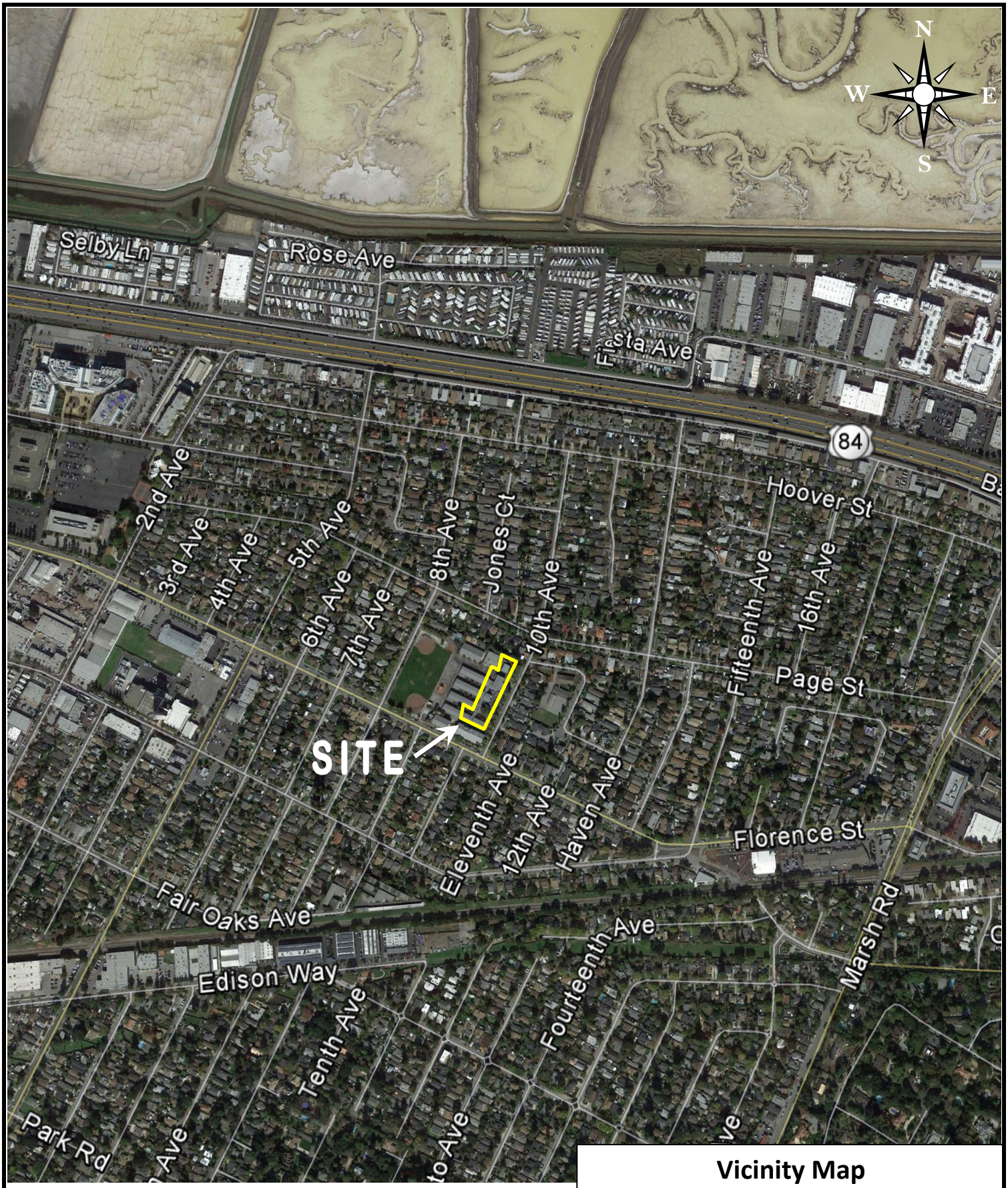
Duverge', D.J., December 2011. *Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region.* Master of Science Thesis, San Francisco State University.

McCloskey Consultants, Inc., June 30, 2017. *Phase I Environmental Site Assessment, Taft Community School, 903 10th Avenue, Redwood City, San Mateo County, CA 94063.*

McCloskey Consultants, Inc., April 19, 2018. *Preliminary Environmental Site Assessment Workplan, Taft Community School Expansion, Redwood City.*

United States Environmental Protection Agency Regional Screening Levels, May 2018.

FIGURES

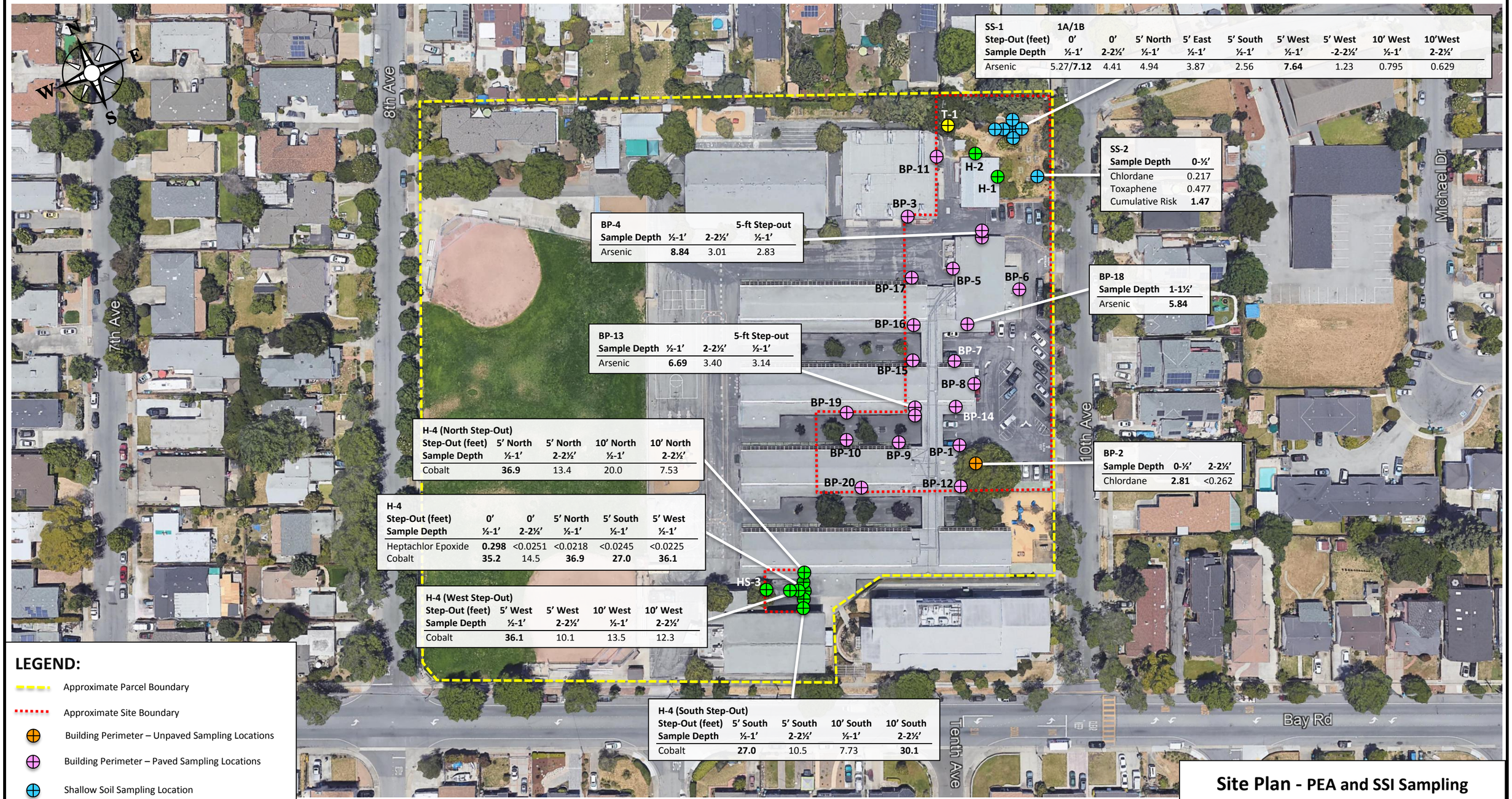


Vicinity Map

Taft Community School
903 10th Avenue
Redwood City, California

FIGURE 1

McCloskey Consultants



SS-1	1A/1B								
Step-Out (feet)	0'	0'	5' North	5' East	5' South	5' West	5' West	10' West	10'West
Sample Depth	½-1'	2-2½'	½-1'	½-1'	½-1'	½-1'	-2-2½'	½-1'	2-2½'
Arsenic	5.27/**7.12**	4.41	4.94	3.87	2.56	**7.64**	1.23	0.795	0.629

SS-2	
Sample Depth	0-½'
Chlordane	0.217
Toxaphene	0.477
Cumulative Risk	**1.47**

BP-4		5-ft Step-out	
Sample Depth	½-1'	2-2½'	½-1'
Arsenic	**8.84**	3.01	2.83

BP-18	
Sample Depth	1-1½'
Arsenic	**5.84**

BP-13		5-ft Step-out	
Sample Depth	½-1'	2-2½'	½-1'
Arsenic	**6.69**	3.40	3.14

BP-2		
Sample Depth	0-½'	2-2½'
Chlordane	**2.81**	<0.262

H-4 (North Step-Out)				
Step-Out (feet)	5' North	5' North	10' North	10' North
Sample Depth	½-1'	2-2½'	½-1'	2-2½'
Cobalt	**36.9**	13.4	20.0	7.53

H-4					
Step-Out (feet)	0'	0'	5' North	5' South	5' West
Sample Depth	½-1'	2-2½'	½-1'	½-1'	½-1'
Heptachlor Epoxide	**0.298**	<0.0251	<0.0218	<0.0245	<0.0225
Cobalt	**35.2**	14.5	**36.9**	**27.0**	**36.1**

H-4 (West Step-Out)				
Step-Out (feet)	5' West	5' West	10' West	10' West
Sample Depth	½-1'	2-2½'	½-1'	2-2½'
Cobalt	**36.1**	10.1	13.5	12.3

H-4 (South Step-Out)				
Step-Out (feet)	5' South	5' South	10' South	10' South
Sample Depth	½-1'	2-2½'	½-1'	2-2½'
Cobalt	**27.0**	10.5	7.73	**30.1**

LEGEND:

- Approximate Parcel Boundary
- Approximate Site Boundary
- Building Perimeter – Unpaved Sampling Locations
- Building Perimeter – Paved Sampling Locations
- Shallow Soil Sampling Location
- Historical Sampling Location
- Transformer Sampling Location

Approximate Graphical Scale (Ft.)

0 100 200

Notes:

Bold – Indicates Exceedance of Regulatory Thresholds or Naturally-Occurring Background Concentrations

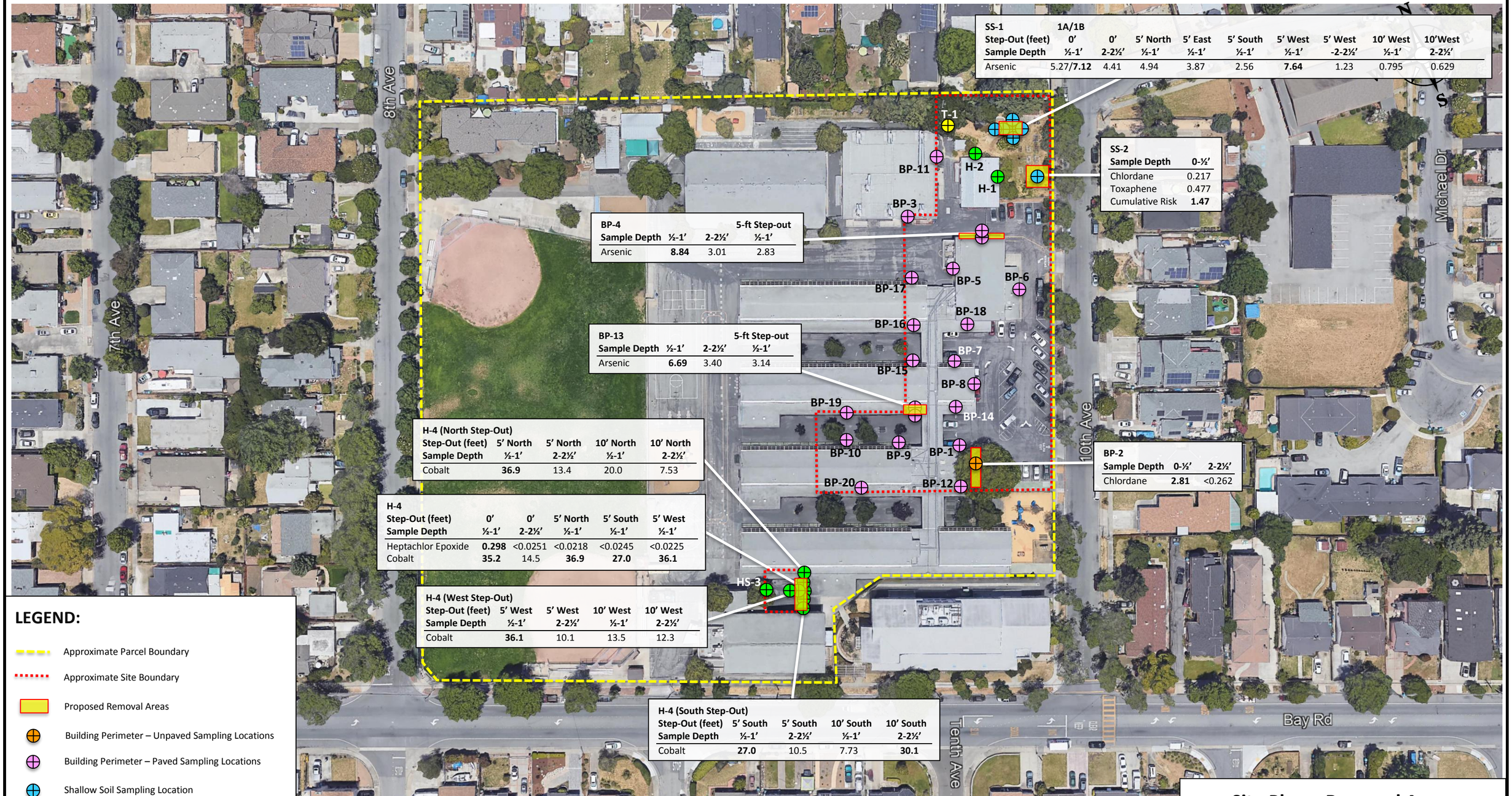
All Concentrations in milligram per kilogram (mg/Kg)

Site Plan - PEA and SSI Sampling Locations and Select Results

Taft Community School Expansion
903 10th Avenue
Redwood City, California

FIGURE 2

McCloskey Consultants



SS-1	1A/1B								
Step-Out (feet)	0'	0'	5' North	5' East	5' South	5' West	5' West	10' West	10'West
Sample Depth	½-1'	2-2½'	½-1'	½-1'	½-1'	½-1'	-2-2½'	½-1'	2-2½'
Arsenic	5.27/**7.12**	4.41	4.94	3.87	2.56	**7.64**	1.23	0.795	0.629

SS-2	
Sample Depth	0-½'
Chlordane	0.217
Toxaphene	0.477
Cumulative Risk	**1.47**

BP-4		5-ft Step-out	
Sample Depth	½-1'	2-2½'	½-1'
Arsenic	**8.84**	3.01	2.83

BP-13		5-ft Step-out	
Sample Depth	½-1'	2-2½'	½-1'
Arsenic	**6.69**	3.40	3.14

BP-2		
Sample Depth	0-½'	2-2½'
Chlordane	**2.81**	<0.262

H-4 (North Step-Out)				
Step-Out (feet)	5' North	5' North	10' North	10' North
Sample Depth	½-1'	2-2½'	½-1'	2-2½'
Cobalt	**36.9**	13.4	20.0	7.53

H-4					
Step-Out (feet)	0'	0'	5' North	5' South	5' West
Sample Depth	½-1'	2-2½'	½-1'	½-1'	½-1'
Heptachlor Epoxide	**0.298**	<0.0251	<0.0218	<0.0245	<0.0225
Cobalt	**35.2**	14.5	**36.9**	**27.0**	**36.1**

H-4 (West Step-Out)				
Step-Out (feet)	5' West	5' West	10' West	10' West
Sample Depth	½-1'	2-2½'	½-1'	2-2½'
Cobalt	**36.1**	10.1	13.5	12.3

H-4 (South Step-Out)				
Step-Out (feet)	5' South	5' South	10' South	10' South
Sample Depth	½-1'	2-2½'	½-1'	2-2½'
Cobalt	**27.0**	10.5	7.73	**30.1**

LEGEND:

- Approximate Parcel Boundary
- Approximate Site Boundary
- Proposed Removal Areas
- Building Perimeter – Unpaved Sampling Locations
- Building Perimeter – Paved Sampling Locations
- Shallow Soil Sampling Location
- Historical Sampling Location
- Transformer Sampling Location

Approximate Graphical Scale (Ft.)

0 100 200

Notes:

Bold – Indicates Exceedance of Regulatory Thresholds or Naturally-Occurring Background Concentrations

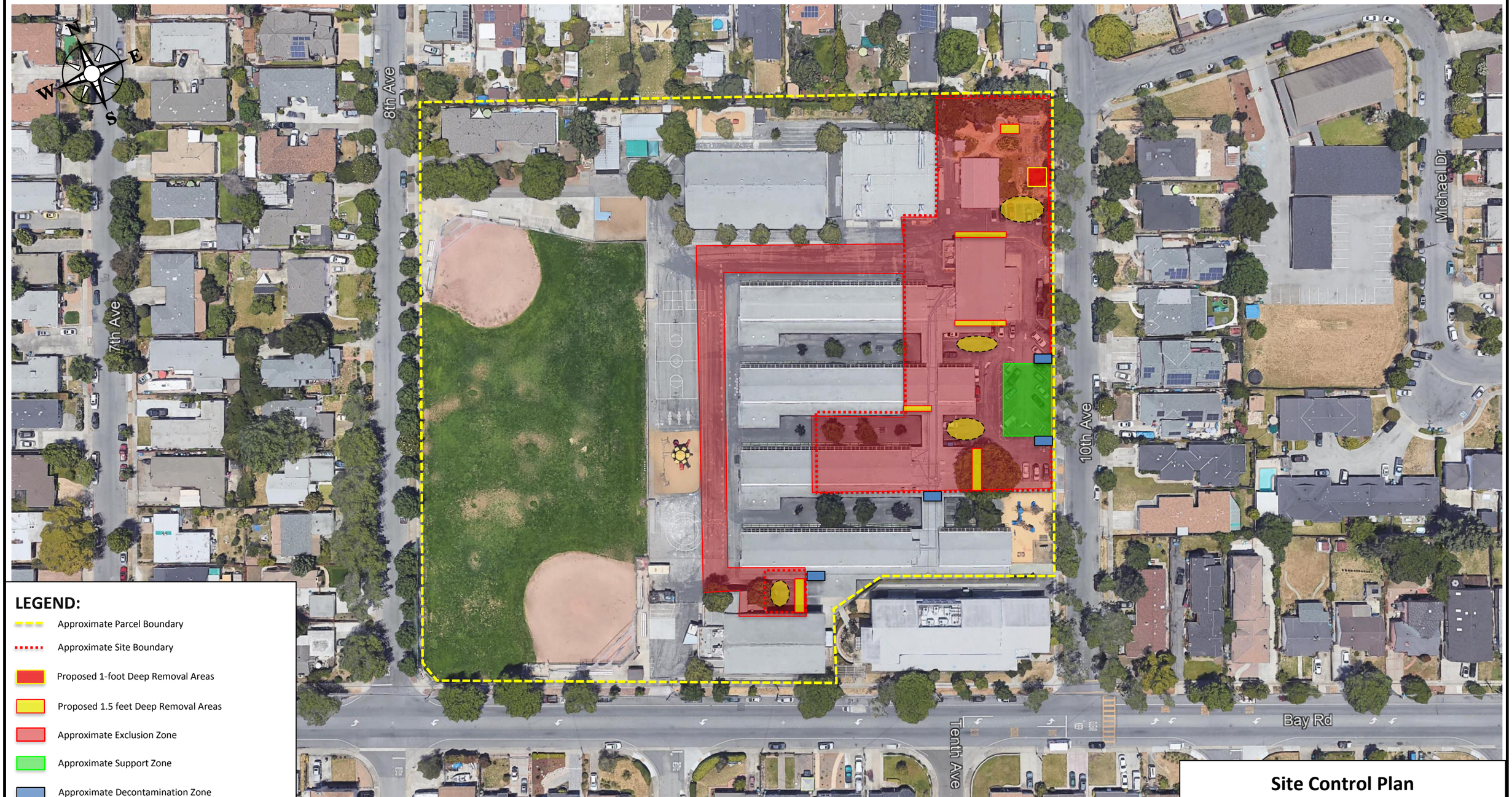
All Concentrations in milligram per kilogram (mg/Kg)

Site Plan – Removal Areas

Taft Community School Expansion
903 10th Avenue
Redwood City, California

FIGURE 3

McCloskey Consultants



LEGEND:

- Approximate Parcel Boundary
- Approximate Site Boundary
- Proposed 1-foot Deep Removal Areas
- Proposed 1.5 feet Deep Removal Areas
- Approximate Exclusion Zone
- Approximate Support Zone
- Approximate Decontamination Zone
- Approximate Location of Temporary Stockpiles

Approximate Graphical Scale (Ft.)

0 100 200

Site Control Plan

Soil Management Plan

Taft Community School Expansion
903 10th Avenue
Redwood City, California

FIGURE 4

McCloskey Consultants

Appendix A

PEA and SSI Summary Results Tables & Laboratory Analytical Results

Table 1. Summary of Metals Detected in Soil Samples
Preliminary Environmental Assessment and SSI Sampling Results
Taft Community School
Redwood City, California

Location	Sample ID	Sample Depth (feet bgs)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Cobalt	Copper	Lead	Mercury	Molyb-denum	Nickel	Selen-ium	Silver	Thallium	Vanadium	Zinc
(Concentrations in milligrams per kilogram [mg/Kg])																				
Building Perimeter	BP-1	1' - 1.5'	5/29/18	--	<2.21	--	--	--	--	--	--	**13.3**	--	--	--	--	--	--	--	--
	BP-2A	0' - 0.5'	5/25/18	--	**3.26**	--	--	--	--	--	--	**41.4**	--	--	--	--	--	--	--	--
	BP-2B (Duplicate)	0' - 0.5'	5/25/18	--	**4.51**	--	--	--	--	--	--	**63.7**	--	--	--	--	--	--	--	--
	BP-3	1' - 1.5'	5/29/18	<2.51	**4.68**	**286**	**1.11**	**0.139J**	**79.5**	**16.2**	**38.5**	**11.6**	**0.0371**	<0.628	**70.6**	<2.51	<1.26	<2.51	**88.2**	**87.1**
	BP-4	1.5' - 2'	5/29/18	--	**8.84**	--	--	--	--	--	--	**11.8**	--	--	--	--	--	--	--	--
	BP-4	2' - 2.5'	9/8/18	--	**3.01**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BP-4 @ 5'S.O.	1' - 1.5'	9/8/18	--	**2.83**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BP-6A	1.5' - 2'	5/29/18	--	**4.40**	--	--	--	--	--	--	**8.71**	--	--	--	--	--	--	--	--
	BP-6B (Duplicate)	1.5' - 2'	5/29/18	--	**4.93**	--	--	--	--	--	--	**11.8**	--	--	--	--	--	--	--	--
	BP-7	1' - 1.5'	5/29/18	--	**5.12**	--	--	--	--	--	--	**8.88**	--	--	--	--	--	--	--	--
	BP-8A	1' - 1.5'	5/29/18	<2.63	**3.83**	**97.8**	**0.262J**	<0.658	**37.4**	**7.11**	**24.3**	**5.93**	**0.0937**	**0.592J**	**36.3**	<2.63	<1.32	<2.63	**39.3**	**35.6**
	BP-8B (Duplicate)	1' - 1.5'	5/29/18	<2.47	**4.85**	**99.6**	**0.325**	<0.617	**46.4**	**7.57**	**25.3**	**4.73**	**0.113**	**0.675**	**43.3**	<2.47	<1.23	<2.47	**42**	**37**
	BP-9	0.5' - 1'	5/29/18	--	<2.34	--	--	--	--	--	--	<0.585	--	--	--	--	--	--	--	--
	BP-10	0.5' - 1'	5/29/18	--	<2.57	--	--	--	--	--	--	<0.643	--	--	--	--	--	--	--	--
	BP-11	1' - 1.5'	5/29/18	--	**5.46**	--	--	--	--	--	--	**23.9**	--	--	--	--	--	--	--	--
	BP-12	1' - 1.5'	5/29/18	<2.18	**0.991J**	**45.9**	**0.0878J**	**0.368J**	**238**	**37.1**	**64.9**	<0.546	**0.104**	<0.546	**199**	<2.18	<1.09	<2.18	**114**	**42.4**
	BP-13	1' - 1.5'	5/29/18	--	**6.69**	--	--	--	--	--	--	**3.87**	--	--	--	--	--	--	--	--
	BP-13	2' - 2.5'	9/8/18	--	**3.40**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	BP-13 @ 5'S.O.	1' - 1.5'	9/8/18	--	**3.14**															
	BP-14	1' - 1.5'	5/29/18	--	**3.86**	--	--	--	--	--	--	**5.23**	--	--	--	--	--	--	--	--
	BP-15	0.5' - 1'	5/29/18	--	**2.85**	--	--	--	--	--	--	**3.82**	--	--	--	--	--	--	--	--
	BP-16	1' - 1.5'	5/29/18	--	**1.13J**	--	--	--	--	--	--	**1.91**	--	--	--	--	--	--	--	--
	BP-17	1' - 1.5'	5/29/18	--	<2.17	--	--	--	--	--	--	<0.543	--	--	--	--	--	--	--	--
	BP-18	1' - 1.5'	5/29/18	--	**5.86**	--	--	--	--	--	--	**11.6**	--	--	--	--	--	--	--	--
	BP-19	1' - 1.5'	5/29/18	<2.37	**1.07J**	**245**	**0.293**	<0.592	**12.5**	**2.55**	**38.1**	**5.00**	**0.0177**	**0.539**	**8.13**	<2.37	<1.18	<2.37	**26.8**	**17.6**
	BP-20	1' - 1.5'	5/29/18	--	<2.56	--	--	--	--	--	--	<0.640	--	--	--	--	--	--	--	--
USEPA RSL				**31**	**0.68**	**15,000**	**160**	**71**	**120,000**	**23**	**3,100**	**400**	**11**	**390**	**1,500**	**390**	**390**	**0.78**	**390**	**23,000**
HHRA HERO Note 3				**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**80**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Notes:
CAM 17 metals, arsenic, and lead analyzed using U.S. EPA Method 6010B; EPA Method 7471A (mercury).

bgs	Below ground surface.	USEPA RSL	United States Environmental Protection Agency Regional Screening Levels for Residential Uses (May 2018).
<RDL	Indicates compound was not detected at or above stated laboratory reported detection limits.	HERO HHRA Note 3	DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3, DTSC-Modified Screening Levels, August 2017.
--	Indicates sample not analyzed.		Indicates concentration exceeds one or more regulatory screening level.
NA	Not applicable.	J	Estimated concentration. See laboratory analytical reports for other lab qualifiers.

Table 1. Summary of Metals Detected in Soil Samples
Preliminary Environmental Assessment and SSI Sampling Results
Taft Community School
Redwood City, California

Location	Sample ID	Sample Depth (feet bgs)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Total Chromium	Cobalt	Copper	Lead	Mercury	Molyb-denum	Nickel	Selen-ium	Silver	Thallium	Vanadium	Zinc
(Concentrations in milligrams per kilogram [mg/Kg])																				
Garden/ Outdoor Classroom	SS-1	0' - 0.5'	5/25/18	--	**1.71J**	--	--	--	--	--	--	**2.76**	--	--	--	--	--	--	--	--
	SS-1A	1' - 1.5'	5/25/18	--	**5.27**	--	--	--	--	--	--	**32.2**	--	--	--	--	--	--	--	--
	SS-1B (Duplicate)	1' - 1.5'	5/25/18	--	**7.12**	--	--	--	--	--	--	**25.2**	--	--	--	--	--	--	--	--
	SS-1	2' - 2.5'	9/8/18	--	**4.41**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-1N @ 5' S.O.	1' - 1.5'	9/8/18	--	**4.94**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-1E @ 5' S.O.	1' - 1.5'	9/8/18	--	**3.87**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-1S @ 5' S.O.	1' - 1.5'	9/8/18	--	**2.56**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-1W @ 5' S.O.	1' - 1.5'	9/8/18	--	**7.64**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-1W @ 5' S.O.	2' - 2.5'	9/8/18	--	**1.23**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-1W @ 10' S.O.	1' - 1.5'	9/8/18	--	**0.795**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-1W @ 10' S.O.	2' - 2.5'	9/8/18	--	**0.629**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SS-2	0' - 0.5'	5/25/18	--	**5.19**	--	--	--	--	--	--	**22.6**	--	--	--	--	--	--	--	--
Historical Structure	H-1	0' - 0.5'	5/25/18	--	**3.27**	--	--	--	--	--	--	**53.4**	--	--	--	--	--	--	--	--
	H-2	0' - 0.5'	5/25/18	--	**2.37**	--	--	--	--	--	--	**39.5**	--	--	--	--	--	--	--	--
	H-3	1' - 1.5'	5/29/18	--	<2.20	--	--	--	--	--	--	**1.13**	--	--	--	--	--	--	--	--
	H-4	1' - 1.5'	5/29/18	<2.34	<2.34	**72.6**	**0.387**	<0.585	**151**	**35.2**	**58.1**	**2.32**	**0.0165J**	<0.585	**94.9**	<2.34	<1.17	<2.34	**159**	**72**
	HS-4	2' - 2.5'	9/8/18	--	--	--	--	--	--	**14.5**	--	--	--	--	--	--	--	--	--	--
	HS-4N @ 5'S.O.	0.5' - 1'	9/8/18	--	--	--	--	--	--	**36.9**	--	--	--	--	--	--	--	--	--	--
	HS-4N @ 5'S.O.	2' - 2.5'	9/8/18	--	--	--	--	--	--	**13.4**	--	--	--	--	--	--	--	--	--	--
	HS-4N @ 10'S.O.	0.5' - 1'	9/8/18	--	--	--	--	--	--	**20.0**	--	--	--	--	--	--	--	--	--	--
	HS-4N @ 10'S.O.	2' - 2.5'	9/8/18	--	--	--	--	--	--	**7.53**	--	--	--	--	--	--	--	--	--	--
	HS-4W @ 5'S.O.	0.5' - 1'	9/8/18	--	--	--	--	--	--	**36.1**	--	--	--	--	--	--	--	--	--	--
	HS-4W @ 5'S.O.	2' - 2.5'	9/8/18	--	--	--	--	--	--	**10.1**	--	--	--	--	--	--	--	--	--	--
	HS-4W @ 10'S.O.	0.5' - 1'	9/8/18	--	--	--	--	--	--	**13.5**	--	--	--	--	--	--	--	--	--	--
	HS-4W @ 10'S.O.	2' - 2.5'	9/8/18	--	--	--	--	--	--	**12.3**	--	--	--	--	--	--	--	--	--	--
	HS-4S @ 5'S.O.	0.5' - 1'	9/8/18	--	--	--	--	--	--	**27.0**	--	--	--	--	--	--	--	--	--	--
	HS-4S @ 5'S.O.	2' - 2.5'	9/8/18	--	--	--	--	--	--	**10.5**	--	--	--	--	--	--	--	--	--	--
	HS-4S @ 10'S.O.	0.5' - 1'	9/8/18	--	--	--	--	--	--	**7.73**	--	--	--	--	--	--	--	--	--	--
	HS-4S @ 10'S.O.	2' - 2.5'	9/8/18	--	--	--	--	--	--	**30.1**	--	--	--	--	--	--	--	--	--	--
USEPA RSL				**31**	**0.68**	**15,000**	**160**	**71**	**120,000**	**23**	**3,100**	**400**	**11**	**390**	**1,500**	**390**	**390**	**0.78**	**390**	**23,000**
HHRA HERO Note 3				**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**80**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Notes:
CAM 17 metals, arsenic, and lead analyzed using U.S. EPA Method 6010B; EPA Method 7471A (mercury).

bgs	Below ground surface.	USEPA RSL	United States Environmental Protection Agency Regional Screening Levels for Residential Uses (May 2018).
<RDL	Indicates compound was not detected at or above stated laboratory reported detection limits.	HERO HHRA Note 3	DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3, DTSC-Modified Screening Levels, August 2017.
--	Indicates sample not analyzed.		Indicates concentration exceeds one or more regulatory screening level.
NA	Not applicable.	J	Estimated concentration. See laboratory analytical reports for other lab qualifiers.

Table 2. Summary of Polychlorinated Biphenyls Detected in Soil Samples
Preliminary Environmental Assessment and SSI Sampling Results
Taft Community School
Redwood City, California

Location	Sample ID	Sample Depth (feet bgs)	Date Sampled	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260
(Concentrations in milligrams per kilogram [mg/Kg])										
Building Perimeter	BP-1	1' - 1.5'	5/29/18	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188
	BP-2A	0' - 0.5'	5/25/18	<0.0228	<0.0228	<0.0228	<0.0228	<0.0228	<0.0228	<0.0228
	BP-2B (Duplicate)	0' - 0.5'	5/25/18	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186
	BP-3	1' - 1.5'	5/29/18	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214
	BP-4	1.5' - 2'	5/29/18	<0.0226	<0.0226	<0.0226	<0.0226	<0.0226	<0.0226	<0.0226
	BP-6A	1.5' - 2'	5/29/18	<0.0235	<0.0235	<0.0235	<0.0235	<0.0235	<0.0235	<0.0235
	BP-6B (Duplicate)	1.5' - 2'	5/29/18	<0.0236	<0.0236	<0.0236	<0.0236	<0.0236	<0.0236	<0.0236
	BP-7	1' - 1.5'	5/29/18	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221
	BP-8A	1' - 1.5'	5/29/18	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224
	BP-8B (Duplicate)	1' - 1.5'	5/29/18	<0.0210	<0.0210	<0.0210	<0.0210	<0.0210	<0.0210	<0.0210
	BP-9	0.5' - 1'	5/29/18	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199
	BP-10	0.5' - 1'	5/29/18	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219
	BP-11	1' - 1.5'	5/29/18	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234
	BP-12	1' - 1.5'	5/29/18	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186
	BP-13	1' - 1.5'	5/29/18	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214	<0.0214
	BP-14	1'	5/29/18	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217
	BP-15	0.5' - 1'	5/29/18	<0.0211	<0.0211	<0.0211	<0.0211	<0.0211	<0.0211	<0.0211
	BP-16	1' - 1.5'	5/29/18	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186	<0.0186
	BP-17	1' - 1.5'	5/29/18	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185	<0.0185
	BP-18	1' - 1.5'	5/29/18	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217
	BP-19	1' - 1.5'	5/29/18	<0.0201	<0.0201	<0.0201	<0.0201	<0.0201	<0.0201	<0.0201
	BP-20	1' - 1.5'	5/29/18	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217
Historical Structure	H-1	0' - 0.5'	5/25/18	<0.0184	<0.0184	<0.0184	<0.0184	<0.0184	<0.0184	<0.0184
	H-2	0' - 0.5'	5/25/18	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187
	H-3	1' - 1.5'	5/29/18	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187	<0.0187
	H-4	1' - 1.5'	5/29/18	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199	<0.0199
Transformer	T-1	0.25' - 0.75'	5/25/18	<0.0207	<0.0207	<0.0207	<0.0207	<0.0207	<0.0207	<0.0207
USEPA RSL				4.1	0.2	0.17	0.23	0.23	0.24	0.24

Notes:
Polychlorinated biphenyls analyzed using U.S. EPA Method 8082.

bgs	Below ground surface.
<RDL	Indicates chemical not detected at or above stated laboratory reported detection limits.
--	Indicates sample not analyzed.
USEPA RSL	United States Environmental Protection Agency Regional Screening Levels for Residential Uses (May 2018).
J	Estimated concentration. See laboratory analytical reports for other lab qualifiers.

Table 3. Summary of Organochlorine Pesticides Detected in Soil Samples
Preliminary Environmental Assessment and SSI Sampling Results
Taft Community School
Redwood City, California

Location	Sample ID	Sample Depth (feet bgs)	Date Sampled	Aldrin	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC	4,4-DDD	4,4-DDE	4,4-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Hexachloro benzene	Methoxyclor	Chlordane	Toxaphene
(Concentrations in milligrams per kilogram [mg/Kg])																								
Building Perimeter	BP-1	1' - 1.5'	5/29/18	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	**0.00307J**	<0.00221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	<0.0221	**0.127J**	<0.443
	BP-1	2.5' - 3'	5/29/18	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.00265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.265	<0.530
	BP-2	2' - 2.5'	5/29/18	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.00262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.262	<0.523
	BP-2A	0' - 0.5'	5/25/18	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	**0.0373**	<0.00268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	**0.00422J**	<0.0268	**0.00169J**	<0.0268	**2.81**	<0.536
	BP-2B (Duplicate)	0' - 0.5'	5/25/18	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	**0.0536**	**0.0448**	<0.00219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	**0.00286J**	**0.0319**	**0.00146J**	<0.0219	<0.219	<0.437
	BP-3	1' - 1.5'	5/29/18	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.00251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.251	<0.503
	BP-3	2' - 2.5'	5/29/18	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.00256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.256	<0.511
	BP-4	1.5' - 2'	5/29/18	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.00265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.0265	<0.265	<0.531
	BP-4	2' - 2.5'	5/29/18	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.00259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.0259	<0.259	<0.519
	BP-5	2' - 2.5'	5/29/18	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.00275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.275	<0.549
	BP-6	2' - 2.5'	5/29/18	<0.0253	<0.0253	<0.0253	<0.0253	<0.0253	<0.0253	<0.0253	<0.0253	<0.00253	<0.0253	<0.0253	<0.0253	<0.0253	<0.0253	<0.0253	<0.0253	<0.0253	<0.0253	<0.0253	<0.253	<0.506
	BP-6A	1.5' - 2'	5/29/18	<0.0276	<0.0276	<0.0276	<0.0276	<0.0276	<0.0276	<0.0276	<0.0276	<0.00276	<0.0276	<0.0276	<0.0276	**0.000437J**	<0.0276	<0.0276	<0.0276	<0.0276	<0.0276	<0.0276	<0.276	<0.553
	BP-6B (Duplicate)	1.5' - 2'	5/29/18	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.00278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.278	<0.556
	BP-7	1' - 1.5'	5/29/18	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.00260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.0260	<0.260	<0.520
	BP-7	2.5' - 3'	5/29/18	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.00250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.250	<0.501
	BP-8	2.5' - 3'	5/29/18	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.00266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.266	<0.533
	BP-8A	1' - 1.5'	5/29/18	<0.0263	<0.0263	<0.0263	<0.0263	<0.0263	<0.0263	**0.000998J**	**0.00117J**	**0.000224J**	<0.0263	<0.0263	<0.0263	**0.000569J**	<0.0263	<0.0263	**0.00036J**	<0.0263	<0.0263	<0.0263	<0.263	<0.526
	BP-8B (Duplicate)	1' - 1.5'	5/29/18	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	**0.00131J**	**0.0036J**	<0.00247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	<0.0247	**0.149J**	<0.494
	BP-9	0.5' - 1'	5/29/18	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.00234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	**0.00047J**	<0.0234	<0.0234	<0.234	<0.468
	BP-9	2' - 2.5'	5/29/18	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.00274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.0274	<0.274	<0.549
	BP-10	0.5' - 1'	5/29/18	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.00257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.0257	<0.257	<0.514
	BP-10	2' - 2.5'	5/29/18	<0.0325	<0.0325	<0.0325	<0.0325	<0.0325	<0.0325	<0.0325	<0.0325	<0.00325	<0.0325	<0.0325	<0.0325	<0.0325	<0.0325	<0.0325	<0.0325	<0.0325	<0.0325	<0.0325	<0.325	<0.650
	BP-11	1' - 1.5'	5/29/18	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.00275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.275	<0.551
	BP-11	2' - 2.5'	5/29/18	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.00279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	**0.00189J**	<0.0279	<0.279	<0.557
	BP-12	1' - 1.5'	5/29/18	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.00218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.218	<0.437
	BP-12	2.5' - 3'	5/29/18	<0.0241	<0.0241	<0.0241	<0.0241	<0.0241	<0.0241	<0.0241	<0.0241	<0.00241	<0.0241	<0.0241	<0.0241	<0.0241	<0.0241	<0.0241	<0.0241	<0.0241	<0.0241	<0.0241	<0.241	<0.482
	BP-13	1' - 1.5'	5/29/18	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.00252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.252	<0.505
	BP-13	3' - 3.5'	5/29/18	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.00255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.255	<0.511
	BP-14	1'	5/29/18	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.00255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.0255	<0.255	<0.510
	BP-14	3' - 3.5'	5/29/18	<0.0269	<0.0269	<0.0269	<0.0269	<0.0269	<0.0269	<0.0269	<0.0269	<0.00269	<0.0269	<0.0269	<0.0269	<0.0269	<0.0269	<0.0269	<0.0269	<0.0269	<0.0269	<0.0269	<0.269	<0.537
	BP-15	0.5' - 1'	5/29/18	<0.0248	<0.0248	<0.0248	<0.0248	<0.0248	<0.0248	<0.0248	**0.00297J**	<0.00248	<0.0248	<0.0248	<0.0248	<0.0248	<0.0248	<0.0248	**0.00116J**	<0.0248	<0.0248	<0.0248	<0.248	<0.495
	BP-15	2.5' - 3'	5/29/18	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.00268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.0268	<0.268	<0.536
	BP-16	1' - 1.5'	5/29/18	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.00219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.0219	<0.219	<0.437
	BP-16	2.5' - 3'	5/29/18	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.00278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.0278	<0.278	<0.556
	BP-17	1' - 1.5'	5/29/18	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.00217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.0217	<0.217	<0.434
	BP-17	2' - 2.5'	5/29/18	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.00262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.0262	<0.262	<0.525
	BP-18	1' - 1.5'	5/29/18	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.00256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.256	<0.511
	BP-18	2' - 2.5'	5/29/18	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.00251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.0251	<0.251	<0.502
	BP-19	1' - 1.5'	5/29/18	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.00237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.0237	<0.237	<0.474
	BP-19A	2' - 2.5'	5/29/18	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.00254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.0254	<0.254	<0.509
	BP-19B (Duplicate)	2' - 2.5'	5/29/18	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.00275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.0275	<0.275	<0.550
	BP-20	1' - 1.5'	5/29/18	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.00256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.256	<0.512
	BP-20	2' - 2.5'	5/29/18	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.00279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.0279	<0.279	<0.559
USEPA RSL				**0.039**	**0.086**	**0.3**	**NE**	**0.57**	**1.9**	**2.0**	**1.9**	**0.034**	**470**	**470**	**NE**	**19**	**NE**	**NE**	**0.13**	**0.07**	**0.21**	**320**	**1.7**	**0.49**
HERO HHRA Note 3				**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.44**	**NA**

Notes:
Organochlorine pesticides analyzed using U.S. EPA Method 8081.

bgs	Below ground surface.
<RDL	Indicates chemical not detected at or above stated laboratory reported detection limits.
--	Indicates sample not analyzed.
NE	Not established.
NA	Not applicable.
USEPA RSL	United States Environmental Protection Agency Regional Screening Levels for Residential Uses (May 2018).
HERO HHRA Note 3	DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3, DTSC-Modified Screening Levels, August 2017.
	Indicates concentration exceeds one or more regulatory screening level.
J	Estimated concentration. See laboratory analytical reports for other lab qualifiers.

Table 3. Summary of Organochlorine Pesticides Detected in Soil Samples
Preliminary Environmental Assessment and SSI Sampling Results
Taft Community School
Redwood City, California

Location	Sample ID	Sample Depth (feet bgs)	Date Sampled	Aldrin	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC	4,4-DDD	4,4-DDE	4,4-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Hexachloro benzene	Methoxyclor	Chlordane	Toxaphene
(Concentrations in milligrams per kilogram [mg/Kg])																								
Garden/ Outdoor Classroom	SS-1	0' - 0.5'	5/25/18	<0.0208	<0.0208	<0.0208	<0.0208	<0.0208	<0.0208	<0.0208	<0.0208	<0.00208	<0.0208	<0.0208	<0.0208	<0.0208	<0.0208	<0.0208	**0.000115J**	<0.0208	<0.0208	<0.0208	<0.208	<0.416
	SS-1A	1' - 1.5'	5/25/18	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	**0.00175J**	<0.00291	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	<0.0291	**0.000486J**	<0.0291	<0.291	<0.582
	SS-1B (Duplicate)	1' - 1.5'	5/25/18	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	**0.000984J**	**0.00365J**	<0.00256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	**0.114J**	<0.512
	SS-2	0' - 0.5'	5/25/18	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	**0.00189J**	**0.00635J**	<0.00224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	**0.217J**	**0.477**
Historical Structure	H-1	0' - 0.5'	5/25/18	**0.00669J**	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	**0.00562J**	**0.00395J**	**0.00442**	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<0.216	<0.433
	H-1	2' - 2.5'	5/29/18	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	**0.000227J**	**0.000616J**	**0.000787J**	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.0256	<0.256	<0.512
	H-2	0' - 0.5'	5/25/18	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	**0.00151J**	**0.00444J**	**0.0036J**	**0.00454**	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.220	<0.440
	H-2	2' - 2.5'	5/29/18	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	**0.000337J**	**0.000885J**	**0.00065J**	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.0266	<0.266	<0.531
	H-3	1' - 1.5'	5/29/18	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.00220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.0220	<0.220	<0.441
	H-3	2' - 2.5'	5/29/18	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.00252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.0252	<0.252	<0.505
	H-4	1' - 1.5'	5/29/18	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.00234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	<0.0234	**0.298**	<0.0234	<0.0234	<0.234	<0.468
	H-4	2' - 2.5'	5/29/18	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.00271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.0271	<0.271	<0.543
	HS-4N @ 5'S.O.	0.5' - 1'	9/8/18	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.00218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.0218	<0.218	<0.437
	HS-4W @ 5'S.O.	0.5' - 1'	9/8/18	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.00225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.0225	<0.225	<0.450
	HS-4S @ 5'S.O.	0.5' - 1'	9/8/18	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.00245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.0245	<0.245	<0.490
USEPA RSL				**0.039**	**0.086**	**0.3**	**NE**	**0.57**	**1.9**	**2.0**	**1.9**	**0.034**	**470**	**470**	**NE**	**19**	**NE**	**NE**	**0.13**	**0.07**	**0.21**	**320**	**1.7**	**0.49**
HERO HHRA Note 3				**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**0.44**	**NA**

Notes:
Organochlorine pesticides analyzed using U.S. EPA Method 8081.

bgs	Below ground surface.	NA	Not applicable.
<RDL	Indicates chemical not detected at or above stated laboratory reported detection limits.	USEPA RSL	United States Environmental Protection Agency Regional Screening Levels for Residential Uses (May 2018).
--	Indicates sample not analyzed.	HERO HHRA Note 3	DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3, DTSC-Modified Screening Levels, August 2017.
NE	Not established.		Indicates concentration exceeds one or more regulatory screening level.
		J	Estimated concentration. See laboratory analytical reports for other lab qualifiers.

Table 4. Summary of Polycyclic Aromatic Hydrocarbons Detected in Soil Samples
Preliminary Environmental Assessment and SSI Sampling Results
Taft Community School
Redwood City, California

Location	Sample ID	Sample Depth (feet bgs)	Date Sampled	Anthra-cene	Acenaph-thene	Acenaph-thylene	Benzo(a) anthracene	Benzo(a)-pyrene	Benzo(b)-fluor-anthene	Benzo (g,h,i)-perylene	Benzo(k)-fluor-anthene	Chrysene	Dibenzo (a,h)-anthra-cene	Fluor-anthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naph-thalene	Phenan-threne	Pyrene	1-Methyl-naphth-alene	2-Methyl-naphth-alene	2-Chloro-naphth-alene
(Concentrations in milligrams per kilogram [mg/Kg])																						
Building Perimeter	BP-3	1' - 1.5'	5/29/18	<0.00754	<0.00754	<0.00754	<0.00754	<0.00754	<0.00754	**0.00209J**	<0.00754	<0.00754	<0.00754	<0.00754	<0.00754	<0.00754	**0.00328J**	**0.00102J**	<0.00754	<0.0251	**0.00316J**	<0.0251
	BP-8A	1' - 1.5'	5/29/18	<0.00789	<0.00789	<0.00789	**0.0013J**	**0.00136J**	**0.00198J**	**0.0034J**	**0.000994J**	**0.00102J**	<0.00789	**0.00128J**	<0.00789	<0.00789	<0.0263	**0.000936J**	**0.00155J**	<0.0263	<0.0263	<0.0263
	BP-8B (Duplicate)	1' - 1.5'	5/29/18	<0.00741	<0.00741	<0.00741	**0.00186J**	**0.0021J**	**0.00302J**	**0.00443J**	**0.00163J**	**0.00148J**	<0.00741	**0.00315J**	<0.00741	**0.00101J**	**0.00422J**	**0.00195J**	**0.00404J**	<0.0247	<0.0247	<0.0247
	BP-12	1' - 1.5'	5/29/18	<0.00655	<0.00655	<0.00655	<0.00655	<0.00655	<0.00655	<0.00655	<0.00655	<0.00655	<0.00655	<0.00655	<0.00655	<0.00655	<0.0218	<0.00655	<0.00655	<0.0218	<0.0218	<0.0218
	BP-19	1' - 1.5'	5/29/18	**0.00173**	<0.00711	<0.00711	**0.00132**	**0.00484**	**0.00485**	**0.0171**	**0.00205**	**0.00119**	**0.00227**	**0.002**	**0.00129**	**0.00134**	**0.00821**	**0.0087**	**0.0031**	**0.00408**	**0.0131**	<0.0237
Historical Structure	H-4	1' - 1.5'	5/29/18	<0.0351	<0.0351	<0.0351	**0.00892J**	**0.0109J**	**0.026J**	**0.0225J**	**0.00733J**	**0.0236J**	**0.00887J**	**0.012J**	<0.0351	**0.00468J**	<0.117	**0.00999J**	**0.0307J**	<0.117	<0.117	<0.117
USEPA RSL				**18,000**	**3,600**	**NE**	**1.1**	**0.11**	**1.1**	**NE**	**11**	**110**	**0.11**	**2,400**	**2,400**	**1.1**	**3.8**	**NE**	**1,800**	**18**	**240**	**4,800**

Notes:
Polycyclic aromatic hydrocarbons (PAHs) analyzed using U.S. EPA Method 8270-Selective Ion Mode (SIM) for lower reporting limits.

bgs	Below ground surface.	NE	Not established.
<RDL	Indicates chemical not detected at or above stated laboratory reported detection limits.	J	Estimated concentration. See laboratory analytical reports for other lab qualifiers.
--	Indicates sample not analyzed.	USEPA RSL	United States Environmental Protection Agency Regional Screening Levels for Residential Uses (May 2018).

Table 5. Summary of Naturally Occurring Asbestos Detected in Soil Samples

Preliminary Environmental Assessment and SSI Sampling

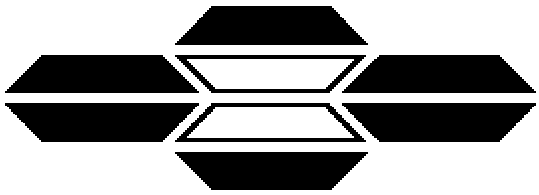
Taft Community School

Redwood City, California

Sample ID	Sample Type	Sample Depth	Polarized Light Microscopy Results[1]	Transmission Electron Microscopy Results[2]
BP-1@1-2.5'	**Soil**	**1-2.5'**	<0.25%	<0.0001% Chrysotile <0.0001% Amphibole
BP-3@1-1.5'	**Soil**	**1-1.5'**	<0.25%	NA
BP-8@1-2.5'	**Soil**	**1-2.5'**	<0.25%	NA
BP-13@1-3'	**Soil**	**1-3'**	<0.25%	NA
BP-16@1-2.5'	**Soil**	**1-2.5'**	<0.25%	<0.0001% Chrysotile <0.0001% Amphibole
DTSC Screening Level			**0.25%**	**<25% of Samples >0.01%**

Notes:

bgs	Below ground surface.
[1]	California Air Resources Board (ARB) Method 435 - 400 Point Count.
[2]	TEM NOA EPA /California ARB Quantitative.
<RDL	Indicates compound not detected at or above stated laboratory reporting limits.
NA	Not analyzed.
0.25% (PLM)/ 0.01% (TEM)	Department of Toxic Substances Control (DTSC) Screening Level - DTSC School Division screening concentration (weight percent).



ASBESTOS TEM LABORATORIES, INC.

CARB Method 435
Polarized Light Microscopy
Analytical Report

Laboratory Job # 1340-01019

630 Bancroft Way
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429

ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP
Lab No. 1866

NVLAP Lab Code: 101891-0
Berkeley, CA

Jun/07/2018

Tom McCloskey
McCloskey Consultants
420 Sycamore Valley Rd West
Danville, CA 94526

RE: LABORATORY JOB # 1340-01019
Polarized light microscopy analytical results for 5 bulk sample(s).
Job Site:
Job No.: Taft Community School

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microsope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting techinique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. ---

POLARIZED LIGHT MICROSCOPY
CARB 435 ANALYTICAL REPORT

Contact: Tom McCloskey

Address: McCloskey Consultants
420 Sycamore Valley Rd West
Danville, CA 94526

Samples Submitted: 5

Samples Analyzed: 5

Job Site / No. Taft Community School

Report No. **358134**

Date Submitted: Jun-01-18

Date Reported: Jun-07-18

SAMPLE ID	POINTS COUNTED	ASBESTOS %	ASBESTOS TYPE	LOCATION / DESCRIPTION
BP-1@1-2.5'		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1340-01019-001	**400** - Total Points			
BP-3@1-1.5'		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1340-01019-002	**400** - Total Points			
BP-8@1-2.5'		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1340-01019-003	**400** - Total Points			
BP-13@1-3'		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1340-01019-004	**400** - Total Points			
BP-16@1-2.5'		**<0.25%**	**None Detected**	No Asbestos Detected
Lab ID # 1340-01019-005	**400** - Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			

QC Reviewer _____ **Analys** Jo Ann Hunter

358134

ASBESTOS TEM LABORATORIES CHAIN OF CUSTODY

CALIFORNIA: 600 Bancroft Way, Suite A, Berkeley, CA 94710 Phone (510) 704-8930 Fax (510) 704-8429
NEVADA: 1350 Freeport Blvd. #104, Sparks, NV 89431 Phone (775) 359-3377 Fax (775) 359-2798
You may also email this chain of custody to coc@asbestostemlabs.com ***denotes required field***

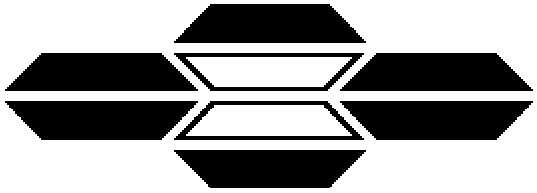
Company: McCloskey Consultants Inc	*Contact:** Tom McCloskey / Chris Vertin	*Phone:** 925-786-2667	*Email:* *tom@mccloskeyconsultants.com
*Address:** 420 Sycamore Valley Road West	*City:** Danville	*State:** CA *Zip:* 94526	*Email:* chris@cvenvironmental.com
*Job Site:** Taft Community School	*Job #:*	*PO #:*	*Email:*

Reporting *	☐ Email	☐ Phone	☐ Fax	☐ Mail	☐ FTP	☐ Pickup	**Billing**	☐ Fax	☐ Email	☐ Mail	☐ Pre-Paid	☐ On Receipt:	☐ *3rd Party*	
Results Due:*	☐ 2 HR	☐ 4 HR	☐ 6 HR	☐ 8 HR	☐ 24 HR	☐ 48 HR	☐ 3 DAY	☐ 4 DAY	☒ 5 DAY	☐ 10 DAY	☐ Hold Samples	☐ ***After Hours:** ** _____	***see below***	
Asbestos Air	☐ PCM (NIOSH 7400A	☐ TEM AHERA	☐ TEM CARB Mod. AHERA	☐ TEM EPA Yamate Level II	☐ TEM NIOSH 7402	☐ ISO 10312	☐ ISO 13794							
Asbestos Bulk	☐ PLM Standard (EPA 600/R-93-1)	☐ PLM 400 PC	☐ PLM 1000 PC	☐ PLM 400 PC Grav. Red.	☐ PLM 1000 PC Grav. Red.	☐ TEM EPA Qualitative	☐ TEM EPA Quantitative							
	☐ TEM Chatfield (Semi-Quant)	☐ **PREP ONLY**	☐ Custom Analysis: **											
Asbestos Soils	☐ CARB 435 Prep Only	☒ CARB 435 PLM 400 PC	☐ CARB 435 PLM 1000 PC	☐ EPA Soil Screening Qualitative	☐ TEM EPA/CARB Quantitative									
Asbestos Dust	☐ ASTM D-5755 Fiber Count	☐ ASTM D-5756 Wt. %	☐ ASTM D-5756 Mass	☐ ASTM D-6480-99 Dust Wipe	☐ Total Particulates (Grav.)									
Asbestos Water	☐ 100.2 Potable Drinking Water	☐ 100.1 Non Potable Water	☐ REPORT TO STATE: EDT # _____											
Lead/Silica	☐ Lead Paint Chips	☐ Lead Dust Wipe	☐ Lead Air Cassette	☐ Lead Soil	☐ Silica Dust Airborne by NIOSH 7500	☐ Crystalline Silica (Single Species)	☐ Silica Dust Bulk by NIOSH 7500	☐ Crystalline Silica in Bulk (Single Species)						
Sample Storage	☐ No Test, Hold Until: _____	☐ Test AND Hold Until: _____ *All samples will be held for 3 months from the date of receipt at ATEM. Additional sample storage time may be obtained through ATEM Customer Service.*												
Custom Order	☐ Sensitivity: _____	☐ Composite	**8 Hour TWA** ☐	**Special Instructions:**										
REANALYSIS	Original Login/Lot # _____/_____	New Analysis Type: _____	TAT: _____	Special Instructions: _____										

Sample #*	Sample Type	Date Collected	Time ~~On~~	~~Time~~ Off	Total Time (min)	Flow Rate (lpm) On	Flow Rate (lpm) Off	Flow Rate (lpm) Average	Volume or Area Sampled	Hold Sample	Description *
BP-1 @ 1-2½'	Bulk Soil	5.29.18	17:30							☐	
BP-3 @ 1-1½'	"	"	17:05							☐	
BP-8 @ 1-2½'	"	"	19:33							☐	
BP-13 @ 1-3'	"	"	14:24							☐	
BP-16 @ 1-2½'	"	"	15:43							☐	
										☐	
										☐	
										☐	
										☐	
										☐	
										☐	

Submitted By *		**Received By**	
Date/Time Submitted *	6/1/18	**Date/Time Received**	JUN 18 12:50PM
Submitted By		**Received By**	
Date/Time Submitted		**Date/Time Received**	

*** Any special instructions, RUSH results or Custom Analysis, you must clarify these specifications AND, of more importance, contact us here at ATEM ahead of time to manage scheduling to meet your requests. Drop off and processing of samples after hours cannot be accommodated without proper notification from you, and confirmation by ATEM staff.*



ASBESTOS TEM LABORATORIES, INC.

EPA Quantitative Bulk Test Method
Transmission Electron Microscopy
Analytical Report

Laboratory Report # 358135

600 Bancroft Way, Ste. A
Berkeley, CA 94710
(510) 704-8930
FAX (510) 704-8429
www.asbestostemlabs.com

ASBESTOS TEM LABORATORIES, INC

Jun/07/2018

Tom McCloskey

McCloskey Consultants
420 Sycamore Valley Rd West
Danville, CA 94526

RE: LABORATORY REPORT # 358135
Transmission electron microscopy analytical results for 2 bulk material sample(s).
Job Site: Taft Community School
Job No.:

Please find below the results for the TEM analysis of one or more bulk material samples. The analytical procedures were performed according to the EPA Test Method For the Determination of Asbestos in Bulk Building Materials - TEM method (EPA 600/R-93/116) modified for quantitative bulk soil sample analysis. Prior to analysis, each sample was logged-in and all pertinent data was recorded. Each sample was checked for damage and disruption of any chain-of-custody seals. A unique laboratory number was assigned to each sample. A hard copy Log-In sheet was generated. This, and all other relevant paper work was kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation followed a standard CARB 435 prep method. The entire sample was dried at 135-150 C and then crushed to ~3/8" gravel size. If the submitted sample was >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, was then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. A representative ~60 mg aliquot of material was weighed out, and then placed into solution in a 500 ml beaker filled with distilled water. A known volume of the liquid suspension was filtered onto a 0.2 micron pore size Millipore mixed cellulose ester filter. The filter was then dried in HEPA filtered, Class 100 air on a clean bench. The filter was placed onto a glass microscope slide, sectioned, and collapsed in acetone. The collapsed filter was plasma-etched to remove 10% of the filter surface and then carbon coated. The carbon coated filter was sectioned and the sections placed onto 200-mesh copper TEM sample grids in dimethyl sulfoxide and acetone wick washers. After sufficient time to dissolve the filter material, the TEM sample grids were removed from the baths and placed into labeled sample containers.

TEM analysis was performed on a Philips CM-12 or JEOL 1200 transmission electron microscope operating at 80 or 100 kV. The sample was placed into the microscope where it was first scanned at low magnification to confirm that the distribution of material was reasonably homogeneous. High magnification analysis was performed using a two tier approach: 1) A relatively large area of several TEM grid openings for large asbestos fibers or fiber bundles, and 2) a relatively small area of a number of fields of view for individual asbestos fibers (fibrous particles exhibiting an aspect ratio greater than or equal to 3 to 1, and a length greater than or equal to .5 um). Detected asbestiform structures were subjected to detailed morphological and/or selected area diffraction analysis. If necessary, energy dispersive X-ray analysis was also performed. The length and width of each asbestos fiber was measured. From this data, a total volume and mass of asbestos observed in the scanned area is calculated, and extrapolated to a total weight percent asbestos for each sample.

Sincerely Yours,

Laboratory Manager

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

TRANSMISSION ELECTRON MICROSCOPY
ANALYTICAL REPORT

Contact:	Tom McCloskey	**REPORT NO.**	**358135**
Address:	McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526	Date:	Jun-07-18
		Date Received:	Jun-01-18
Job Site / No.	Taft Community School	Total Samples Analyzed:	2

Client Sample # BP-1@1-2.5'

Laboratory Sample # 1340-01020-001

SAMPLE DESCRIPTION

SAMPLE PREPARATION PARAMETERS

Weight of Material Suspended (mg):	60.05	Filter Type & Pore Size	MCE0.22um
Volume of Suspension Water (ml):	500	Effective Filter Area (sq.mm)	346
Volume of Suspension Filtered (ml):	0.5		

ASBESTOS DETECTED IN SCAN AREA

CHRYSOTILE		AMPHIBOLE	
< 5 µm	≥ 5 µm	< 5 µm	≥ 5 µm
NSD	NSD	NSD	NSD

CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)

CHRYSOTILE	AMPHIBOLE	TOTAL
<0.0001	<0.0001	<0.0001

COMMENTS

No Asbestos Detected	**Filter Loading:** Moderate **SAED Photo ID Nos.**

TEM / ANALYTICAL PARAMETERS

Grid Op. # Scanned For Large Fibers & Bundles	20	Grid Area (sq.mm)	0.0086	Bundle Scan Area (sq.mm)	0.172
Grid Op. # Scanned For Small Fibers & Bundles	20	Grid Area (sq.mm)	0.0086	Fiber Scan Area (sq.mm)	0.172
		Magnification:	18,000X		

NOTATION KEY

Chrys. - Chrysotile Asbestos
Amph. - Amphibole Asbestos
NSD - No Structures Detected
Non-Asb. - Non-Asbestos

1 um = 1 micron = 0.001 mm
1 mm = 1 millimeter
1 sq.mm = 1 square millimeter
1 cc = 1 cubic centimeter

Jia Meisheng
Analyst Signature

Meg Sumner-Moore
Lab QC Reviewer Signature

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemlabs.com
600 BANCROFT WAY, STE. A, BERKELEY, CA 94710 (510) 704-8930
With Offices in Reno, NV (775) 359-3377

TRANSMISSION ELECTRON MICROSCOPY
ANALYTICAL REPORT

Contact:	Tom McCloskey	**REPORT NO.**	**358135**
Address:	McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526	Date:	Jun-07-18
		Date Received:	Jun-01-18
Job Site / No.	Taft Community School	Total Samples Analyzed:	2

Client Sample # BP-16@1-2.5'

Laboratory Sample # 1340-01020-002

SAMPLE DESCRIPTION

SAMPLE PREPARATION PARAMETERS

Weight of Material Suspended (mg):	59.14	Filter Type & Pore Size	MCE0.22um
Volume of Suspension Water (ml):	500	Effective Filter Area (sq.mm)	346
Volume of Suspension Filtered (ml):	0.5		

ASBESTOS DETECTED IN SCAN AREA

CHRYSOTILE		AMPHIBOLE	
< 5 µm	≥ 5 µm	< 5 µm	≥ 5 µm
NSD	NSD	NSD	NSD

CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)

CHRYSOTILE	AMPHIBOLE	TOTAL
<0.0001	<0.0001	<0.0001

COMMENTS

No Asbestos Detected	**Filter Loading:** Moderate **SAED Photo ID Nos.**

TEM / ANALYTICAL PARAMETERS

Grid Op. # Scanned For Large Fibers & Bundles	20	Grid Area (sq.mm)	0.0086	Bundle Scan Area (sq.mm)	0.172
Grid Op. # Scanned For Small Fibers & Bundles	20	Grid Area (sq.mm)	0.0086	Fiber Scan Area (sq.mm)	0.172
		Magnification:	18,000X		

NOTATION KEY

Chrys. - Chrysotile Asbestos
Amph. - Amphibole Asbestos
NSD - No Structures Detected
Non-Asb. - Non-Asbestos

1 um = 1 micron = 0.001 mm
1 mm = 1 millimeter
1 sq.mm = 1 square millimeter
1 cc = 1 cubic centimeter

Ita Meisheng
Analyst Signature

Meg Sumner-Moore
Lab QC Reviewer Signature

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358135

ASBESTOS TEM LABORATORIES CHAIN OF CUSTODY

CALIFORNIA: 600 Bancroft Way, Suite A, Berkeley, CA 94710 Phone (510) 704-8930 Fax (510) 704-8429
NEVADA: 1350 Freeport Blvd. #104, Sparks, NV 89431 Phone (775) 359-3377 Fax (775) 359-2798
You may also email this chain of custody to coc@asbestostemlabs.com ** denotes required field*

Company: McCloskey Consultants Inc	*Contact:** Tom McCloskey / Chris Vertin	*Phone:** 925-786-2667	*Email:* *tom@mccloskeyconsultants.com
*Address:** 420 Sycamore Valley Road West	*City:** Danville	*State:** CA *Zip:* 94526	*Email:* chris@cvenvironmental.com
*Job Site:** Taft Community School	*Job #:*	*PO #:*	*Email:*

Reporting *	☐ Email	☐ Phone	☐ Fax	☐ Mail	☐ FTP	☐ Pickup	**Billing**	☐ Fax	☐ Email	☐ Mail	☐ Pre-Paid	☐ On Receipt:	☐ 3rd Party
Results Due:*	☐ 2 HR	☐ 4 HR	☐ 6 HR	☐ 8 HR	☐ 24 HR	☐ 48 HR	☐ 3 DAY	☐ 4 DAY	☐ 5 DAY	☐ 10 DAY	☐ Hold Samples	☐ ***After Hours:**** _____	***see below***
Asbestos Air	☐ PCM (NIOSH 7400A	☐ TEM AHERA	☐ TEM CARB Mod. AHERA	☐ TEM EPA Yamate Level II	☐ TEM NIOSH 7402	☐ ISO 10312	☐ ISO 13794						
Asbestos Bulk	☐ PLM Standard (EPA 600/R-93-1)	☐ PLM 400 PC	☐ PLM 1000 PC	☐ PLM 400 PC Grav. Red	☐ PLM 1000 PC Grav. Red	☐ TEM EPA Qualitative	☐ TEM EPA Quantitative						
	☐ TEM Chatfield (Semi-Quant)	☐ **PREP ONLY**	☐ **Custom Analysis:** **										
Asbestos Soils	☐ CARB 435 Prep Only	☐ CARB 435 PLM 400 PC	☐ CARB 435 PLM 1000 PC	☐ EPA Soil Screening Qualitative	☒ TEM EPA/CARB Quantitative								
Asbestos Dust	☐ ASTM D-5755 Fiber Count	☐ ASTM D-5756 Wt. %	☐ ASTM D-5756 Mass	☐ ASTM D-6480-99 Dust Wipe	☐ Total Particulates (Grav.)								
Asbestos Water	☐ 100.2 Potable Drinking Water	☐ 100.1 Non Potable Water	☐ REPORT TO STATE: EDT # _____										
Lead/Silica	☐ Lead Paint Chips	☐ Lead Dust Wipe	☐ Lead Air Cassette	☐ Lead Soil	☐ Silica Dust Airborne by NIOSH 7500	☐ Crystalline Silica (Single Species)	☐ Silica Dust Bulk by NIOSH 7500	☐ Crystalline Silica in Bulk (Single Species)					
Sample Storage	☐ No Test, Hold Until: _____	☐ Test AND Hold Until: _____ *All samples will be held for 3 months from the date of receipt at ATEM. Additional sample storage time may be obtained through ATEM Customer Service*											
Custom Order	☒ Sensitivity: 0.005%	☐ Composite	**8 Hour TWA** ☐	**Special Instructions:**									
REANALYSIS	Original Login/Lot # _____/_____	New Analysis Type: _____	TAT: _____	Special Instructions: _____									

Sample # *	Sample Type	Date Collected	Time On	Time Off	Total Time (min)	Flow Rate (lpm) On	Flow Rate (lpm) Off	Flow Rate (lpm) Average	Volume or Area Sampled	Hold Sample	Description *
BP-1@1-2½'	Bulk Soil	5.29.18	17:30							☒ CW 6/1/18	~~Another~~ Analyzed
BP-3@1-1½'	"	"	17:05							☒	
BP-8@1-2½'	"	"	15:33							☒	
BP-13@1-3'	"	"	14:24							☒	
BP-16@1-2½'	"	"	15:43							☐	
										☐	
										☐	
										☐	
										☐	
										☐	
										☐	

Submitted By *		**Received By**	
Date/Time Submitted *	6/1/18	**Date/Time Received**	JUN 18 12:53PM
Submitted By		**Received By**	
Date/Time Submitted		**Date/Time Received**	

*** Any special instructions, RUSH results or Custom Analysis, you must clarify these specifications AND, of more importance, contact us here at ATEM ahead of time to manage scheduling to meet your requests. Drop off and processing of samples after hours cannot be accommodated without proper notification from you, and confirmation by ATEM staff.*

ANALYTICAL REPORT

June 08, 2018

McCloskey Consulting - Danville, CA

Sample Delivery Group:	L998248
Samples Received:	06/01/2018
Project Number:	
Description:	Taft Community School

Report To: Tom McCloskey
420 Sycamore Valley Rd West
Danville, CA 94526

Entire Report Reviewed By:

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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BP-1 L998248-01 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 17:41 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119703	1	06/05/18 12:28	06/05/18 12:36	KDW
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 20:10	TD

BP-2A L998248-02 Solid

Collected by: Chris Vertin | Collected date/time: 05/25/18 14:42 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119502	1	06/04/18 13:12	06/04/18 13:21	JD
Metals (ICP) by Method 6010B	WG1119324	1	06/04/18 10:28	06/05/18 20:46	TRB
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 12:10	TD
Pesticides (GC) by Method 8081	WG1119415	5	06/06/18 06:36	06/08/18 14:52	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 15:25	TD

BP-2B L998248-03 Solid

Collected by: Chris Vertin | Collected date/time: 05/25/18 14:45 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119502	1	06/04/18 13:12	06/04/18 13:21	JD
Metals (ICP) by Method 6010B	WG1119324	1	06/04/18 10:28	06/05/18 20:49	TRB
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 12:25	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 15:38	TD

BP-2 L998248-04 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 11:56 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119703	1	06/05/18 12:28	06/05/18 12:36	KDW
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 20:25	TD

BP-3 L998248-05 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 17:10 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119703	1	06/05/18 12:28	06/05/18 12:36	KDW
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 20:40	TD

BP-4 L998248-06 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 17:13 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119703	1	06/05/18 12:28	06/05/18 12:36	KDW
Metals (ICP) by Method 6010B	WG1119324	1	06/04/18 10:28	06/05/18 20:56	TRB
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 12:40	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 15:52	TD

BP-4 L998248-07 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 17:17 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119703	1	06/05/18 12:28	06/05/18 12:36	KDW
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 20:54	TD

BP-5 L998248-08 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 16:40 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119703	1	06/05/18 12:28	06/05/18 12:36	KDW
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 23:22	TD

BP-6A L998248-09 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 16:55 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119704	1	06/05/18 12:39	06/05/18 12:51	KDW
Metals (ICP) by Method 6010B	WG1119324	1	06/04/18 10:28	06/05/18 20:59	TRB
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/07/18 11:45	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 16:05	TD

BP-6B L998248-10 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 16:57 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119704	1	06/05/18 12:39	06/05/18 12:51	KDW
Metals (ICP) by Method 6010B	WG1119324	1	06/04/18 10:28	06/05/18 21:01	TRB
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 13:09	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 16:19	TD

BP-6 L998248-11 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 17:00 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119704	1	06/05/18 12:39	06/05/18 12:51	KDW
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 09:46	VKS

BP-7 L998248-12 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 15:24 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119704	1	06/05/18 12:39	06/05/18 12:51	KDW
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 09:58	VKS

BP-8 L998248-13 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 15:38 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119704	1	06/05/18 12:39	06/05/18 12:51	KDW
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 10:11	VKS

BP-9 L998248-14 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 13:19 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119704	1	06/05/18 12:39	06/05/18 12:51	KDW
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 10:23	VKS

BP-10 L998248-15 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 13:44 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119704	1	06/05/18 12:39	06/05/18 12:51	KDW
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 10:35	VKS

BP-11 L998248-16 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 10:18 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119704	1	06/05/18 12:39	06/05/18 12:51	KDW
Metals (ICP) by Method 6010B	WG1119324	1	06/04/18 10:28	06/05/18 21:04	TRB
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 14:52	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 16:32	TD

BP-11 L998248-17 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 10:25 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119704	1	06/05/18 12:39	06/05/18 12:51	KDW
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 10:48	KLM

BP-12 L998248-18 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 11:44 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119704	1	06/05/18 12:39	06/05/18 12:51	KDW
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 11:00	VKS

BP-13 L998248-19 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 14:25 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119705	1	06/05/18 09:05	06/05/18 09:18	JD
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 11:13	VKS

BP-14 L998248-20 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 14:35 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119705	1	06/05/18 09:05	06/05/18 09:18	JD
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 11:25	VKS

BP-15 L998248-21 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 15:12 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119705	1	06/05/18 09:05	06/05/18 09:18	JD
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/06/18 13:08	VKS

BP-16 L998248-22 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 15:48 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119705	1	06/05/18 09:05	06/05/18 09:18	JD
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 11:38	VKS

BP-17 L998248-23 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 16:37 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119705	1	06/05/18 09:05	06/05/18 09:18	JD
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 11:50	VKS

BP-18 L998248-24 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 15:55 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119705	1	06/05/18 09:05	06/05/18 09:18	JD
Metals (ICP) by Method 6010B	WG1119324	1	06/04/18 10:28	06/05/18 21:06	TRB
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 13:24	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 16:46	TD

BP-18 L998248-25 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 15:58 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119705	1	06/05/18 09:05	06/05/18 09:18	JD
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 12:02	VKS

BP-19A L998248-26 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 14:03 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119705	1	06/05/18 09:05	06/05/18 09:18	JD
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 12:15	VKS

BP-19B L998248-27 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 14:05 | Received date/time: 06/01/18 08:45

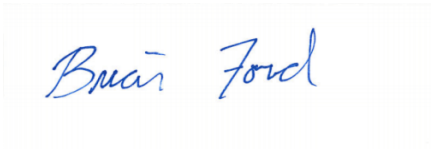
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119705	1	06/05/18 09:05	06/05/18 09:18	JD
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 12:27	VKS

BP-20 L998248-28 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	05/29/18 12:10	06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119705	1	06/05/18 09:05	06/05/18 09:18	JD
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 12:40	VKS

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.4		1	06/05/2018 12:36	WG1119703

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000309	0.0265	1	06/07/2018 20:10	WG1120795
Alpha BHC	U		0.000256	0.0265	1	06/07/2018 20:10	WG1120795
Beta BHC	U		0.000402	0.0265	1	06/07/2018 20:10	WG1120795
Delta BHC	U		0.000200	0.0265	1	06/07/2018 20:10	WG1120795
Gamma BHC	U		0.000325	0.0265	1	06/07/2018 20:10	WG1120795
4,4-DDD	U		0.000217	0.0265	1	06/07/2018 20:10	WG1120795
4,4-DDE	U		0.000219	0.0265	1	06/07/2018 20:10	WG1120795
4,4-DDT	U		0.000353	0.0265	1	06/07/2018 20:10	WG1120795
Dieldrin	U		0.000118	0.00265	1	06/07/2018 20:10	WG1120795
Endosulfan I	U		0.000284	0.0265	1	06/07/2018 20:10	WG1120795
Endosulfan II	U		0.000305	0.0265	1	06/07/2018 20:10	WG1120795
Endosulfan sulfate	U		0.000225	0.0265	1	06/07/2018 20:10	WG1120795
Endrin	U		0.000290	0.0265	1	06/07/2018 20:10	WG1120795
Endrin aldehyde	U		0.000321	0.0265	1	06/07/2018 20:10	WG1120795
Endrin ketone	U		0.000211	0.0265	1	06/07/2018 20:10	WG1120795
Heptachlor	U		0.000134	0.0265	1	06/07/2018 20:10	WG1120795
Heptachlor epoxide	U		0.000501	0.0265	1	06/07/2018 20:10	WG1120795
Hexachlorobenzene	U		0.000297	0.0265	1	06/07/2018 20:10	WG1120795
Methoxychlor	U		0.000351	0.0265	1	06/07/2018 20:10	WG1120795
Chlordane	U		0.0517	0.265	1	06/07/2018 20:10	WG1120795
Toxaphene	U		0.0477	0.530	1	06/07/2018 20:10	WG1120795
(S) Decachlorobiphenyl	*46.1*			*10.0-148*		*06/07/2018 20:10*	WG1120795
(S) Tetrachloro-m-xylene	*57.1*			*21.0-146*		*06/07/2018 20:10*	WG1120795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.6		1	06/04/2018 13:21	WG1119502

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.26		0.871	2.68	1	06/05/2018 20:46	WG1119324
Lead	41.4		0.255	0.670	1	06/05/2018 20:46	WG1119324

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000312	0.0268	1	06/06/2018 12:10	WG1119415
Alpha BHC	U		0.000259	0.0268	1	06/06/2018 12:10	WG1119415
Beta BHC	U		0.000406	0.0268	1	06/06/2018 12:10	WG1119415
Delta BHC	U		0.000202	0.0268	1	06/06/2018 12:10	WG1119415
Gamma BHC	U		0.000328	0.0268	1	06/06/2018 12:10	WG1119415
4,4-DDD	U		0.000220	0.0268	1	06/06/2018 12:10	WG1119415
4,4-DDE	U		0.000221	0.0268	1	06/06/2018 12:10	WG1119415
4,4-DDT	0.0373		0.000356	0.0268	1	06/06/2018 12:10	WG1119415
Dieldrin	U		0.000119	0.00268	1	06/06/2018 12:10	WG1119415
Endosulfan I	U		0.000287	0.0268	1	06/06/2018 12:10	WG1119415
Endosulfan II	U		0.000308	0.0268	1	06/06/2018 12:10	WG1119415
Endosulfan sulfate	U		0.000228	0.0268	1	06/06/2018 12:10	WG1119415
Endrin	U		0.000293	0.0268	1	06/06/2018 12:10	WG1119415
Endrin aldehyde	U		0.000324	0.0268	1	06/06/2018 12:10	WG1119415
Endrin ketone	U		0.000213	0.0268	1	06/06/2018 12:10	WG1119415
Heptachlor	0.00422	J	0.000135	0.0268	1	06/06/2018 12:10	WG1119415
Heptachlor epoxide	U		0.000507	0.0268	1	06/06/2018 12:10	WG1119415
Hexachlorobenzene	0.00169	J	0.000300	0.0268	1	06/06/2018 12:10	WG1119415
Methoxychlor	U		0.000355	0.0268	1	06/06/2018 12:10	WG1119415
Chlordane	2.81		0.261	1.34	5	06/08/2018 14:52	WG1119415
Toxaphene	U		0.0482	0.536	1	06/06/2018 12:10	WG1119415
(S) Decachlorobiphenyl	*49.5*			*10.0-148*		*06/06/2018 12:10*	WG1119415
(S) Decachlorobiphenyl	*116*			*10.0-148*		*06/08/2018 14:52*	WG1119415
(S) Tetrachloro-m-xylene	*55.4*			*21.0-146*		*06/06/2018 12:10*	WG1119415
(S) Tetrachloro-m-xylene	*62.0*			*21.0-146*		*06/08/2018 14:52*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00469	0.0228	1	06/06/2018 15:25	WG1119415
PCB 1221	U		0.00720	0.0228	1	06/06/2018 15:25	WG1119415
PCB 1232	U		0.00559	0.0228	1	06/06/2018 15:25	WG1119415
PCB 1242	U		0.00426	0.0228	1	06/06/2018 15:25	WG1119415
PCB 1248	U		0.00422	0.0228	1	06/06/2018 15:25	WG1119415
PCB 1254	U		0.00632	0.0228	1	06/06/2018 15:25	WG1119415
PCB 1260	U		0.00662	0.0228	1	06/06/2018 15:25	WG1119415
(S) Decachlorobiphenyl	*72.5*			*10.0-148*		*06/06/2018 15:25*	WG1119415
(S) Tetrachloro-m-xylene	*65.4*			*21.0-146*		*06/06/2018 15:25*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	06/04/2018 13:21	WG1119502

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.51		0.710	2.19	1	06/05/2018 20:49	WG1119324
Lead	63.7		0.208	0.546	1	06/05/2018 20:49	WG1119324

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000255	0.0219	1	06/06/2018 12:25	WG1119415
Alpha BHC	U		0.000211	0.0219	1	06/06/2018 12:25	WG1119415
Beta BHC	U		0.000331	0.0219	1	06/06/2018 12:25	WG1119415
Delta BHC	U		0.000165	0.0219	1	06/06/2018 12:25	WG1119415
Gamma BHC	U		0.000268	0.0219	1	06/06/2018 12:25	WG1119415
4,4-DDD	U		0.000179	0.0219	1	06/06/2018 12:25	WG1119415
4,4-DDE	0.0536		0.000180	0.0219	1	06/06/2018 12:25	WG1119415
4,4-DDT	0.0448		0.000291	0.0219	1	06/06/2018 12:25	WG1119415
Dieldrin	U		0.0000973	0.00219	1	06/06/2018 12:25	WG1119415
Endosulfan I	U		0.000234	0.0219	1	06/06/2018 12:25	WG1119415
Endosulfan II	U		0.000251	0.0219	1	06/06/2018 12:25	WG1119415
Endosulfan sulfate	U		0.000186	0.0219	1	06/06/2018 12:25	WG1119415
Endrin	U		0.000239	0.0219	1	06/06/2018 12:25	WG1119415
Endrin aldehyde	U		0.000265	0.0219	1	06/06/2018 12:25	WG1119415
Endrin ketone	U		0.000174	0.0219	1	06/06/2018 12:25	WG1119415
Heptachlor	0.00286	J	0.000110	0.0219	1	06/06/2018 12:25	WG1119415
Heptachlor epoxide	0.0319	P	0.000413	0.0219	1	06/06/2018 12:25	WG1119415
Hexachlorobenzene	0.00146	J	0.000245	0.0219	1	06/06/2018 12:25	WG1119415
Methoxychlor	U		0.000290	0.0219	1	06/06/2018 12:25	WG1119415
Chlordane	U		0.0426	0.219	1	06/06/2018 12:25	WG1119415
Toxaphene	U		0.0393	0.437	1	06/06/2018 12:25	WG1119415
(S) Decachlorobiphenyl	*68.0*			*10.0-148*		*06/06/2018 12:25*	WG1119415
(S) Tetrachloro-m-xylene	*69.2*			*21.0-146*		*06/06/2018 12:25*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00383	0.0186	1	06/06/2018 15:38	WG1119415
PCB 1221	U		0.00587	0.0186	1	06/06/2018 15:38	WG1119415
PCB 1232	U		0.00456	0.0186	1	06/06/2018 15:38	WG1119415
PCB 1242	U		0.00348	0.0186	1	06/06/2018 15:38	WG1119415
PCB 1248	U		0.00344	0.0186	1	06/06/2018 15:38	WG1119415
PCB 1254	U		0.00516	0.0186	1	06/06/2018 15:38	WG1119415
PCB 1260	U		0.00540	0.0186	1	06/06/2018 15:38	WG1119415
(S) Decachlorobiphenyl	*104*			*10.0-148*		*06/06/2018 15:38*	WG1119415
(S) Tetrachloro-m-xylene	*82.1*			*21.0-146*		*06/06/2018 15:38*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.5		1	06/05/2018 12:36	WG1119703

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000305	0.0262	1	06/07/2018 20:25	WG1120795
Alpha BHC	U		0.000252	0.0262	1	06/07/2018 20:25	WG1120795
Beta BHC	U		0.000396	0.0262	1	06/07/2018 20:25	WG1120795
Delta BHC	U		0.000197	0.0262	1	06/07/2018 20:25	WG1120795
Gamma BHC	U		0.000320	0.0262	1	06/07/2018 20:25	WG1120795
4,4-DDD	U		0.000214	0.0262	1	06/07/2018 20:25	WG1120795
4,4-DDE	U		0.000216	0.0262	1	06/07/2018 20:25	WG1120795
4,4-DDT	U		0.000348	0.0262	1	06/07/2018 20:25	WG1120795
Dieldrin	U		0.000116	0.00262	1	06/07/2018 20:25	WG1120795
Endosulfan I	U		0.000280	0.0262	1	06/07/2018 20:25	WG1120795
Endosulfan II	U		0.000301	0.0262	1	06/07/2018 20:25	WG1120795
Endosulfan sulfate	U		0.000222	0.0262	1	06/07/2018 20:25	WG1120795
Endrin	U		0.000286	0.0262	1	06/07/2018 20:25	WG1120795
Endrin aldehyde	U		0.000317	0.0262	1	06/07/2018 20:25	WG1120795
Endrin ketone	U		0.000208	0.0262	1	06/07/2018 20:25	WG1120795
Heptachlor	U		0.000132	0.0262	1	06/07/2018 20:25	WG1120795
Heptachlor epoxide	U		0.000494	0.0262	1	06/07/2018 20:25	WG1120795
Hexachlorobenzene	U		0.000293	0.0262	1	06/07/2018 20:25	WG1120795
Methoxychlor	U		0.000347	0.0262	1	06/07/2018 20:25	WG1120795
Chlordane	U		0.0510	0.262	1	06/07/2018 20:25	WG1120795
Toxaphene	U		0.0471	0.523	1	06/07/2018 20:25	WG1120795
(S) Decachlorobiphenyl	*54.5*			*10.0-148*		*06/07/2018 20:25*	WG1120795
(S) Tetrachloro-m-xylene	*63.9*			*21.0-146*		*06/07/2018 20:25*	WG1120795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.2		1	06/05/2018 12:36	WG1119703

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000298	0.0256	1	06/07/2018 20:40	WG1120795
Alpha BHC	U		0.000247	0.0256	1	06/07/2018 20:40	WG1120795
Beta BHC	U		0.000387	0.0256	1	06/07/2018 20:40	WG1120795
Delta BHC	U		0.000193	0.0256	1	06/07/2018 20:40	WG1120795
Gamma BHC	U		0.000313	0.0256	1	06/07/2018 20:40	WG1120795
4,4-DDD	U		0.000210	0.0256	1	06/07/2018 20:40	WG1120795
4,4-DDE	U		0.000211	0.0256	1	06/07/2018 20:40	WG1120795
4,4-DDT	U		0.000340	0.0256	1	06/07/2018 20:40	WG1120795
Dieldrin	U		0.000114	0.00256	1	06/07/2018 20:40	WG1120795
Endosulfan I	U		0.000274	0.0256	1	06/07/2018 20:40	WG1120795
Endosulfan II	U		0.000294	0.0256	1	06/07/2018 20:40	WG1120795
Endosulfan sulfate	U		0.000217	0.0256	1	06/07/2018 20:40	WG1120795
Endrin	U		0.000280	0.0256	1	06/07/2018 20:40	WG1120795
Endrin aldehyde	U		0.000309	0.0256	1	06/07/2018 20:40	WG1120795
Endrin ketone	U		0.000203	0.0256	1	06/07/2018 20:40	WG1120795
Heptachlor	U		0.000129	0.0256	1	06/07/2018 20:40	WG1120795
Heptachlor epoxide	U		0.000483	0.0256	1	06/07/2018 20:40	WG1120795
Hexachlorobenzene	U		0.000286	0.0256	1	06/07/2018 20:40	WG1120795
Methoxychlor	U		0.000339	0.0256	1	06/07/2018 20:40	WG1120795
Chlordane	U		0.0499	0.256	1	06/07/2018 20:40	WG1120795
Toxaphene	U		0.0460	0.511	1	06/07/2018 20:40	WG1120795
(S) Decachlorobiphenyl	*31.2*			*10.0-148*		*06/07/2018 20:40*	WG1120795
(S) Tetrachloro-m-xylene	*47.9*			*21.0-146*		*06/07/2018 20:40*	WG1120795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.3		1	06/05/2018 12:36	WG1119703

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	8.84		0.863	2.65	1	06/05/2018 20:56	WG1119324
Lead	11.8		0.252	0.664	1	06/05/2018 20:56	WG1119324

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000309	0.0265	1	06/06/2018 12:40	WG1119415
Alpha BHC	U		0.000256	0.0265	1	06/06/2018 12:40	WG1119415
Beta BHC	U		0.000402	0.0265	1	06/06/2018 12:40	WG1119415
Delta BHC	U		0.000200	0.0265	1	06/06/2018 12:40	WG1119415
Gamma BHC	U		0.000325	0.0265	1	06/06/2018 12:40	WG1119415
4,4-DDD	U		0.000218	0.0265	1	06/06/2018 12:40	WG1119415
4,4-DDE	U		0.000219	0.0265	1	06/06/2018 12:40	WG1119415
4,4-DDT	U		0.000353	0.0265	1	06/06/2018 12:40	WG1119415
Dieldrin	U		0.000118	0.00265	1	06/06/2018 12:40	WG1119415
Endosulfan I	U		0.000284	0.0265	1	06/06/2018 12:40	WG1119415
Endosulfan II	U		0.000305	0.0265	1	06/06/2018 12:40	WG1119415
Endosulfan sulfate	U		0.000226	0.0265	1	06/06/2018 12:40	WG1119415
Endrin	U		0.000291	0.0265	1	06/06/2018 12:40	WG1119415
Endrin aldehyde	U		0.000321	0.0265	1	06/06/2018 12:40	WG1119415
Endrin ketone	U		0.000211	0.0265	1	06/06/2018 12:40	WG1119415
Heptachlor	U		0.000134	0.0265	1	06/06/2018 12:40	WG1119415
Heptachlor epoxide	U		0.000502	0.0265	1	06/06/2018 12:40	WG1119415
Hexachlorobenzene	U		0.000297	0.0265	1	06/06/2018 12:40	WG1119415
Methoxychlor	U		0.000352	0.0265	1	06/06/2018 12:40	WG1119415
Chlordane	U		0.0518	0.265	1	06/06/2018 12:40	WG1119415
Toxaphene	U		0.0478	0.531	1	06/06/2018 12:40	WG1119415
(S) Decachlorobiphenyl	*72.0*			*10.0-148*		*06/06/2018 12:40*	WG1119415
(S) Tetrachloro-m-xylene	*71.5*			*21.0-146*		*06/06/2018 12:40*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00465	0.0226	1	06/06/2018 15:52	WG1119415
PCB 1221	U		0.00713	0.0226	1	06/06/2018 15:52	WG1119415
PCB 1232	U		0.00554	0.0226	1	06/06/2018 15:52	WG1119415
PCB 1242	U		0.00422	0.0226	1	06/06/2018 15:52	WG1119415
PCB 1248	U		0.00418	0.0226	1	06/06/2018 15:52	WG1119415
PCB 1254	U		0.00627	0.0226	1	06/06/2018 15:52	WG1119415
PCB 1260	U		0.00656	0.0226	1	06/06/2018 15:52	WG1119415
(S) Decachlorobiphenyl	*96.7*			*10.0-148*		*06/06/2018 15:52*	WG1119415
(S) Tetrachloro-m-xylene	*81.0*			*21.0-146*		*06/06/2018 15:52*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.1		1	06/05/2018 12:36	WG1119703

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000302	0.0259	1	06/07/2018 20:54	WG1120795
Alpha BHC	U		0.000250	0.0259	1	06/07/2018 20:54	WG1120795
Beta BHC	U		0.000393	0.0259	1	06/07/2018 20:54	WG1120795
Delta BHC	U		0.000196	0.0259	1	06/07/2018 20:54	WG1120795
Gamma BHC	U		0.000318	0.0259	1	06/07/2018 20:54	WG1120795
4,4-DDD	U		0.000213	0.0259	1	06/07/2018 20:54	WG1120795
4,4-DDE	U		0.000214	0.0259	1	06/07/2018 20:54	WG1120795
4,4-DDT	U		0.000345	0.0259	1	06/07/2018 20:54	WG1120795
Dieldrin	U		0.000115	0.00259	1	06/07/2018 20:54	WG1120795
Endosulfan I	U		0.000277	0.0259	1	06/07/2018 20:54	WG1120795
Endosulfan II	U		0.000298	0.0259	1	06/07/2018 20:54	WG1120795
Endosulfan sulfate	U		0.000220	0.0259	1	06/07/2018 20:54	WG1120795
Endrin	U		0.000284	0.0259	1	06/07/2018 20:54	WG1120795
Endrin aldehyde	U		0.000314	0.0259	1	06/07/2018 20:54	WG1120795
Endrin ketone	U		0.000206	0.0259	1	06/07/2018 20:54	WG1120795
Heptachlor	U		0.000131	0.0259	1	06/07/2018 20:54	WG1120795
Heptachlor epoxide	U		0.000490	0.0259	1	06/07/2018 20:54	WG1120795
Hexachlorobenzene	U		0.000290	0.0259	1	06/07/2018 20:54	WG1120795
Methoxychlor	U		0.000344	0.0259	1	06/07/2018 20:54	WG1120795
Chlordane	U		0.0506	0.259	1	06/07/2018 20:54	WG1120795
Toxaphene	U		0.0467	0.519	1	06/07/2018 20:54	WG1120795
(S) Decachlorobiphenyl	*40.7*			*10.0-148*		*06/07/2018 20:54*	WG1120795
(S) Tetrachloro-m-xylene	*50.6*			*21.0-146*		*06/07/2018 20:54*	WG1120795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.8		1	06/05/2018 12:36	WG1119703

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000320	0.0275	1	06/07/2018 23:22	WG1120795
Alpha BHC	U		0.000265	0.0275	1	06/07/2018 23:22	WG1120795
Beta BHC	U		0.000416	0.0275	1	06/07/2018 23:22	WG1120795
Delta BHC	U		0.000207	0.0275	1	06/07/2018 23:22	WG1120795
Gamma BHC	U		0.000336	0.0275	1	06/07/2018 23:22	WG1120795
4,4-DDD	U		0.000225	0.0275	1	06/07/2018 23:22	WG1120795
4,4-DDE	U		0.000227	0.0275	1	06/07/2018 23:22	WG1120795
4,4-DDT	U		0.000365	0.0275	1	06/07/2018 23:22	WG1120795
Dieldrin	U		0.000122	0.00275	1	06/07/2018 23:22	WG1120795
Endosulfan I	U		0.000294	0.0275	1	06/07/2018 23:22	WG1120795
Endosulfan II	U		0.000316	0.0275	1	06/07/2018 23:22	WG1120795
Endosulfan sulfate	U		0.000233	0.0275	1	06/07/2018 23:22	WG1120795
Endrin	U		0.000301	0.0275	1	06/07/2018 23:22	WG1120795
Endrin aldehyde	U		0.000332	0.0275	1	06/07/2018 23:22	WG1120795
Endrin ketone	U		0.000218	0.0275	1	06/07/2018 23:22	WG1120795
Heptachlor	U		0.000139	0.0275	1	06/07/2018 23:22	WG1120795
Heptachlor epoxide	U		0.000519	0.0275	1	06/07/2018 23:22	WG1120795
Hexachlorobenzene	U		0.000308	0.0275	1	06/07/2018 23:22	WG1120795
Methoxychlor	U		0.000364	0.0275	1	06/07/2018 23:22	WG1120795
Chlordane	U		0.0536	0.275	1	06/07/2018 23:22	WG1120795
Toxaphene	U		0.0494	0.549	1	06/07/2018 23:22	WG1120795
(S) Decachlorobiphenyl	*49.1*			*10.0-148*		*06/07/2018 23:22*	WG1120795
(S) Tetrachloro-m-xylene	*59.2*			*21.0-146*		*06/07/2018 23:22*	WG1120795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.4		1	06/05/2018 12:51	WG1119704

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.40		0.898	2.76	1	06/05/2018 20:59	WG1119324
Lead	8.71		0.262	0.691	1	06/05/2018 20:59	WG1119324

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000322	0.0276	1	06/07/2018 11:45	WG1119415
Alpha BHC	U		0.000267	0.0276	1	06/07/2018 11:45	WG1119415
Beta BHC	U		0.000419	0.0276	1	06/07/2018 11:45	WG1119415
Delta BHC	U		0.000209	0.0276	1	06/07/2018 11:45	WG1119415
Gamma BHC	U		0.000338	0.0276	1	06/07/2018 11:45	WG1119415
4,4-DDD	U		0.000227	0.0276	1	06/07/2018 11:45	WG1119415
4,4-DDE	U		0.000228	0.0276	1	06/07/2018 11:45	WG1119415
4,4-DDT	U		0.000367	0.0276	1	06/07/2018 11:45	WG1119415
Dieldrin	U		0.000123	0.00276	1	06/07/2018 11:45	WG1119415
Endosulfan I	U		0.000296	0.0276	1	06/07/2018 11:45	WG1119415
Endosulfan II	U		0.000318	0.0276	1	06/07/2018 11:45	WG1119415
Endosulfan sulfate	U		0.000235	0.0276	1	06/07/2018 11:45	WG1119415
Endrin	0.000437	J	0.000303	0.0276	1	06/07/2018 11:45	WG1119415
Endrin aldehyde	U		0.000334	0.0276	1	06/07/2018 11:45	WG1119415
Endrin ketone	U		0.000220	0.0276	1	06/07/2018 11:45	WG1119415
Heptachlor	U		0.000140	0.0276	1	06/07/2018 11:45	WG1119415
Heptachlor epoxide	U		0.000522	0.0276	1	06/07/2018 11:45	WG1119415
Hexachlorobenzene	U		0.000309	0.0276	1	06/07/2018 11:45	WG1119415
Methoxychlor	U		0.000366	0.0276	1	06/07/2018 11:45	WG1119415
Chlordane	U		0.0539	0.276	1	06/07/2018 11:45	WG1119415
Toxaphene	U		0.0497	0.553	1	06/07/2018 11:45	WG1119415
(S) Decachlorobiphenyl	*70.4*			*10.0-148*		*06/07/2018 11:45*	WG1119415
(S) Tetrachloro-m-xylene	*68.3*			*21.0-146*		*06/07/2018 11:45*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00484	0.0235	1	06/06/2018 16:05	WG1119415
PCB 1221	U		0.00742	0.0235	1	06/06/2018 16:05	WG1119415
PCB 1232	U		0.00576	0.0235	1	06/06/2018 16:05	WG1119415
PCB 1242	U		0.00439	0.0235	1	06/06/2018 16:05	WG1119415
PCB 1248	U		0.00435	0.0235	1	06/06/2018 16:05	WG1119415
PCB 1254	U		0.00652	0.0235	1	06/06/2018 16:05	WG1119415
PCB 1260	U		0.00682	0.0235	1	06/06/2018 16:05	WG1119415
(S) Decachlorobiphenyl	*83.5*			*10.0-148*		*06/06/2018 16:05*	WG1119415
(S) Tetrachloro-m-xylene	*87.3*			*21.0-146*		*06/06/2018 16:05*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.9		1	06/05/2018 12:51	WG1119704

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.93		0.904	2.78	1	06/05/2018 21:01	WG1119324
Lead	11.8		0.264	0.696	1	06/05/2018 21:01	WG1119324

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000324	0.0278	1	06/06/2018 13:09	WG1119415
Alpha BHC	U		0.000268	0.0278	1	06/06/2018 13:09	WG1119415
Beta BHC	U		0.000421	0.0278	1	06/06/2018 13:09	WG1119415
Delta BHC	U		0.000210	0.0278	1	06/06/2018 13:09	WG1119415
Gamma BHC	U		0.000341	0.0278	1	06/06/2018 13:09	WG1119415
4,4-DDD	U		0.000228	0.0278	1	06/06/2018 13:09	WG1119415
4,4-DDE	U		0.000230	0.0278	1	06/06/2018 13:09	WG1119415
4,4-DDT	U		0.000370	0.0278	1	06/06/2018 13:09	WG1119415
Dieldrin	U		0.000124	0.00278	1	06/06/2018 13:09	WG1119415
Endosulfan I	U		0.000298	0.0278	1	06/06/2018 13:09	WG1119415
Endosulfan II	U		0.000320	0.0278	1	06/06/2018 13:09	WG1119415
Endosulfan sulfate	U		0.000236	0.0278	1	06/06/2018 13:09	WG1119415
Endrin	U		0.000305	0.0278	1	06/06/2018 13:09	WG1119415
Endrin aldehyde	U		0.000337	0.0278	1	06/06/2018 13:09	WG1119415
Endrin ketone	U		0.000221	0.0278	1	06/06/2018 13:09	WG1119415
Heptachlor	U		0.000140	0.0278	1	06/06/2018 13:09	WG1119415
Heptachlor epoxide	U		0.000526	0.0278	1	06/06/2018 13:09	WG1119415
Hexachlorobenzene	U		0.000312	0.0278	1	06/06/2018 13:09	WG1119415
Methoxychlor	U		0.000369	0.0278	1	06/06/2018 13:09	WG1119415
Chlordane	U		0.0543	0.278	1	06/06/2018 13:09	WG1119415
Toxaphene	U		0.0501	0.556	1	06/06/2018 13:09	WG1119415
(S) Decachlorobiphenyl	*65.7*			*10.0-148*		*06/06/2018 13:09*	WG1119415
(S) Tetrachloro-m-xylene	*70.7*			*21.0-146*		*06/06/2018 13:09*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00487	0.0236	1	06/06/2018 16:19	WG1119415
PCB 1221	U		0.00747	0.0236	1	06/06/2018 16:19	WG1119415
PCB 1232	U		0.00580	0.0236	1	06/06/2018 16:19	WG1119415
PCB 1242	U		0.00442	0.0236	1	06/06/2018 16:19	WG1119415
PCB 1248	U		0.00438	0.0236	1	06/06/2018 16:19	WG1119415
PCB 1254	U		0.00657	0.0236	1	06/06/2018 16:19	WG1119415
PCB 1260	U		0.00687	0.0236	1	06/06/2018 16:19	WG1119415
(S) Decachlorobiphenyl	*101*			*10.0-148*		*06/06/2018 16:19*	WG1119415
(S) Tetrachloro-m-xylene	*82.3*			*21.0-146*		*06/06/2018 16:19*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.1		1	06/05/2018 12:51	WG1119704

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000294	0.0253	1	06/07/2018 09:46	WG1119416
Alpha BHC	U		0.000244	0.0253	1	06/07/2018 09:46	WG1119416
Beta BHC	U		0.000383	0.0253	1	06/07/2018 09:46	WG1119416
Delta BHC	U		0.000191	0.0253	1	06/07/2018 09:46	WG1119416
Gamma BHC	U		0.000310	0.0253	1	06/07/2018 09:46	WG1119416
4,4-DDD	U		0.000207	0.0253	1	06/07/2018 09:46	WG1119416
4,4-DDE	U		0.000209	0.0253	1	06/07/2018 09:46	WG1119416
4,4-DDT	U		0.000336	0.0253	1	06/07/2018 09:46	WG1119416
Dieldrin	U		0.000112	0.00253	1	06/07/2018 09:46	WG1119416
Endosulfan I	U		0.000270	0.0253	1	06/07/2018 09:46	WG1119416
Endosulfan II	U		0.000291	0.0253	1	06/07/2018 09:46	WG1119416
Endosulfan sulfate	U		0.000215	0.0253	1	06/07/2018 09:46	WG1119416
Endrin	U		0.000277	0.0253	1	06/07/2018 09:46	WG1119416
Endrin aldehyde	U		0.000306	0.0253	1	06/07/2018 09:46	WG1119416
Endrin ketone	U		0.000201	0.0253	1	06/07/2018 09:46	WG1119416
Heptachlor	U		0.000128	0.0253	1	06/07/2018 09:46	WG1119416
Heptachlor epoxide	U		0.000478	0.0253	1	06/07/2018 09:46	WG1119416
Hexachlorobenzene	U		0.000283	0.0253	1	06/07/2018 09:46	WG1119416
Methoxychlor	U		0.000335	0.0253	1	06/07/2018 09:46	WG1119416
Chlordane	U		0.0493	0.253	1	06/07/2018 09:46	WG1119416
Toxaphene	U		0.0455	0.506	1	06/07/2018 09:46	WG1119416
(S) Decachlorobiphenyl	*63.5*			*10.0-148*		*06/07/2018 09:46*	WG1119416
(S) Tetrachloro-m-xylene	*79.0*			*21.0-146*		*06/07/2018 09:46*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.9		1	06/05/2018 12:51	WG1119704

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000292	0.0250	1	06/07/2018 09:58	WG1119416
Alpha BHC	U		0.000242	0.0250	1	06/07/2018 09:58	WG1119416
Beta BHC	U		0.000379	0.0250	1	06/07/2018 09:58	WG1119416
Delta BHC	U		0.000189	0.0250	1	06/07/2018 09:58	WG1119416
Gamma BHC	U		0.000307	0.0250	1	06/07/2018 09:58	WG1119416
4,4-DDD	U		0.000205	0.0250	1	06/07/2018 09:58	WG1119416
4,4-DDE	U		0.000207	0.0250	1	06/07/2018 09:58	WG1119416
4,4-DDT	U		0.000333	0.0250	1	06/07/2018 09:58	WG1119416
Dieldrin	U		0.000111	0.00250	1	06/07/2018 09:58	WG1119416
Endosulfan I	U		0.000268	0.0250	1	06/07/2018 09:58	WG1119416
Endosulfan II	U		0.000288	0.0250	1	06/07/2018 09:58	WG1119416
Endosulfan sulfate	U		0.000213	0.0250	1	06/07/2018 09:58	WG1119416
Endrin	U		0.000274	0.0250	1	06/07/2018 09:58	WG1119416
Endrin aldehyde	U		0.000303	0.0250	1	06/07/2018 09:58	WG1119416
Endrin ketone	U		0.000199	0.0250	1	06/07/2018 09:58	WG1119416
Heptachlor	U		0.000126	0.0250	1	06/07/2018 09:58	WG1119416
Heptachlor epoxide	U		0.000473	0.0250	1	06/07/2018 09:58	WG1119416
Hexachlorobenzene	U		0.000281	0.0250	1	06/07/2018 09:58	WG1119416
Methoxychlor	U		0.000332	0.0250	1	06/07/2018 09:58	WG1119416
Chlordane	U		0.0488	0.250	1	06/07/2018 09:58	WG1119416
Toxaphene	U		0.0451	0.501	1	06/07/2018 09:58	WG1119416
(S) Decachlorobiphenyl	*68.6*			*10.0-148*		*06/07/2018 09:58*	WG1119416
(S) Tetrachloro-m-xylene	*86.0*			*21.0-146*		*06/07/2018 09:58*	WG1119416

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.1		1	06/05/2018 12:51	WG1119704

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000310	0.0266	1	06/07/2018 10:11	WG1119416
Alpha BHC	U		0.000257	0.0266	1	06/07/2018 10:11	WG1119416
Beta BHC	U		0.000404	0.0266	1	06/07/2018 10:11	WG1119416
Delta BHC	U		0.000201	0.0266	1	06/07/2018 10:11	WG1119416
Gamma BHC	U		0.000326	0.0266	1	06/07/2018 10:11	WG1119416
4,4-DDD	U		0.000218	0.0266	1	06/07/2018 10:11	WG1119416
4,4-DDE	U		0.000220	0.0266	1	06/07/2018 10:11	WG1119416
4,4-DDT	U		0.000354	0.0266	1	06/07/2018 10:11	WG1119416
Dieldrin	U		0.000119	0.00266	1	06/07/2018 10:11	WG1119416
Endosulfan I	U		0.000285	0.0266	1	06/07/2018 10:11	WG1119416
Endosulfan II	U		0.000306	0.0266	1	06/07/2018 10:11	WG1119416
Endosulfan sulfate	U		0.000226	0.0266	1	06/07/2018 10:11	WG1119416
Endrin	U		0.000292	0.0266	1	06/07/2018 10:11	WG1119416
Endrin aldehyde	U		0.000322	0.0266	1	06/07/2018 10:11	WG1119416
Endrin ketone	U		0.000212	0.0266	1	06/07/2018 10:11	WG1119416
Heptachlor	U		0.000135	0.0266	1	06/07/2018 10:11	WG1119416
Heptachlor epoxide	U		0.000504	0.0266	1	06/07/2018 10:11	WG1119416
Hexachlorobenzene	U		0.000298	0.0266	1	06/07/2018 10:11	WG1119416
Methoxychlor	U		0.000353	0.0266	1	06/07/2018 10:11	WG1119416
Chlordane	U		0.0520	0.266	1	06/07/2018 10:11	WG1119416
Toxaphene	U		0.0480	0.533	1	06/07/2018 10:11	WG1119416
(S) Decachlorobiphenyl	*66.2*			*10.0-148*		*06/07/2018 10:11*	WG1119416
(S) Tetrachloro-m-xylene	*81.8*			*21.0-146*		*06/07/2018 10:11*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.9		1	06/05/2018 12:51	WG1119704

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000320	0.0274	1	06/07/2018 10:23	WG1119416
Alpha BHC	U		0.000265	0.0274	1	06/07/2018 10:23	WG1119416
Beta BHC	U		0.000416	0.0274	1	06/07/2018 10:23	WG1119416
Delta BHC	U		0.000207	0.0274	1	06/07/2018 10:23	WG1119416
Gamma BHC	U		0.000336	0.0274	1	06/07/2018 10:23	WG1119416
4,4-DDD	U		0.000225	0.0274	1	06/07/2018 10:23	WG1119416
4,4-DDE	U		0.000226	0.0274	1	06/07/2018 10:23	WG1119416
4,4-DDT	U		0.000365	0.0274	1	06/07/2018 10:23	WG1119416
Dieldrin	U		0.000122	0.00274	1	06/07/2018 10:23	WG1119416
Endosulfan I	U		0.000294	0.0274	1	06/07/2018 10:23	WG1119416
Endosulfan II	U		0.000316	0.0274	1	06/07/2018 10:23	WG1119416
Endosulfan sulfate	U		0.000233	0.0274	1	06/07/2018 10:23	WG1119416
Endrin	U		0.000301	0.0274	1	06/07/2018 10:23	WG1119416
Endrin aldehyde	U		0.000332	0.0274	1	06/07/2018 10:23	WG1119416
Endrin ketone	U		0.000218	0.0274	1	06/07/2018 10:23	WG1119416
Heptachlor	U		0.000139	0.0274	1	06/07/2018 10:23	WG1119416
Heptachlor epoxide	U		0.000519	0.0274	1	06/07/2018 10:23	WG1119416
Hexachlorobenzene	U		0.000307	0.0274	1	06/07/2018 10:23	WG1119416
Methoxychlor	U		0.000364	0.0274	1	06/07/2018 10:23	WG1119416
Chlordane	U		0.0535	0.274	1	06/07/2018 10:23	WG1119416
Toxaphene	U		0.0494	0.549	1	06/07/2018 10:23	WG1119416
(S) Decachlorobiphenyl	*67.8*			*10.0-148*		*06/07/2018 10:23*	WG1119416
(S) Tetrachloro-m-xylene	*80.7*			*21.0-146*		*06/07/2018 10:23*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	61.6		1	06/05/2018 12:51	WG1119704

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000378	0.0325	1	06/07/2018 10:35	WG1119416
Alpha BHC	U		0.000313	0.0325	1	06/07/2018 10:35	WG1119416
Beta BHC	U		0.000492	0.0325	1	06/07/2018 10:35	WG1119416
Delta BHC	U		0.000245	0.0325	1	06/07/2018 10:35	WG1119416
Gamma BHC	U		0.000398	0.0325	1	06/07/2018 10:35	WG1119416
4,4-DDD	U		0.000266	0.0325	1	06/07/2018 10:35	WG1119416
4,4-DDE	U		0.000268	0.0325	1	06/07/2018 10:35	WG1119416
4,4-DDT	U		0.000432	0.0325	1	06/07/2018 10:35	WG1119416
Dieldrin	U		0.000145	0.00325	1	06/07/2018 10:35	WG1119416
Endosulfan I	U		0.000348	0.0325	1	06/07/2018 10:35	WG1119416
Endosulfan II	U		0.000374	0.0325	1	06/07/2018 10:35	WG1119416
Endosulfan sulfate	U		0.000276	0.0325	1	06/07/2018 10:35	WG1119416
Endrin	U		0.000356	0.0325	1	06/07/2018 10:35	WG1119416
Endrin aldehyde	U		0.000393	0.0325	1	06/07/2018 10:35	WG1119416
Endrin ketone	U		0.000258	0.0325	1	06/07/2018 10:35	WG1119416
Heptachlor	U		0.000164	0.0325	1	06/07/2018 10:35	WG1119416
Heptachlor epoxide	U		0.000614	0.0325	1	06/07/2018 10:35	WG1119416
Hexachlorobenzene	U		0.000364	0.0325	1	06/07/2018 10:35	WG1119416
Methoxychlor	U		0.000430	0.0325	1	06/07/2018 10:35	WG1119416
Chlordane	U		0.0633	0.325	1	06/07/2018 10:35	WG1119416
Toxaphene	U		0.0585	0.650	1	06/07/2018 10:35	WG1119416
(S) Decachlorobiphenyl	*49.5*			*10.0-148*		*06/07/2018 10:35*	WG1119416
(S) Tetrachloro-m-xylene	*70.3*			*21.0-146*		*06/07/2018 10:35*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.6		1	06/05/2018 12:51	WG1119704

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.46		0.895	2.75	1	06/05/2018 21:04	WG1119324
Lead	23.9		0.262	0.688	1	06/05/2018 21:04	WG1119324

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000321	0.0275	1	06/06/2018 14:52	WG1119415
Alpha BHC	U		0.000266	0.0275	1	06/06/2018 14:52	WG1119415
Beta BHC	U		0.000417	0.0275	1	06/06/2018 14:52	WG1119415
Delta BHC	U		0.000208	0.0275	1	06/06/2018 14:52	WG1119415
Gamma BHC	U		0.000337	0.0275	1	06/06/2018 14:52	WG1119415
4,4-DDD	U		0.000226	0.0275	1	06/06/2018 14:52	WG1119415
4,4-DDE	U		0.000227	0.0275	1	06/06/2018 14:52	WG1119415
4,4-DDT	U		0.000366	0.0275	1	06/06/2018 14:52	WG1119415
Dieldrin	U		0.000123	0.00275	1	06/06/2018 14:52	WG1119415
Endosulfan I	U		0.000295	0.0275	1	06/06/2018 14:52	WG1119415
Endosulfan II	U		0.000317	0.0275	1	06/06/2018 14:52	WG1119415
Endosulfan sulfate	U		0.000234	0.0275	1	06/06/2018 14:52	WG1119415
Endrin	U		0.000302	0.0275	1	06/06/2018 14:52	WG1119415
Endrin aldehyde	U		0.000333	0.0275	1	06/06/2018 14:52	WG1119415
Endrin ketone	U		0.000219	0.0275	1	06/06/2018 14:52	WG1119415
Heptachlor	U		0.000139	0.0275	1	06/06/2018 14:52	WG1119415
Heptachlor epoxide	U		0.000520	0.0275	1	06/06/2018 14:52	WG1119415
Hexachlorobenzene	U		0.000308	0.0275	1	06/06/2018 14:52	WG1119415
Methoxychlor	U		0.000365	0.0275	1	06/06/2018 14:52	WG1119415
Chlordane	U		0.0537	0.275	1	06/06/2018 14:52	WG1119415
Toxaphene	U		0.0496	0.551	1	06/06/2018 14:52	WG1119415
(S) Decachlorobiphenyl	*69.0*			*10.0-148*		*06/06/2018 14:52*	WG1119415
(S) Tetrachloro-m-xylene	*74.4*			*21.0-146*		*06/06/2018 14:52*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00482	0.0234	1	06/06/2018 16:32	WG1119415
PCB 1221	U		0.00739	0.0234	1	06/06/2018 16:32	WG1119415
PCB 1232	U		0.00574	0.0234	1	06/06/2018 16:32	WG1119415
PCB 1242	U		0.00438	0.0234	1	06/06/2018 16:32	WG1119415
PCB 1248	U		0.00434	0.0234	1	06/06/2018 16:32	WG1119415
PCB 1254	U		0.00650	0.0234	1	06/06/2018 16:32	WG1119415
PCB 1260	U		0.00680	0.0234	1	06/06/2018 16:32	WG1119415
(S) Decachlorobiphenyl	*97.5*			*10.0-148*		*06/06/2018 16:32*	WG1119415
(S) Tetrachloro-m-xylene	*89.1*			*21.0-146*		*06/06/2018 16:32*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.8		1	06/05/2018 12:51	WG1119704

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000324	0.0279	1	06/07/2018 10:48	WG1119416
Alpha BHC	U		0.000269	0.0279	1	06/07/2018 10:48	WG1119416
Beta BHC	U		0.000422	0.0279	1	06/07/2018 10:48	WG1119416
Delta BHC	U		0.000210	0.0279	1	06/07/2018 10:48	WG1119416
Gamma BHC	U		0.000341	0.0279	1	06/07/2018 10:48	WG1119416
4,4-DDD	U		0.000228	0.0279	1	06/07/2018 10:48	WG1119416
4,4-DDE	U		0.000230	0.0279	1	06/07/2018 10:48	WG1119416
4,4-DDT	U		0.000370	0.0279	1	06/07/2018 10:48	WG1119416
Dieldrin	U		0.000124	0.00279	1	06/07/2018 10:48	WG1119416
Endosulfan I	U		0.000298	0.0279	1	06/07/2018 10:48	WG1119416
Endosulfan II	U		0.000320	0.0279	1	06/07/2018 10:48	WG1119416
Endosulfan sulfate	U		0.000237	0.0279	1	06/07/2018 10:48	WG1119416
Endrin	U		0.000305	0.0279	1	06/07/2018 10:48	WG1119416
Endrin aldehyde	U		0.000337	0.0279	1	06/07/2018 10:48	WG1119416
Endrin ketone	U		0.000221	0.0279	1	06/07/2018 10:48	WG1119416
Heptachlor	U		0.000141	0.0279	1	06/07/2018 10:48	WG1119416
Heptachlor epoxide	U		0.000526	0.0279	1	06/07/2018 10:48	WG1119416
Hexachlorobenzene	0.00189	J	0.000312	0.0279	1	06/07/2018 10:48	WG1119416
Methoxychlor	U		0.000369	0.0279	1	06/07/2018 10:48	WG1119416
Chlordane	U		0.0543	0.279	1	06/07/2018 10:48	WG1119416
Toxaphene	U		0.0501	0.557	1	06/07/2018 10:48	WG1119416
(S) Decachlorobiphenyl	*65.6*			*10.0-148*		*06/07/2018 10:48*	WG1119416
(S) Tetrachloro-m-xylene	*77.9*			*21.0-146*		*06/07/2018 10:48*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.0		1	06/05/2018 12:51	WG1119704

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000281	0.0241	1	06/07/2018 11:00	WG1119416
Alpha BHC	U		0.000233	0.0241	1	06/07/2018 11:00	WG1119416
Beta BHC	U		0.000365	0.0241	1	06/07/2018 11:00	WG1119416
Delta BHC	U		0.000182	0.0241	1	06/07/2018 11:00	WG1119416
Gamma BHC	U		0.000295	0.0241	1	06/07/2018 11:00	WG1119416
4,4-DDD	U		0.000198	0.0241	1	06/07/2018 11:00	WG1119416
4,4-DDE	U		0.000199	0.0241	1	06/07/2018 11:00	WG1119416
4,4-DDT	U		0.000321	0.0241	1	06/07/2018 11:00	WG1119416
Dieldrin	U		0.000107	0.00241	1	06/07/2018 11:00	WG1119416
Endosulfan I	U		0.000258	0.0241	1	06/07/2018 11:00	WG1119416
Endosulfan II	U		0.000277	0.0241	1	06/07/2018 11:00	WG1119416
Endosulfan sulfate	U		0.000205	0.0241	1	06/07/2018 11:00	WG1119416
Endrin	U		0.000264	0.0241	1	06/07/2018 11:00	WG1119416
Endrin aldehyde	U		0.000292	0.0241	1	06/07/2018 11:00	WG1119416
Endrin ketone	U		0.000192	0.0241	1	06/07/2018 11:00	WG1119416
Heptachlor	U		0.000122	0.0241	1	06/07/2018 11:00	WG1119416
Heptachlor epoxide	U		0.000456	0.0241	1	06/07/2018 11:00	WG1119416
Hexachlorobenzene	U		0.000270	0.0241	1	06/07/2018 11:00	WG1119416
Methoxychlor	U		0.000319	0.0241	1	06/07/2018 11:00	WG1119416
Chlordane	U		0.0470	0.241	1	06/07/2018 11:00	WG1119416
Toxaphene	U		0.0434	0.482	1	06/07/2018 11:00	WG1119416
(S) Decachlorobiphenyl	*53.0*			*10.0-148*		*06/07/2018 11:00*	WG1119416
(S) Tetrachloro-m-xylene	*61.7*			*21.0-146*		*06/07/2018 11:00*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.3		1	06/05/2018 09:18	WG1119705

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000298	0.0255	1	06/07/2018 11:13	WG1119416
Alpha BHC	U		0.000247	0.0255	1	06/07/2018 11:13	WG1119416
Beta BHC	U		0.000387	0.0255	1	06/07/2018 11:13	WG1119416
Delta BHC	U		0.000193	0.0255	1	06/07/2018 11:13	WG1119416
Gamma BHC	U		0.000313	0.0255	1	06/07/2018 11:13	WG1119416
4,4-DDD	U		0.000210	0.0255	1	06/07/2018 11:13	WG1119416
4,4-DDE	U		0.000211	0.0255	1	06/07/2018 11:13	WG1119416
4,4-DDT	U		0.000340	0.0255	1	06/07/2018 11:13	WG1119416
Dieldrin	U		0.000114	0.00255	1	06/07/2018 11:13	WG1119416
Endosulfan I	U		0.000273	0.0255	1	06/07/2018 11:13	WG1119416
Endosulfan II	U		0.000294	0.0255	1	06/07/2018 11:13	WG1119416
Endosulfan sulfate	U		0.000217	0.0255	1	06/07/2018 11:13	WG1119416
Endrin	U		0.000280	0.0255	1	06/07/2018 11:13	WG1119416
Endrin aldehyde	U		0.000309	0.0255	1	06/07/2018 11:13	WG1119416
Endrin ketone	U		0.000203	0.0255	1	06/07/2018 11:13	WG1119416
Heptachlor	U		0.000129	0.0255	1	06/07/2018 11:13	WG1119416
Heptachlor epoxide	U		0.000483	0.0255	1	06/07/2018 11:13	WG1119416
Hexachlorobenzene	U		0.000286	0.0255	1	06/07/2018 11:13	WG1119416
Methoxychlor	U		0.000339	0.0255	1	06/07/2018 11:13	WG1119416
Chlordane	U		0.0498	0.255	1	06/07/2018 11:13	WG1119416
Toxaphene	U		0.0460	0.511	1	06/07/2018 11:13	WG1119416
(S) Decachlorobiphenyl	*67.4*			*10.0-148*		*06/07/2018 11:13*	WG1119416
(S) Tetrachloro-m-xylene	*78.4*			*21.0-146*		*06/07/2018 11:13*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.4		1	06/05/2018 09:18	WG1119705

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000313	0.0269	1	06/07/2018 11:25	WG1119416
Alpha BHC	U		0.000259	0.0269	1	06/07/2018 11:25	WG1119416
Beta BHC	U		0.000407	0.0269	1	06/07/2018 11:25	WG1119416
Delta BHC	U		0.000203	0.0269	1	06/07/2018 11:25	WG1119416
Gamma BHC	U		0.000329	0.0269	1	06/07/2018 11:25	WG1119416
4,4-DDD	U		0.000220	0.0269	1	06/07/2018 11:25	WG1119416
4,4-DDE	U		0.000222	0.0269	1	06/07/2018 11:25	WG1119416
4,4-DDT	U		0.000357	0.0269	1	06/07/2018 11:25	WG1119416
Dieldrin	U		0.000120	0.00269	1	06/07/2018 11:25	WG1119416
Endosulfan I	U		0.000287	0.0269	1	06/07/2018 11:25	WG1119416
Endosulfan II	U		0.000309	0.0269	1	06/07/2018 11:25	WG1119416
Endosulfan sulfate	U		0.000228	0.0269	1	06/07/2018 11:25	WG1119416
Endrin	U		0.000294	0.0269	1	06/07/2018 11:25	WG1119416
Endrin aldehyde	U		0.000325	0.0269	1	06/07/2018 11:25	WG1119416
Endrin ketone	U		0.000214	0.0269	1	06/07/2018 11:25	WG1119416
Heptachlor	U		0.000136	0.0269	1	06/07/2018 11:25	WG1119416
Heptachlor epoxide	U		0.000508	0.0269	1	06/07/2018 11:25	WG1119416
Hexachlorobenzene	U		0.000301	0.0269	1	06/07/2018 11:25	WG1119416
Methoxychlor	U		0.000356	0.0269	1	06/07/2018 11:25	WG1119416
Chlordane	U		0.0524	0.269	1	06/07/2018 11:25	WG1119416
Toxaphene	U		0.0484	0.537	1	06/07/2018 11:25	WG1119416
(S) Decachlorobiphenyl	*67.9*			*10.0-148*		*06/07/2018 11:25*	WG1119416
(S) Tetrachloro-m-xylene	*79.0*			*21.0-146*		*06/07/2018 11:25*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.6		1	06/05/2018 09:18	WG1119705

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000312	0.0268	1	06/06/2018 13:08	WG1119416
Alpha BHC	U		0.000259	0.0268	1	06/06/2018 13:08	WG1119416
Beta BHC	U		0.000406	0.0268	1	06/06/2018 13:08	WG1119416
Delta BHC	U		0.000202	0.0268	1	06/06/2018 13:08	WG1119416
Gamma BHC	U		0.000328	0.0268	1	06/06/2018 13:08	WG1119416
4,4-DDD	U		0.000220	0.0268	1	06/06/2018 13:08	WG1119416
4,4-DDE	U		0.000221	0.0268	1	06/06/2018 13:08	WG1119416
4,4-DDT	U		0.000356	0.0268	1	06/06/2018 13:08	WG1119416
Dieldrin	U		0.000119	0.00268	1	06/06/2018 13:08	WG1119416
Endosulfan I	U		0.000287	0.0268	1	06/06/2018 13:08	WG1119416
Endosulfan II	U		0.000308	0.0268	1	06/06/2018 13:08	WG1119416
Endosulfan sulfate	U		0.000228	0.0268	1	06/06/2018 13:08	WG1119416
Endrin	U		0.000293	0.0268	1	06/06/2018 13:08	WG1119416
Endrin aldehyde	U		0.000324	0.0268	1	06/06/2018 13:08	WG1119416
Endrin ketone	U		0.000213	0.0268	1	06/06/2018 13:08	WG1119416
Heptachlor	U		0.000135	0.0268	1	06/06/2018 13:08	WG1119416
Heptachlor epoxide	U		0.000507	0.0268	1	06/06/2018 13:08	WG1119416
Hexachlorobenzene	U		0.000300	0.0268	1	06/06/2018 13:08	WG1119416
Methoxychlor	U		0.000355	0.0268	1	06/06/2018 13:08	WG1119416
Chlordane	U		0.0523	0.268	1	06/06/2018 13:08	WG1119416
Toxaphene	U		0.0482	0.536	1	06/06/2018 13:08	WG1119416
(S) Decachlorobiphenyl	*66.9*			*10.0-148*		*06/06/2018 13:08*	WG1119416
(S) Tetrachloro-m-xylene	*84.9*			*21.0-146*		*06/06/2018 13:08*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.9		1	06/05/2018 09:18	WG1119705

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000324	0.0278	1	06/07/2018 11:38	WG1119416
Alpha BHC	U		0.000268	0.0278	1	06/07/2018 11:38	WG1119416
Beta BHC	U		0.000421	0.0278	1	06/07/2018 11:38	WG1119416
Delta BHC	U		0.000210	0.0278	1	06/07/2018 11:38	WG1119416
Gamma BHC	U		0.000341	0.0278	1	06/07/2018 11:38	WG1119416
4,4-DDD	U		0.000228	0.0278	1	06/07/2018 11:38	WG1119416
4,4-DDE	U		0.000229	0.0278	1	06/07/2018 11:38	WG1119416
4,4-DDT	U		0.000370	0.0278	1	06/07/2018 11:38	WG1119416
Dieldrin	U		0.000124	0.00278	1	06/07/2018 11:38	WG1119416
Endosulfan I	U		0.000297	0.0278	1	06/07/2018 11:38	WG1119416
Endosulfan II	U		0.000320	0.0278	1	06/07/2018 11:38	WG1119416
Endosulfan sulfate	U		0.000236	0.0278	1	06/07/2018 11:38	WG1119416
Endrin	U		0.000304	0.0278	1	06/07/2018 11:38	WG1119416
Endrin aldehyde	U		0.000336	0.0278	1	06/07/2018 11:38	WG1119416
Endrin ketone	U		0.000221	0.0278	1	06/07/2018 11:38	WG1119416
Heptachlor	U		0.000140	0.0278	1	06/07/2018 11:38	WG1119416
Heptachlor epoxide	U		0.000525	0.0278	1	06/07/2018 11:38	WG1119416
Hexachlorobenzene	U		0.000311	0.0278	1	06/07/2018 11:38	WG1119416
Methoxychlor	U		0.000368	0.0278	1	06/07/2018 11:38	WG1119416
Chlordane	U		0.0542	0.278	1	06/07/2018 11:38	WG1119416
Toxaphene	U		0.0500	0.556	1	06/07/2018 11:38	WG1119416
(S) Decachlorobiphenyl	*54.5*			*10.0-148*		*06/07/2018 11:38*	WG1119416
(S) Tetrachloro-m-xylene	*66.6*			*21.0-146*		*06/07/2018 11:38*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.2		1	06/05/2018 09:18	WG1119705

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000306	0.0262	1	06/07/2018 11:50	WG1119416
Alpha BHC	U		0.000253	0.0262	1	06/07/2018 11:50	WG1119416
Beta BHC	U		0.000398	0.0262	1	06/07/2018 11:50	WG1119416
Delta BHC	U		0.000198	0.0262	1	06/07/2018 11:50	WG1119416
Gamma BHC	U		0.000322	0.0262	1	06/07/2018 11:50	WG1119416
4,4-DDD	U		0.000215	0.0262	1	06/07/2018 11:50	WG1119416
4,4-DDE	U		0.000217	0.0262	1	06/07/2018 11:50	WG1119416
4,4-DDT	U		0.000349	0.0262	1	06/07/2018 11:50	WG1119416
Dieldrin	U		0.000117	0.00262	1	06/07/2018 11:50	WG1119416
Endosulfan I	U		0.000281	0.0262	1	06/07/2018 11:50	WG1119416
Endosulfan II	U		0.000302	0.0262	1	06/07/2018 11:50	WG1119416
Endosulfan sulfate	U		0.000223	0.0262	1	06/07/2018 11:50	WG1119416
Endrin	U		0.000287	0.0262	1	06/07/2018 11:50	WG1119416
Endrin aldehyde	U		0.000318	0.0262	1	06/07/2018 11:50	WG1119416
Endrin ketone	U		0.000209	0.0262	1	06/07/2018 11:50	WG1119416
Heptachlor	U		0.000133	0.0262	1	06/07/2018 11:50	WG1119416
Heptachlor epoxide	U		0.000496	0.0262	1	06/07/2018 11:50	WG1119416
Hexachlorobenzene	U		0.000294	0.0262	1	06/07/2018 11:50	WG1119416
Methoxychlor	U		0.000348	0.0262	1	06/07/2018 11:50	WG1119416
Chlordane	U		0.0512	0.262	1	06/07/2018 11:50	WG1119416
Toxaphene	U		0.0472	0.525	1	06/07/2018 11:50	WG1119416
(S) Decachlorobiphenyl	*65.7*			*10.0-148*		*06/07/2018 11:50*	WG1119416
(S) Tetrachloro-m-xylene	*76.9*			*21.0-146*		*06/07/2018 11:50*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.2		1	06/05/2018 09:18	WG1119705

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.86		0.831	2.56	1	06/05/2018 21:06	WG1119324
Lead	11.6		0.243	0.639	1	06/05/2018 21:06	WG1119324

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000298	0.0256	1	06/06/2018 13:24	WG1119415
Alpha BHC	U		0.000247	0.0256	1	06/06/2018 13:24	WG1119415
Beta BHC	U		0.000387	0.0256	1	06/06/2018 13:24	WG1119415
Delta BHC	U		0.000193	0.0256	1	06/06/2018 13:24	WG1119415
Gamma BHC	U		0.000313	0.0256	1	06/06/2018 13:24	WG1119415
4,4-DDD	U		0.000210	0.0256	1	06/06/2018 13:24	WG1119415
4,4-DDE	U		0.000211	0.0256	1	06/06/2018 13:24	WG1119415
4,4-DDT	U		0.000340	0.0256	1	06/06/2018 13:24	WG1119415
Dieldrin	U		0.000114	0.00256	1	06/06/2018 13:24	WG1119415
Endosulfan I	U		0.000274	0.0256	1	06/06/2018 13:24	WG1119415
Endosulfan II	U		0.000294	0.0256	1	06/06/2018 13:24	WG1119415
Endosulfan sulfate	U		0.000217	0.0256	1	06/06/2018 13:24	WG1119415
Endrin	U		0.000280	0.0256	1	06/06/2018 13:24	WG1119415
Endrin aldehyde	U		0.000309	0.0256	1	06/06/2018 13:24	WG1119415
Endrin ketone	U		0.000203	0.0256	1	06/06/2018 13:24	WG1119415
Heptachlor	U		0.000129	0.0256	1	06/06/2018 13:24	WG1119415
Heptachlor epoxide	U		0.000483	0.0256	1	06/06/2018 13:24	WG1119415
Hexachlorobenzene	U		0.000286	0.0256	1	06/06/2018 13:24	WG1119415
Methoxychlor	U		0.000339	0.0256	1	06/06/2018 13:24	WG1119415
Chlordane	U		0.0498	0.256	1	06/06/2018 13:24	WG1119415
Toxaphene	U		0.0460	0.511	1	06/06/2018 13:24	WG1119415
(S) Decachlorobiphenyl	*71.8*			*10.0-148*		*06/06/2018 13:24*	WG1119415
(S) Tetrachloro-m-xylene	*77.1*			*21.0-146*		*06/06/2018 13:24*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00447	0.0217	1	06/06/2018 16:46	WG1119415
PCB 1221	U		0.00686	0.0217	1	06/06/2018 16:46	WG1119415
PCB 1232	U		0.00533	0.0217	1	06/06/2018 16:46	WG1119415
PCB 1242	U		0.00406	0.0217	1	06/06/2018 16:46	WG1119415
PCB 1248	U		0.00403	0.0217	1	06/06/2018 16:46	WG1119415
PCB 1254	U		0.00603	0.0217	1	06/06/2018 16:46	WG1119415
PCB 1260	U		0.00631	0.0217	1	06/06/2018 16:46	WG1119415
(S) Decachlorobiphenyl	*96.1*			*10.0-148*		*06/06/2018 16:46*	WG1119415
(S) Tetrachloro-m-xylene	*87.6*			*21.0-146*		*06/06/2018 16:46*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.7		1	06/05/2018 09:18	WG1119705

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000292	0.0251	1	06/07/2018 12:02	WG1119416
Alpha BHC	U		0.000242	0.0251	1	06/07/2018 12:02	WG1119416
Beta BHC	U		0.000380	0.0251	1	06/07/2018 12:02	WG1119416
Delta BHC	U		0.000189	0.0251	1	06/07/2018 12:02	WG1119416
Gamma BHC	U		0.000307	0.0251	1	06/07/2018 12:02	WG1119416
4,4-DDD	U		0.000206	0.0251	1	06/07/2018 12:02	WG1119416
4,4-DDE	U		0.000207	0.0251	1	06/07/2018 12:02	WG1119416
4,4-DDT	U		0.000334	0.0251	1	06/07/2018 12:02	WG1119416
Dieldrin	U		0.000112	0.00251	1	06/07/2018 12:02	WG1119416
Endosulfan I	U		0.000269	0.0251	1	06/07/2018 12:02	WG1119416
Endosulfan II	U		0.000289	0.0251	1	06/07/2018 12:02	WG1119416
Endosulfan sulfate	U		0.000213	0.0251	1	06/07/2018 12:02	WG1119416
Endrin	U		0.000275	0.0251	1	06/07/2018 12:02	WG1119416
Endrin aldehyde	U		0.000304	0.0251	1	06/07/2018 12:02	WG1119416
Endrin ketone	U		0.000200	0.0251	1	06/07/2018 12:02	WG1119416
Heptachlor	U		0.000127	0.0251	1	06/07/2018 12:02	WG1119416
Heptachlor epoxide	U		0.000474	0.0251	1	06/07/2018 12:02	WG1119416
Hexachlorobenzene	U		0.000281	0.0251	1	06/07/2018 12:02	WG1119416
Methoxychlor	U		0.000333	0.0251	1	06/07/2018 12:02	WG1119416
Chlordane	U		0.0489	0.251	1	06/07/2018 12:02	WG1119416
Toxaphene	U		0.0452	0.502	1	06/07/2018 12:02	WG1119416
(S) Decachlorobiphenyl	*72.1*			*10.0-148*		*06/07/2018 12:02*	WG1119416
(S) Tetrachloro-m-xylene	*82.7*			*21.0-146*		*06/07/2018 12:02*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.6		1	06/05/2018 09:18	WG1119705

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000296	0.0254	1	06/07/2018 12:15	WG1119416
Alpha BHC	U		0.000246	0.0254	1	06/07/2018 12:15	WG1119416
Beta BHC	U		0.000386	0.0254	1	06/07/2018 12:15	WG1119416
Delta BHC	U		0.000192	0.0254	1	06/07/2018 12:15	WG1119416
Gamma BHC	U		0.000312	0.0254	1	06/07/2018 12:15	WG1119416
4,4-DDD	U		0.000209	0.0254	1	06/07/2018 12:15	WG1119416
4,4-DDE	U		0.000210	0.0254	1	06/07/2018 12:15	WG1119416
4,4-DDT	U		0.000338	0.0254	1	06/07/2018 12:15	WG1119416
Dieldrin	U		0.000113	0.00254	1	06/07/2018 12:15	WG1119416
Endosulfan I	U		0.000272	0.0254	1	06/07/2018 12:15	WG1119416
Endosulfan II	U		0.000293	0.0254	1	06/07/2018 12:15	WG1119416
Endosulfan sulfate	U		0.000216	0.0254	1	06/07/2018 12:15	WG1119416
Endrin	U		0.000279	0.0254	1	06/07/2018 12:15	WG1119416
Endrin aldehyde	U		0.000308	0.0254	1	06/07/2018 12:15	WG1119416
Endrin ketone	U		0.000202	0.0254	1	06/07/2018 12:15	WG1119416
Heptachlor	U		0.000129	0.0254	1	06/07/2018 12:15	WG1119416
Heptachlor epoxide	U		0.000481	0.0254	1	06/07/2018 12:15	WG1119416
Hexachlorobenzene	U		0.000285	0.0254	1	06/07/2018 12:15	WG1119416
Methoxychlor	U		0.000337	0.0254	1	06/07/2018 12:15	WG1119416
Chlordane	U		0.0496	0.254	1	06/07/2018 12:15	WG1119416
Toxaphene	U		0.0458	0.509	1	06/07/2018 12:15	WG1119416
(S) Decachlorobiphenyl	*68.2*			*10.0-148*		*06/07/2018 12:15*	WG1119416
(S) Tetrachloro-m-xylene	*80.4*			*21.0-146*		*06/07/2018 12:15*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.7		1	06/05/2018 09:18	WG1119705

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000321	0.0275	1	06/07/2018 12:27	WG1119416
Alpha BHC	U		0.000266	0.0275	1	06/07/2018 12:27	WG1119416
Beta BHC	U		0.000417	0.0275	1	06/07/2018 12:27	WG1119416
Delta BHC	U		0.000208	0.0275	1	06/07/2018 12:27	WG1119416
Gamma BHC	U		0.000337	0.0275	1	06/07/2018 12:27	WG1119416
4,4-DDD	U		0.000226	0.0275	1	06/07/2018 12:27	WG1119416
4,4-DDE	U		0.000227	0.0275	1	06/07/2018 12:27	WG1119416
4,4-DDT	U		0.000366	0.0275	1	06/07/2018 12:27	WG1119416
Dieldrin	U		0.000122	0.00275	1	06/07/2018 12:27	WG1119416
Endosulfan I	U		0.000294	0.0275	1	06/07/2018 12:27	WG1119416
Endosulfan II	U		0.000316	0.0275	1	06/07/2018 12:27	WG1119416
Endosulfan sulfate	U		0.000234	0.0275	1	06/07/2018 12:27	WG1119416
Endrin	U		0.000301	0.0275	1	06/07/2018 12:27	WG1119416
Endrin aldehyde	U		0.000333	0.0275	1	06/07/2018 12:27	WG1119416
Endrin ketone	U		0.000219	0.0275	1	06/07/2018 12:27	WG1119416
Heptachlor	U		0.000139	0.0275	1	06/07/2018 12:27	WG1119416
Heptachlor epoxide	U		0.000520	0.0275	1	06/07/2018 12:27	WG1119416
Hexachlorobenzene	U		0.000308	0.0275	1	06/07/2018 12:27	WG1119416
Methoxychlor	U		0.000365	0.0275	1	06/07/2018 12:27	WG1119416
Chlordane	U		0.0537	0.275	1	06/07/2018 12:27	WG1119416
Toxaphene	U		0.0495	0.550	1	06/07/2018 12:27	WG1119416
(S) Decachlorobiphenyl	*73.7*			*10.0-148*		*06/07/2018 12:27*	WG1119416
(S) Tetrachloro-m-xylene	*86.7*			*21.0-146*		*06/07/2018 12:27*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.6		1	06/05/2018 09:18	WG1119705

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000325	0.0279	1	06/07/2018 12:40	WG1119416
Alpha BHC	U		0.000270	0.0279	1	06/07/2018 12:40	WG1119416
Beta BHC	U		0.000423	0.0279	1	06/07/2018 12:40	WG1119416
Delta BHC	U		0.000211	0.0279	1	06/07/2018 12:40	WG1119416
Gamma BHC	U		0.000342	0.0279	1	06/07/2018 12:40	WG1119416
4,4-DDD	U		0.000229	0.0279	1	06/07/2018 12:40	WG1119416
4,4-DDE	U		0.000230	0.0279	1	06/07/2018 12:40	WG1119416
4,4-DDT	U		0.000372	0.0279	1	06/07/2018 12:40	WG1119416
Dieldrin	U		0.000124	0.00279	1	06/07/2018 12:40	WG1119416
Endosulfan I	U		0.000299	0.0279	1	06/07/2018 12:40	WG1119416
Endosulfan II	U		0.000321	0.0279	1	06/07/2018 12:40	WG1119416
Endosulfan sulfate	U		0.000237	0.0279	1	06/07/2018 12:40	WG1119416
Endrin	U		0.000306	0.0279	1	06/07/2018 12:40	WG1119416
Endrin aldehyde	U		0.000338	0.0279	1	06/07/2018 12:40	WG1119416
Endrin ketone	U		0.000222	0.0279	1	06/07/2018 12:40	WG1119416
Heptachlor	U		0.000141	0.0279	1	06/07/2018 12:40	WG1119416
Heptachlor epoxide	U		0.000528	0.0279	1	06/07/2018 12:40	WG1119416
Hexachlorobenzene	U		0.000313	0.0279	1	06/07/2018 12:40	WG1119416
Methoxychlor	U		0.000370	0.0279	1	06/07/2018 12:40	WG1119416
Chlordane	U		0.0545	0.279	1	06/07/2018 12:40	WG1119416
Toxaphene	U		0.0503	0.559	1	06/07/2018 12:40	WG1119416
(S) Decachlorobiphenyl	*66.9*			*10.0-148*		*06/07/2018 12:40*	WG1119416
(S) Tetrachloro-m-xylene	*78.3*			*21.0-146*		*06/07/2018 12:40*	WG1119416

Method Blank (MB)

(MB) R3315317-1 06/04/18 13:21

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L998267-01 Original Sample (OS) • Duplicate (DUP)

(OS) L998267-01 06/04/18 13:21 • (DUP) R3315317-3 06/04/18 13:21

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.4	91.2	1	1.27		5

Laboratory Control Sample (LCS)

(LCS) R3315317-2 06/04/18 13:21

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3315693-1 06/05/18 12:36

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

L998212-01 Original Sample (OS) • Duplicate (DUP)

(OS) L998212-01 06/05/18 12:36 • (DUP) R3315693-3 06/05/18 12:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	92.7	93.3	1	0.656		5

Laboratory Control Sample (LCS)

(LCS) R3315693-2 06/05/18 12:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3315698-1 06/05/18 12:51

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L998248-16 Original Sample (OS) • Duplicate (DUP)

(OS) L998248-16 06/05/18 12:51 • (DUP) R3315698-3 06/05/18 12:51

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	72.6	72.2	1	0.602		5

Laboratory Control Sample (LCS)

(LCS) R3315698-2 06/05/18 12:51

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3315666-1 06/05/18 09:18

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L998248-21 Original Sample (OS) • Duplicate (DUP)

(OS) L998248-21 06/05/18 09:18 • (DUP) R3315666-3 06/05/18 09:18

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	74.6	74.1	1	0.683		5

Laboratory Control Sample (LCS)

(LCS) R3315666-2 06/05/18 09:18

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3315650-1 06/05/18 20:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.650	2.00
Lead	U		0.190	0.500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315650-2 06/05/18 20:29 • (LCSD) R3315650-3 06/05/18 20:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	102	96.4	102	96.4	80.0-120			5.47	20
Lead	100	103	97.0	103	97.0	80.0-120			6.02	20

L998346-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998346-09 06/05/18 20:34 • (MS) R3315650-6 06/05/18 20:41 • (MSD) R3315650-7 06/05/18 20:44

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	109	4.31	107	114	94.3	101	1	75.0-125			6.33	20
Lead	109	14.0	122	138	98.9	114	1	75.0-125			12.5	20

Method Blank (MB)

(MB) R3316497-3 06/06/18 11:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*72.3*			*10.0-148*
(S) Tetrachloro-m-xylene	*73.4*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316497-1 06/06/18 10:56 • (LCSD) R3316497-2 06/06/18 11:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0468	0.0441	70.2	66.1	55.0-137			6.06	29
Alpha BHC	0.0667	0.0478	0.0446	71.7	66.8	55.0-136			6.94	28
Beta BHC	0.0667	0.0476	0.0448	71.3	67.1	53.0-133			6.08	28
Delta BHC	0.0667	0.0481	0.0463	72.0	69.4	53.0-139			3.70	29
Gamma BHC	0.0667	0.0472	0.0445	70.7	66.7	54.0-136			5.80	29
4,4-DDD	0.0667	0.0479	0.0452	71.9	67.7	51.0-141			5.89	29
4,4-DDE	0.0667	0.0448	0.0422	67.2	63.2	53.0-142			6.08	30
4,4-DDT	0.0667	0.0478	0.0463	71.6	69.4	47.0-143			3.12	30
Dieldrin	0.0667	0.0472	0.0448	70.8	67.2	54.0-141			5.19	29
Endosulfan I	0.0667	0.0449	0.0425	67.3	63.7	54.0-141			5.55	29

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316497-1 06/06/18 10:56 • (LCSD) R3316497-2 06/06/18 11:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0667	0.0476	0.0452	71.3	67.8	53.0-140			5.06	28
Endosulfan sulfate	0.0667	0.0472	0.0458	70.7	68.7	52.0-141			2.88	29
Endrin	0.0667	0.0466	0.0457	69.9	68.5	52.0-137			2.03	29
Endrin aldehyde	0.0667	0.0458	0.0439	68.7	65.9	30.0-127			4.25	31
Endrin ketone	0.0667	0.0521	0.0498	78.1	74.6	51.0-139			4.55	28
Heptachlor	0.0667	0.0471	0.0463	70.6	69.4	53.0-144			1.66	29
Heptachlor epoxide	0.0667	0.0454	0.0438	68.1	65.6	54.0-137			3.72	28
Hexachlorobenzene	0.0667	0.0441	0.0420	66.1	63.0	50.0-135			4.84	28
Methoxychlor	0.0667	0.0506	0.0491	75.8	73.6	49.0-145			2.98	29
(S) Decachlorobiphenyl				*79.2*	*76.9*	*10.0-148*				
(S) Tetrachloro-m-xylene				*76.6*	*73.4*	*21.0-146*				

L998278-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998278-01 06/06/18 16:06 • (MS) R3316497-4 06/06/18 16:21 • (MSD) R3316497-5 06/06/18 16:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0738	U	0.0425	0.0466	57.5	63.1	1	19.0-152			9.35	24
Alpha BHC	0.0738	U	0.0466	0.0507	63.1	68.6	1	39.0-152			8.50	21
Beta BHC	0.0738	U	0.0483	0.0534	65.4	72.4	1	38.0-150			10.2	20
Delta BHC	0.0738	U	0.0484	0.0542	65.5	73.4	1	34.0-155			11.4	21
Gamma BHC	0.0738	U	0.0452	0.0498	61.2	67.5	1	38.0-153			9.79	21
4,4-DDD	0.0738	U	0.0475	0.0542	64.4	73.4	1	22.0-160			13.1	25
4,4-DDE	0.0738	U	0.0400	0.0441	54.2	59.7	1	10.0-160			9.58	27
4,4-DDT	0.0738	0.00307	0.0323	0.0329	39.5	40.3	1	10.0-160			1.86	28
Dieldrin	0.0738	U	0.0431	0.0479	58.4	64.9	1	30.0-158			10.5	25
Endosulfan I	0.0738	U	0.0412	0.0458	55.8	62.0	1	31.0-155			10.6	25
Endosulfan II	0.0738	U	0.0429	0.0475	58.1	64.3	1	32.0-156			10.2	25
Endosulfan sulfate	0.0738	U	0.0449	0.0490	60.8	66.4	1	31.0-158			8.72	24
Endrin	0.0738	U	0.0449	0.0509	60.8	68.9	1	30.0-149			12.6	25
Endrin aldehyde	0.0738	U	0.0410	0.0456	55.5	61.8	1	20.0-157			10.8	26
Endrin ketone	0.0738	U	0.0463	0.0512	62.7	69.4	1	32.0-154			10.2	23
Heptachlor	0.0738	U	0.0418	0.0461	56.7	62.5	1	18.0-160			9.76	23
Heptachlor epoxide	0.0738	U	0.0431	0.0479	58.4	64.9	1	31.0-154			10.5	25
Hexachlorobenzene	0.0738	U	0.0447	0.0486	60.5	65.8	1	26.0-146			8.29	21
Methoxychlor	0.0738	U	0.0343	0.0374	46.5	50.6	1	10.0-160			8.59	27
(S) Decachlorobiphenyl					*76.5*	*82.8*		*10.0-148*				
(S) Tetrachloro-m-xylene					*62.2*	*68.0*		*21.0-146*				

Method Blank (MB)

(MB) R3316083-3 06/06/18 12:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*68.1*			*10.0-148*
(S) Tetrachloro-m-xylene	*85.2*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316083-1 06/06/18 11:54 • (LCSD) R3316083-2 06/06/18 12:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0560	0.0577	84.0	86.5	55.0-137			2.98	29
Alpha BHC	0.0667	0.0576	0.0589	86.3	88.2	55.0-136			2.19	28
Beta BHC	0.0667	0.0567	0.0581	85.0	87.2	53.0-133			2.48	28
Delta BHC	0.0667	0.0614	0.0626	92.0	93.9	53.0-139			2.00	29
Gamma BHC	0.0667	0.0625	0.0639	93.7	95.8	54.0-136			2.17	29
4,4-DDD	0.0667	0.0581	0.0595	87.1	89.2	51.0-141			2.38	29
4,4-DDE	0.0667	0.0548	0.0562	82.2	84.3	53.0-142			2.60	30
4,4-DDT	0.0667	0.0625	0.0625	93.7	93.7	47.0-143			0.00848	30
Dieldrin	0.0667	0.0570	0.0584	85.4	87.6	54.0-141			2.45	29
Endosulfan I	0.0667	0.0539	0.0561	80.9	84.2	54.0-141			4.01	29

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316083-1 06/06/18 11:54 • (LCSD) R3316083-2 06/06/18 12:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0667	0.0534	0.0546	80.0	81.8	53.0-140			2.21	28
Endosulfan sulfate	0.0667	0.0549	0.0560	82.2	84.0	52.0-141			2.06	29
Endrin	0.0667	0.0564	0.0576	84.5	86.3	52.0-137			2.12	29
Endrin aldehyde	0.0667	0.0505	0.0520	75.6	78.0	30.0-127			3.02	31
Endrin ketone	0.0667	0.0579	0.0592	86.8	88.8	51.0-139			2.27	28
Heptachlor	0.0667	0.0642	0.0652	96.2	97.7	53.0-144			1.55	29
Heptachlor epoxide	0.0667	0.0575	0.0589	86.2	88.4	54.0-137			2.48	28
Hexachlorobenzene	0.0667	0.0588	0.0604	88.2	90.6	50.0-135			2.70	28
Methoxychlor	0.0667	0.0604	0.0608	90.5	91.2	49.0-145			0.683	29
(S) Decachlorobiphenyl				*70.2*	*70.7*	*10.0-148*				
(S) Tetrachloro-m-xylene				*86.1*	*86.6*	*21.0-146*				

L998248-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998248-21 06/06/18 13:08 • (MS) R3316083-4 06/06/18 13:21 • (MSD) R3316083-5 06/06/18 13:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0894	U	0.0710	0.0641	79.4	71.8	1	19.0-152			10.1	24
Alpha BHC	0.0894	U	0.0759	0.0696	84.9	77.9	1	39.0-152			8.67	21
Beta BHC	0.0894	U	0.0744	0.0675	83.3	75.5	1	38.0-150			9.81	20
Delta BHC	0.0894	U	0.0805	0.0723	90.0	80.9	1	34.0-155			10.7	21
Gamma BHC	0.0894	U	0.0827	0.0756	92.5	84.6	1	38.0-153			8.93	21
4,4-DDD	0.0894	U	0.0735	0.0660	82.3	73.8	1	22.0-160			10.9	25
4,4-DDE	0.0894	U	0.0683	0.0612	76.4	68.4	1	10.0-160			11.0	27
4,4-DDT	0.0894	U	0.0803	0.0748	89.8	83.7	1	10.0-160			7.07	28
Dieldrin	0.0894	U	0.0727	0.0654	81.4	73.2	1	30.0-158			10.6	25
Endosulfan I	0.0894	U	0.0700	0.0629	78.3	70.4	1	31.0-155			10.7	25
Endosulfan II	0.0894	U	0.0682	0.0607	76.3	68.0	1	32.0-156			11.5	25
Endosulfan sulfate	0.0894	U	0.0706	0.0630	79.0	70.5	1	31.0-158			11.4	24
Endrin	0.0894	U	0.0746	0.0690	83.5	77.2	1	30.0-149			7.77	25
Endrin aldehyde	0.0894	U	0.0657	0.0581	73.5	65.0	1	20.0-157			12.3	26
Endrin ketone	0.0894	U	0.0739	0.0659	82.7	73.7	1	32.0-154			11.5	23
Heptachlor	0.0894	U	0.0839	0.0779	93.9	87.2	1	18.0-160			7.44	23
Heptachlor epoxide	0.0894	U	0.0743	0.0672	83.1	75.1	1	31.0-154			10.0	25
Hexachlorobenzene	0.0894	U	0.0757	0.0686	84.7	76.8	1	26.0-146			9.86	21
Methoxychlor	0.0894	U	0.0772	0.0717	86.4	80.2	1	10.0-160			7.41	27
(S) Decachlorobiphenyl					*67.6*	*61.7*		*10.0-148*				
(S) Tetrachloro-m-xylene					*84.1*	*77.9*		*21.0-146*				

Method Blank (MB)

(MB) R3316257-3 06/07/18 16:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*75.7*			*10.0-148*
(S) Tetrachloro-m-xylene	*88.5*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316257-1 06/07/18 15:45 • (LCSD) R3316257-2 06/07/18 15:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0537	0.0560	80.6	83.9	55.0-137			4.09	29
Alpha BHC	0.0667	0.0542	0.0565	81.3	84.6	55.0-136			4.00	28
Beta BHC	0.0667	0.0496	0.0518	74.4	77.7	53.0-133			4.34	28
Delta BHC	0.0667	0.0510	0.0554	76.5	83.1	53.0-139			8.28	29
Gamma BHC	0.0667	0.0523	0.0546	78.4	81.8	54.0-136			4.25	29
4,4-DDD	0.0667	0.0579	0.0609	86.8	91.3	51.0-141			5.11	29
4,4-DDE	0.0667	0.0526	0.0551	78.9	82.6	53.0-142			4.61	30
4,4-DDT	0.0667	0.0435	0.0454	65.3	68.1	47.0-143			4.17	30
Dieldrin	0.0667	0.0537	0.0563	80.5	84.4	54.0-141			4.72	29
Endosulfan I	0.0667	0.0522	0.0547	78.3	82.0	54.0-141			4.62	29

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316257-1 06/07/18 15:45 • (LCSD) R3316257-2 06/07/18 15:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0667	0.0520	0.0545	78.0	81.8	53.0-140			4.75	28
Endosulfan sulfate	0.0667	0.0510	0.0534	76.4	80.0	52.0-141			4.56	29
Endrin	0.0667	0.0526	0.0551	78.9	82.6	52.0-137			4.59	29
Endrin aldehyde	0.0667	0.0475	0.0499	71.2	74.9	30.0-127			5.02	31
Endrin ketone	0.0667	0.0526	0.0550	78.8	82.4	51.0-139			4.50	28
Heptachlor	0.0667	0.0523	0.0549	78.4	82.3	53.0-144			4.85	29
Heptachlor epoxide	0.0667	0.0521	0.0552	78.1	82.7	54.0-137			5.77	28
Hexachlorobenzene	0.0667	0.0496	0.0514	74.4	77.1	50.0-135			3.49	28
Methoxychlor	0.0667	0.0462	0.0476	69.2	71.4	49.0-145			3.17	29
(S) Decachlorobiphenyl				*69.1*	*74.9*	*10.0-148*				
(S) Tetrachloro-m-xylene				*82.6*	*89.2*	*21.0-146*				

L998648-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998648-02 06/07/18 19:26 • (MS) R3316418-1 06/07/18 19:41 • (MSD) R3316418-2 06/07/18 19:55

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0771	U	0.0689	0.0516	89.4	66.9	1	19.0-152		J3	28.8	24
Alpha BHC	0.0771	U	0.0715	0.0559	92.7	72.5	1	39.0-152		J3	24.5	21
Beta BHC	0.0771	U	0.0714	0.0566	92.6	73.4	1	38.0-150		J3	23.2	20
Delta BHC	0.0771	U	0.0726	0.0568	94.2	73.7	1	34.0-155		J3	24.4	21
Gamma BHC	0.0771	U	0.0708	0.0556	91.9	72.1	1	38.0-153		J3	24.2	21
4,4-DDD	0.0771	U	0.0779	0.0597	101	77.5	1	22.0-160		J3	26.4	25
4,4-DDE	0.0771	U	0.0718	0.0540	93.1	70.0	1	10.0-160		J3	28.3	27
4,4-DDT	0.0771	U	0.0784	0.0587	102	76.2	1	10.0-160		J3	28.7	28
Dieldrin	0.0771	U	0.0741	0.0577	96.1	74.8	1	30.0-158			24.9	25
Endosulfan I	0.0771	U	0.0684	0.0532	88.6	69.0	1	31.0-155			25.0	25
Endosulfan II	0.0771	U	0.0718	0.0559	93.1	72.5	1	32.0-156			24.9	25
Endosulfan sulfate	0.0771	U	0.0784	0.0629	102	81.6	1	31.0-158			22.0	24
Endrin	0.0771	U	0.0778	0.0609	101	79.0	1	30.0-149			24.3	25
Endrin aldehyde	0.0771	U	0.0703	0.0525	91.2	68.1	1	20.0-157		J3	29.0	26
Endrin ketone	0.0771	U	0.0850	0.0665	110	86.3	1	32.0-154		J3	24.3	23
Heptachlor	0.0771	U	0.0721	0.0545	93.6	70.6	1	18.0-160		J3	27.9	23
Heptachlor epoxide	0.0771	U	0.0704	0.0543	91.3	70.4	1	31.0-154		J3	25.9	25
Hexachlorobenzene	0.0771	U	0.0662	0.0509	85.9	66.0	1	26.0-146		J3	26.2	21
Methoxychlor	0.0771	U	0.0822	0.0619	107	80.2	1	10.0-160		J3	28.2	27
(S) Decachlorobiphenyl					*103*	*67.0*		*10.0-148*				
(S) Tetrachloro-m-xylene					*85.6*	*60.8*		*21.0-146*				

Method Blank (MB)

(MB) R3316019-1 06/06/18 14:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
(S) Decachlorobiphenyl	*97.1*			*10.0-148*
(S) Tetrachloro-m-xylene	*85.1*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316019-2 06/06/18 14:57 • (LCSD) R3316019-3 06/06/18 15:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.167	0.133	0.154	79.6	92.6	37.0-145			15.2	37
PCB 1016	0.167	0.138	0.150	82.6	89.9	36.0-141			8.43	35
(S) Decachlorobiphenyl				*82.7*	*110*	*10.0-148*				
(S) Tetrachloro-m-xylene				*83.6*	*89.0*	*21.0-146*				

L998278-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998278-01 06/06/18 17:55 • (MS) R3316019-4 06/06/18 18:08 • (MSD) R3316019-5 06/06/18 18:22

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.185	U	0.127	0.138	68.6	74.6	1	10.0-160			8.37	31
PCB 1016	0.185	U	0.132	0.133	71.4	72.0	1	17.0-160			0.738	30
(S) Decachlorobiphenyl					*69.5*	*81.1*		*10.0-148*				
(S) Tetrachloro-m-xylene					*77.8*	*74.9*		*21.0-146*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
P	RPD between the primary and confirmatory analysis exceeded 40%.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

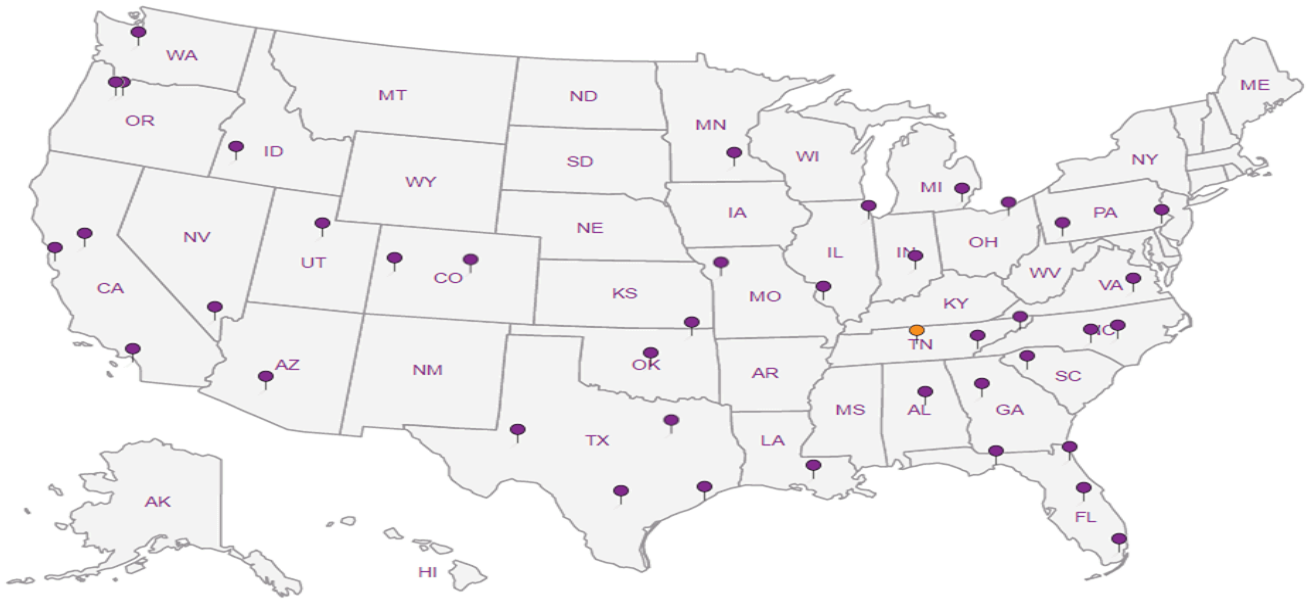
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



Set A

McCloskey Consultants Inc

Billing Information:

Pres Chk

Report to: Tom McCloskey / Chris Vertin

Email To: TomMcCloskey / ChrisVertin

Project Description: Taft Community School

City/State Collected: Redwood City CA

Phone: 925 786.2467

Fax:

Client Project #

Lab Project #

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 3

ESC LABORATORIES
a subsidiary of Pace

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L998248

B161

Table #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPs	OCPs+PCBs	Arsenic	Lead	Remarks	Sample # (lab only)
BP-1	Grab	SS	2½-3'	5/29/18	17:41	1	X					-01
~~BP-1~~												
BP-2A	Grab	SS	0-½'	5.25.18	14:42	1		X	X	X		-02
BP-2B	"	"	1	"	14:45	"		X	X	X		-03
BP-2	"	"	2-2½'	5.29.18	11:56	"	X					-04
BP-3	"	"	2-2½	"	17:10	"	X					-05
BP-4	"	"	½-2'	"	17:13	"		X	X	X		-06
BP-4	"	"	2-2½'	"	17:17	"	X					-07
BP-5	"	"	2-2½	"	16:40	"	X					-08
												-09

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other _____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4269 9210 4509

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	5/31/18	1440	ESC
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
ESC	5/31/18	1630	FedEx
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 1.2 °C Bottles Received: 24

Date: 6/1/18 Time: 8:45

If preservation required by Login: Date/Time

Hold:

Condition NCF / OK

Set A

McCloskey Consultants Inc

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 3

ESC LAB SCIENCES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L998248

Table #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Report to: Tom McCloskey / Chris Vertin

Email To: Tom McCloskey / Chris Vertin

Project Description: Taft Community School

City/State Collected: Redwood City CA

Phone: 925 786.2667

Fax:

Client Project #

Lab Project #

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPs	OCPs + PCBs	Arsenic	Lead	Remarks	Sample # (lab only)
BP-6A	Grab	SS	1½-2'	5.29.18	16:55	1		X	X	X		-09 -10
BP-6B			1½-2'		16:57			X	X	X		-10 -11
BP-6			2-2½		17:00		X					-4 -12
BP-7			2½-3'		15:24		X					-12 -13
BP-8			2½-3'		15:38		X					-13 -14
BP-9			2-2½		13:19		X					-14 -15
BP-10			2-2½		13:44		X					-15 -16
BP-11			1-1½		10:18			X	X	X		-16 -17
BP-11			2-2½		10:25		X					-17 -18
BP-12			2½-3'		11:44		X					-18 -19

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other _____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 4269 9210 4509

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR
	5/31/18	1440	ESC	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.2 °C Bottles Received: 28
B ESC	5/31/18	1630	FedEx	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/1/18 Time: 8:45

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Set A

Chain of Custody Page 3 of 3

ESC LAB SCIENCES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L998248

Table #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Billing Information:

Pres Chk

Analysis / Container / Preservative

McCloskey Consultants Inc

Report to: Tom McCloskey / Chris Vertin

Email To: Tom McCloskey / Chris Vertin

Project Description: Taft Community School

City/State Collected: Redwood City, CA

Phone: 925.786.2667

Fax:

Client Project #

Lab Project #

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPs	OCPs + PCBs	Arsenic	Lead	Remarks	Sample # (lab only)
BP-13	Grab	SS	3-3½	5.29.18	14:25	1	X					-19 -20
BP-14			3-3½		14:35		X					-20 -21
BP-15			2½-3		15:12		X					-21 -22
BP-16			2½-3		15:48		X					-22 -23
BP-17			2-2½		16:37		X					-23 -24
BP-18			1-1½		15:55			X	X	X		-24 -25
BP-18			2-2½		15:58		X					-25 -26
BP-19A			2-2½		14:03		X					-26 -27
BP-19B			2-2½		14:05		X					-27 -28
BP-20			2-2½		12:10		X					-28 -29

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ____ Temp ____

Flow ____ Other ____

Samples returned via:
__UPS __FedEx __Courier ____

Tracking # 4269 9210 4509

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

	Date:	Time:		
Relinquished by: (Signature)	5/31/18	1440	Received by: (Signature)	ESC
Relinquished by: (Signature) ESC	5/31/18	1630	Received by: (Signature) FedEx	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/1/18 Time: 8:45

Trip Blank Received: Yes (No) HCL / MeoH TBR

Temp: 1.2 °C Bottles Received: 18

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

June 08, 2018

McCloskey Consulting - Danville, CA

Sample Delivery Group:	L998267
Samples Received:	06/01/2018
Project Number:	
Description:	Taft Community School

Report To: Tom McCloskey
420 Sycamore Valley Rd West
Danville, CA 94526

Entire Report Reviewed By:

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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H-1 L998267-01 Solid

Collected by: Chris Vertin | Collected date/time: 05/25/18 12:18 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119502	1	06/04/18 13:12	06/04/18 13:21	JD
Metals (ICP) by Method 6010B	WG1119322	1	06/03/18 18:26	06/04/18 21:54	TRB
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 15:37	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 17:00	TD

H-1 L998267-02 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 10:08 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119706	1	06/05/18 08:50	06/05/18 09:02	JD
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 12:52	VKS

H-2 L998267-03 Solid

Collected by: Chris Vertin | Collected date/time: 05/25/18 12:08 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119502	1	06/04/18 13:12	06/04/18 13:21	JD
Metals (ICP) by Method 6010B	WG1119322	1	06/03/18 18:26	06/04/18 22:10	TRB
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 17:20	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 17:13	TD

H-2 L998267-04 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 10:00 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119706	1	06/05/18 08:50	06/05/18 09:02	JD
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 13:04	VKS

SS-1 L998267-05 Solid

Collected by: Chris Vertin | Collected date/time: 05/25/18 12:32 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119502	1	06/04/18 13:12	06/04/18 13:21	JD
Metals (ICP) by Method 6010B	WG1119322	1	06/03/18 18:26	06/04/18 22:13	TRB
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 13:17	VKS

SS-1A L998267-06 Solid

Collected by: Chris Vertin | Collected date/time: 05/25/18 15:23 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119706	1	06/05/18 08:50	06/05/18 09:02	JD
Metals (ICP) by Method 6010B	WG1119322	1	06/03/18 18:26	06/05/18 10:58	CCE
Pesticides (GC) by Method 8081	WG1119416	1	06/06/18 07:15	06/07/18 13:29	VKS

SS-2 L998267-07 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	05/25/18 12:44	06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119706	1	06/05/18 08:50	06/05/18 09:02	JD
Metals (ICP) by Method 6010B	WG1119322	1	06/03/18 18:26	06/05/18 11:01	CCE
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/08/18 00:06	TD

SS-1B L998267-08 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	05/25/18 15:26	06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119706	1	06/05/18 08:50	06/05/18 09:02	JD
Metals (ICP) by Method 6010B	WG1119322	1	06/03/18 18:26	06/05/18 11:04	CCE
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 23:36	TD

T-1 L998267-09 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	05/25/18 15:08	06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119706	1	06/05/18 08:50	06/05/18 09:02	JD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119783	1	06/05/18 10:33	06/05/18 19:51	TD

H-3 L998267-10 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	05/29/18 11:10	06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119706	1	06/05/18 08:50	06/05/18 09:02	JD
Metals (ICP) by Method 6010B	WG1119322	1	06/03/18 18:26	06/04/18 22:33	TRB
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 16:51	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 17:27	TD

H-3 L998267-11 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	05/29/18 11:15	06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119706	1	06/05/18 08:50	06/05/18 09:02	JD
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 21:09	TD

H-4 L998267-12 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	05/29/18 11:00	06/01/18 08:45

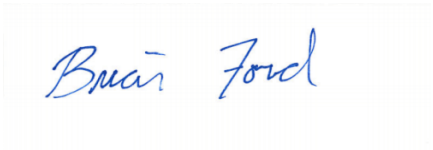
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119706	1	06/05/18 08:50	06/05/18 09:02	JD
Mercury by Method 7471A	WG1119382	1	06/03/18 11:34	06/04/18 23:57	EL
Metals (ICP) by Method 6010B	WG1119322	1	06/03/18 18:26	06/04/18 22:37	TRB
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 17:06	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 17:41	TD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1119399	50	06/04/18 17:36	06/05/18 07:46	AO
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1119425	5	06/04/18 21:58	06/05/18 15:53	KM

H-4 L998267-13 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	05/29/18 11:04	06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119706	1	06/05/18 08:50	06/05/18 09:02	JD
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 21:24	TD

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.4		1	06/04/2018 13:21	WG1119502

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.27		0.703	2.16	1	06/04/2018 21:54	WG1119322
Lead	53.4		0.206	0.541	1	06/04/2018 21:54	WG1119322

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	0.00669	J P	0.000252	0.0216	1	06/06/2018 15:37	WG1119415
Alpha BHC	U		0.000209	0.0216	1	06/06/2018 15:37	WG1119415
Beta BHC	U		0.000328	0.0216	1	06/06/2018 15:37	WG1119415
Delta BHC	U		0.000163	0.0216	1	06/06/2018 15:37	WG1119415
Gamma BHC	U		0.000265	0.0216	1	06/06/2018 15:37	WG1119415
4,4-DDD	U		0.000177	0.0216	1	06/06/2018 15:37	WG1119415
4,4-DDE	0.00562	J	0.000179	0.0216	1	06/06/2018 15:37	WG1119415
4,4-DDT	0.00395	J	0.000288	0.0216	1	06/06/2018 15:37	WG1119415
Dieldrin	0.00442		0.0000963	0.00216	1	06/06/2018 15:37	WG1119415
Endosulfan I	U		0.000232	0.0216	1	06/06/2018 15:37	WG1119415
Endosulfan II	U		0.000249	0.0216	1	06/06/2018 15:37	WG1119415
Endosulfan sulfate	U		0.000184	0.0216	1	06/06/2018 15:37	WG1119415
Endrin	U		0.000237	0.0216	1	06/06/2018 15:37	WG1119415
Endrin aldehyde	U		0.000262	0.0216	1	06/06/2018 15:37	WG1119415
Endrin ketone	U		0.000172	0.0216	1	06/06/2018 15:37	WG1119415
Heptachlor	U		0.000109	0.0216	1	06/06/2018 15:37	WG1119415
Heptachlor epoxide	U		0.000409	0.0216	1	06/06/2018 15:37	WG1119415
Hexachlorobenzene	U		0.000242	0.0216	1	06/06/2018 15:37	WG1119415
Methoxychlor	U		0.000287	0.0216	1	06/06/2018 15:37	WG1119415
Chlordane	U		0.0422	0.216	1	06/06/2018 15:37	WG1119415
Toxaphene	U		0.0390	0.433	1	06/06/2018 15:37	WG1119415
(S) Decachlorobiphenyl	*66.6*			*10.0-148*		*06/06/2018 15:37*	WG1119415
(S) Tetrachloro-m-xylene	*54.0*			*21.0-146*		*06/06/2018 15:37*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00379	0.0184	1	06/06/2018 17:00	WG1119415
PCB 1221	U		0.00581	0.0184	1	06/06/2018 17:00	WG1119415
PCB 1232	U		0.00451	0.0184	1	06/06/2018 17:00	WG1119415
PCB 1242	U		0.00344	0.0184	1	06/06/2018 17:00	WG1119415
PCB 1248	U		0.00341	0.0184	1	06/06/2018 17:00	WG1119415
PCB 1254	U		0.00511	0.0184	1	06/06/2018 17:00	WG1119415
PCB 1260	U		0.00535	0.0184	1	06/06/2018 17:00	WG1119415
(S) Decachlorobiphenyl	*71.2*			*10.0-148*		*06/06/2018 17:00*	WG1119415
(S) Tetrachloro-m-xylene	*66.0*			*21.0-146*		*06/06/2018 17:00*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.1		1	06/05/2018 09:02	WG1119706

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000298	0.0256	1	06/07/2018 12:52	WG1119416
Alpha BHC	U		0.000247	0.0256	1	06/07/2018 12:52	WG1119416
Beta BHC	U		0.000388	0.0256	1	06/07/2018 12:52	WG1119416
Delta BHC	U		0.000193	0.0256	1	06/07/2018 12:52	WG1119416
Gamma BHC	U		0.000314	0.0256	1	06/07/2018 12:52	WG1119416
4,4-DDD	U		0.000210	0.0256	1	06/07/2018 12:52	WG1119416
4,4-DDE	0.000227	J	0.000211	0.0256	1	06/07/2018 12:52	WG1119416
4,4-DDT	0.000616	J	0.000341	0.0256	1	06/07/2018 12:52	WG1119416
Dieldrin	0.000787	J	0.000114	0.00256	1	06/07/2018 12:52	WG1119416
Endosulfan I	U		0.000274	0.0256	1	06/07/2018 12:52	WG1119416
Endosulfan II	U		0.000294	0.0256	1	06/07/2018 12:52	WG1119416
Endosulfan sulfate	U		0.000218	0.0256	1	06/07/2018 12:52	WG1119416
Endrin	U		0.000280	0.0256	1	06/07/2018 12:52	WG1119416
Endrin aldehyde	U		0.000310	0.0256	1	06/07/2018 12:52	WG1119416
Endrin ketone	U		0.000204	0.0256	1	06/07/2018 12:52	WG1119416
Heptachlor	U		0.000129	0.0256	1	06/07/2018 12:52	WG1119416
Heptachlor epoxide	U		0.000484	0.0256	1	06/07/2018 12:52	WG1119416
Hexachlorobenzene	U		0.000287	0.0256	1	06/07/2018 12:52	WG1119416
Methoxychlor	U		0.000339	0.0256	1	06/07/2018 12:52	WG1119416
Chlordane	U		0.0499	0.256	1	06/07/2018 12:52	WG1119416
Toxaphene	U		0.0461	0.512	1	06/07/2018 12:52	WG1119416
(S) Decachlorobiphenyl	*68.2*			*10.0-148*		*06/07/2018 12:52*	WG1119416
(S) Tetrachloro-m-xylene	*82.7*			*21.0-146*		*06/07/2018 12:52*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.8		1	06/04/2018 13:21	WG1119502

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.37		0.716	2.20	1	06/04/2018 22:10	WG1119322
Lead	39.5		0.209	0.551	1	06/04/2018 22:10	WG1119322

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000257	0.0220	1	06/06/2018 17:20	WG1119415
Alpha BHC	U		0.000213	0.0220	1	06/06/2018 17:20	WG1119415
Beta BHC	U		0.000334	0.0220	1	06/06/2018 17:20	WG1119415
Delta BHC	U		0.000166	0.0220	1	06/06/2018 17:20	WG1119415
Gamma BHC	U		0.000270	0.0220	1	06/06/2018 17:20	WG1119415
4,4-DDD	0.00151	J	0.000181	0.0220	1	06/06/2018 17:20	WG1119415
4,4-DDE	0.00444	J P	0.000182	0.0220	1	06/06/2018 17:20	WG1119415
4,4-DDT	0.00360	J	0.000293	0.0220	1	06/06/2018 17:20	WG1119415
Dieldrin	0.00454		0.0000980	0.00220	1	06/06/2018 17:20	WG1119415
Endosulfan I	U		0.000236	0.0220	1	06/06/2018 17:20	WG1119415
Endosulfan II	U		0.000253	0.0220	1	06/06/2018 17:20	WG1119415
Endosulfan sulfate	U		0.000187	0.0220	1	06/06/2018 17:20	WG1119415
Endrin	U		0.000241	0.0220	1	06/06/2018 17:20	WG1119415
Endrin aldehyde	U		0.000266	0.0220	1	06/06/2018 17:20	WG1119415
Endrin ketone	U		0.000175	0.0220	1	06/06/2018 17:20	WG1119415
Heptachlor	U		0.000111	0.0220	1	06/06/2018 17:20	WG1119415
Heptachlor epoxide	U		0.000416	0.0220	1	06/06/2018 17:20	WG1119415
Hexachlorobenzene	U		0.000247	0.0220	1	06/06/2018 17:20	WG1119415
Methoxychlor	U		0.000292	0.0220	1	06/06/2018 17:20	WG1119415
Chlordane	U		0.0429	0.220	1	06/06/2018 17:20	WG1119415
Toxaphene	U		0.0396	0.440	1	06/06/2018 17:20	WG1119415
(S) Decachlorobiphenyl	*121*			*10.0-148*		*06/06/2018 17:20*	WG1119415
(S) Tetrachloro-m-xylene	*63.8*			*21.0-146*		*06/06/2018 17:20*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00385	0.0187	1	06/06/2018 17:13	WG1119415
PCB 1221	U		0.00591	0.0187	1	06/06/2018 17:13	WG1119415
PCB 1232	U		0.00459	0.0187	1	06/06/2018 17:13	WG1119415
PCB 1242	U		0.00350	0.0187	1	06/06/2018 17:13	WG1119415
PCB 1248	U		0.00347	0.0187	1	06/06/2018 17:13	WG1119415
PCB 1254	U		0.00520	0.0187	1	06/06/2018 17:13	WG1119415
PCB 1260	U		0.00544	0.0187	1	06/06/2018 17:13	WG1119415
(S) Decachlorobiphenyl	*63.5*			*10.0-148*		*06/06/2018 17:13*	WG1119415
(S) Tetrachloro-m-xylene	*75.3*			*21.0-146*		*06/06/2018 17:13*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.3		1	06/05/2018 09:02	WG1119706

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000309	0.0266	1	06/07/2018 13:04	WG1119416
Alpha BHC	U		0.000256	0.0266	1	06/07/2018 13:04	WG1119416
Beta BHC	U		0.000402	0.0266	1	06/07/2018 13:04	WG1119416
Delta BHC	U		0.000200	0.0266	1	06/07/2018 13:04	WG1119416
Gamma BHC	U		0.000325	0.0266	1	06/07/2018 13:04	WG1119416
4,4-DDD	U		0.000218	0.0266	1	06/07/2018 13:04	WG1119416
4,4-DDE	0.000337	J	0.000219	0.0266	1	06/07/2018 13:04	WG1119416
4,4-DDT	0.000885	J	0.000353	0.0266	1	06/07/2018 13:04	WG1119416
Dieldrin	0.000650	J	0.000118	0.00266	1	06/07/2018 13:04	WG1119416
Endosulfan I	U		0.000284	0.0266	1	06/07/2018 13:04	WG1119416
Endosulfan II	U		0.000305	0.0266	1	06/07/2018 13:04	WG1119416
Endosulfan sulfate	U		0.000226	0.0266	1	06/07/2018 13:04	WG1119416
Endrin	U		0.000291	0.0266	1	06/07/2018 13:04	WG1119416
Endrin aldehyde	U		0.000321	0.0266	1	06/07/2018 13:04	WG1119416
Endrin ketone	U		0.000211	0.0266	1	06/07/2018 13:04	WG1119416
Heptachlor	U		0.000134	0.0266	1	06/07/2018 13:04	WG1119416
Heptachlor epoxide	U		0.000502	0.0266	1	06/07/2018 13:04	WG1119416
Hexachlorobenzene	U		0.000297	0.0266	1	06/07/2018 13:04	WG1119416
Methoxychlor	U		0.000352	0.0266	1	06/07/2018 13:04	WG1119416
Chlordane	U		0.0518	0.266	1	06/07/2018 13:04	WG1119416
Toxaphene	U		0.0478	0.531	1	06/07/2018 13:04	WG1119416
(S) Decachlorobiphenyl	*65.0*			*10.0-148*		*06/07/2018 13:04*	WG1119416
(S) Tetrachloro-m-xylene	*78.1*			*21.0-146*		*06/07/2018 13:04*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.1		1	06/04/2018 13:21	WG1119502

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.71	J	0.676	2.08	1	06/04/2018 22:13	WG1119322
Lead	2.76		0.198	0.520	1	06/04/2018 22:13	WG1119322

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000242	0.0208	1	06/07/2018 13:17	WG1119416
Alpha BHC	U		0.000201	0.0208	1	06/07/2018 13:17	WG1119416
Beta BHC	U		0.000315	0.0208	1	06/07/2018 13:17	WG1119416
Delta BHC	U		0.000157	0.0208	1	06/07/2018 13:17	WG1119416
Gamma BHC	U		0.000255	0.0208	1	06/07/2018 13:17	WG1119416
4,4-DDD	U		0.000171	0.0208	1	06/07/2018 13:17	WG1119416
4,4-DDE	U		0.000172	0.0208	1	06/07/2018 13:17	WG1119416
4,4-DDT	U		0.000277	0.0208	1	06/07/2018 13:17	WG1119416
Dieldrin	U		0.0000926	0.00208	1	06/07/2018 13:17	WG1119416
Endosulfan I	U		0.000223	0.0208	1	06/07/2018 13:17	WG1119416
Endosulfan II	U		0.000239	0.0208	1	06/07/2018 13:17	WG1119416
Endosulfan sulfate	U		0.000177	0.0208	1	06/07/2018 13:17	WG1119416
Endrin	U		0.000228	0.0208	1	06/07/2018 13:17	WG1119416
Endrin aldehyde	U		0.000252	0.0208	1	06/07/2018 13:17	WG1119416
Endrin ketone	U		0.000165	0.0208	1	06/07/2018 13:17	WG1119416
Heptachlor	0.000115	J	0.000105	0.0208	1	06/07/2018 13:17	WG1119416
Heptachlor epoxide	U		0.000393	0.0208	1	06/07/2018 13:17	WG1119416
Hexachlorobenzene	U		0.000233	0.0208	1	06/07/2018 13:17	WG1119416
Methoxychlor	U		0.000276	0.0208	1	06/07/2018 13:17	WG1119416
Chlordane	U		0.0406	0.208	1	06/07/2018 13:17	WG1119416
Toxaphene	U		0.0374	0.416	1	06/07/2018 13:17	WG1119416
(S) Decachlorobiphenyl	*55.5*			*10.0-148*		*06/07/2018 13:17*	WG1119416
(S) Tetrachloro-m-xylene	*69.7*			*21.0-146*		*06/07/2018 13:17*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.7		1	06/05/2018 09:02	WG1119706

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.27		0.946	2.91	1	06/05/2018 10:58	WG1119322
Lead	32.2		0.276	0.727	1	06/05/2018 10:58	WG1119322

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000339	0.0291	1	06/07/2018 13:29	WG1119416
Alpha BHC	U		0.000281	0.0291	1	06/07/2018 13:29	WG1119416
Beta BHC	U		0.000441	0.0291	1	06/07/2018 13:29	WG1119416
Delta BHC	U		0.000220	0.0291	1	06/07/2018 13:29	WG1119416
Gamma BHC	U		0.000356	0.0291	1	06/07/2018 13:29	WG1119416
4,4-DDD	U		0.000239	0.0291	1	06/07/2018 13:29	WG1119416
4,4-DDE	U		0.000240	0.0291	1	06/07/2018 13:29	WG1119416
4,4-DDT	0.00175	J	0.000387	0.0291	1	06/07/2018 13:29	WG1119416
Dieldrin	U		0.000129	0.00291	1	06/07/2018 13:29	WG1119416
Endosulfan I	U		0.000311	0.0291	1	06/07/2018 13:29	WG1119416
Endosulfan II	U		0.000335	0.0291	1	06/07/2018 13:29	WG1119416
Endosulfan sulfate	U		0.000247	0.0291	1	06/07/2018 13:29	WG1119416
Endrin	U		0.000319	0.0291	1	06/07/2018 13:29	WG1119416
Endrin aldehyde	U		0.000352	0.0291	1	06/07/2018 13:29	WG1119416
Endrin ketone	U		0.000231	0.0291	1	06/07/2018 13:29	WG1119416
Heptachlor	U		0.000147	0.0291	1	06/07/2018 13:29	WG1119416
Heptachlor epoxide	U		0.000550	0.0291	1	06/07/2018 13:29	WG1119416
Hexachlorobenzene	0.000486	J P	0.000326	0.0291	1	06/07/2018 13:29	WG1119416
Methoxychlor	U		0.000386	0.0291	1	06/07/2018 13:29	WG1119416
Chlordane	U		0.0567	0.291	1	06/07/2018 13:29	WG1119416
Toxaphene	U		0.0524	0.582	1	06/07/2018 13:29	WG1119416
(S) Decachlorobiphenyl	*56.6*			*10.0-148*		*06/07/2018 13:29*	WG1119416
(S) Tetrachloro-m-xylene	*73.9*			*21.0-146*		*06/07/2018 13:29*	WG1119416

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.2		1	06/05/2018 09:02	WG1119706

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.19		0.728	2.24	1	06/05/2018 11:01	WG1119322
Lead	22.6		0.213	0.560	1	06/05/2018 11:01	WG1119322

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000261	0.0224	1	06/08/2018 00:06	WG1120795
Alpha BHC	U		0.000216	0.0224	1	06/08/2018 00:06	WG1120795
Beta BHC	U		0.000340	0.0224	1	06/08/2018 00:06	WG1120795
Delta BHC	U		0.000169	0.0224	1	06/08/2018 00:06	WG1120795
Gamma BHC	U		0.000275	0.0224	1	06/08/2018 00:06	WG1120795
4,4-DDD	U		0.000184	0.0224	1	06/08/2018 00:06	WG1120795
4,4-DDE	0.00189	J	0.000185	0.0224	1	06/08/2018 00:06	WG1120795
4,4-DDT	0.00635	J	0.000298	0.0224	1	06/08/2018 00:06	WG1120795
Dieldrin	U		0.0000997	0.00224	1	06/08/2018 00:06	WG1120795
Endosulfan I	U		0.000240	0.0224	1	06/08/2018 00:06	WG1120795
Endosulfan II	U		0.000258	0.0224	1	06/08/2018 00:06	WG1120795
Endosulfan sulfate	U		0.000190	0.0224	1	06/08/2018 00:06	WG1120795
Endrin	U		0.000245	0.0224	1	06/08/2018 00:06	WG1120795
Endrin aldehyde	U		0.000271	0.0224	1	06/08/2018 00:06	WG1120795
Endrin ketone	U		0.000178	0.0224	1	06/08/2018 00:06	WG1120795
Heptachlor	U		0.000113	0.0224	1	06/08/2018 00:06	WG1120795
Heptachlor epoxide	U		0.000424	0.0224	1	06/08/2018 00:06	WG1120795
Hexachlorobenzene	U		0.000251	0.0224	1	06/08/2018 00:06	WG1120795
Methoxychlor	U		0.000297	0.0224	1	06/08/2018 00:06	WG1120795
Chlordane	0.217	J	0.0437	0.224	1	06/08/2018 00:06	WG1120795
Toxaphene	0.477		0.0403	0.448	1	06/08/2018 00:06	WG1120795
(S) Decachlorobiphenyl	*68.6*			*10.0-148*		*06/08/2018 00:06*	WG1120795
(S) Tetrachloro-m-xylene	*66.5*			*21.0-146*		*06/08/2018 00:06*	WG1120795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.2		1	06/05/2018 09:02	WG1119706

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	7.12		0.831	2.56	1	06/05/2018 11:04	WG1119322
Lead	25.2		0.243	0.639	1	06/05/2018 11:04	WG1119322

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000298	0.0256	1	06/07/2018 23:36	WG1120795
Alpha BHC	U		0.000247	0.0256	1	06/07/2018 23:36	WG1120795
Beta BHC	U		0.000388	0.0256	1	06/07/2018 23:36	WG1120795
Delta BHC	U		0.000193	0.0256	1	06/07/2018 23:36	WG1120795
Gamma BHC	U		0.000313	0.0256	1	06/07/2018 23:36	WG1120795
4,4-DDD	U		0.000210	0.0256	1	06/07/2018 23:36	WG1120795
4,4-DDE	0.000984	J	0.000211	0.0256	1	06/07/2018 23:36	WG1120795
4,4-DDT	0.00365	J	0.000340	0.0256	1	06/07/2018 23:36	WG1120795
Dieldrin	U		0.000114	0.00256	1	06/07/2018 23:36	WG1120795
Endosulfan I	U		0.000274	0.0256	1	06/07/2018 23:36	WG1120795
Endosulfan II	U		0.000294	0.0256	1	06/07/2018 23:36	WG1120795
Endosulfan sulfate	U		0.000217	0.0256	1	06/07/2018 23:36	WG1120795
Endrin	U		0.000280	0.0256	1	06/07/2018 23:36	WG1120795
Endrin aldehyde	U		0.000310	0.0256	1	06/07/2018 23:36	WG1120795
Endrin ketone	U		0.000203	0.0256	1	06/07/2018 23:36	WG1120795
Heptachlor	U		0.000129	0.0256	1	06/07/2018 23:36	WG1120795
Heptachlor epoxide	U		0.000483	0.0256	1	06/07/2018 23:36	WG1120795
Hexachlorobenzene	U		0.000286	0.0256	1	06/07/2018 23:36	WG1120795
Methoxychlor	U		0.000339	0.0256	1	06/07/2018 23:36	WG1120795
Chlordane	0.114	J	0.0499	0.256	1	06/07/2018 23:36	WG1120795
Toxaphene	U		0.0460	0.512	1	06/07/2018 23:36	WG1120795
(S) Decachlorobiphenyl	*76.6*			*10.0-148*		*06/07/2018 23:36*	WG1120795
(S) Tetrachloro-m-xylene	*80.2*			*21.0-146*		*06/07/2018 23:36*	WG1120795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.3		1	06/05/2018 09:02	WG1119706

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00425	0.0207	1	06/05/2018 19:51	WG1119783
PCB 1221	U		0.00652	0.0207	1	06/05/2018 19:51	WG1119783
PCB 1232	U		0.00507	0.0207	1	06/05/2018 19:51	WG1119783
PCB 1242	U		0.00386	0.0207	1	06/05/2018 19:51	WG1119783
PCB 1248	U		0.00383	0.0207	1	06/05/2018 19:51	WG1119783
PCB 1254	U		0.00573	0.0207	1	06/05/2018 19:51	WG1119783
PCB 1260	U		0.00600	0.0207	1	06/05/2018 19:51	WG1119783
(S) Decachlorobiphenyl	*24.0*			*10.0-148*		*06/05/2018 19:51*	WG1119783
(S) Tetrachloro-m-xylene	*53.7*			*21.0-146*		*06/05/2018 19:51*	WG1119783

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.8		1	06/05/2018 09:02	WG1119706

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		0.716	2.20	1	06/04/2018 22:33	WG1119322
Lead	1.13		0.209	0.551	1	06/04/2018 22:33	WG1119322

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000257	0.0220	1	06/06/2018 16:51	WG1119415
Alpha BHC	U		0.000213	0.0220	1	06/06/2018 16:51	WG1119415
Beta BHC	U		0.000334	0.0220	1	06/06/2018 16:51	WG1119415
Delta BHC	U		0.000166	0.0220	1	06/06/2018 16:51	WG1119415
Gamma BHC	U		0.000270	0.0220	1	06/06/2018 16:51	WG1119415
4,4-DDD	U		0.000181	0.0220	1	06/06/2018 16:51	WG1119415
4,4-DDE	U		0.000182	0.0220	1	06/06/2018 16:51	WG1119415
4,4-DDT	U		0.000293	0.0220	1	06/06/2018 16:51	WG1119415
Dieldrin	U		0.0000981	0.00220	1	06/06/2018 16:51	WG1119415
Endosulfan I	U		0.000236	0.0220	1	06/06/2018 16:51	WG1119415
Endosulfan II	U		0.000253	0.0220	1	06/06/2018 16:51	WG1119415
Endosulfan sulfate	U		0.000187	0.0220	1	06/06/2018 16:51	WG1119415
Endrin	U		0.000241	0.0220	1	06/06/2018 16:51	WG1119415
Endrin aldehyde	U		0.000267	0.0220	1	06/06/2018 16:51	WG1119415
Endrin ketone	U		0.000175	0.0220	1	06/06/2018 16:51	WG1119415
Heptachlor	U		0.000111	0.0220	1	06/06/2018 16:51	WG1119415
Heptachlor epoxide	U		0.000416	0.0220	1	06/06/2018 16:51	WG1119415
Hexachlorobenzene	U		0.000247	0.0220	1	06/06/2018 16:51	WG1119415
Methoxychlor	U		0.000292	0.0220	1	06/06/2018 16:51	WG1119415
Chlordane	U		0.0430	0.220	1	06/06/2018 16:51	WG1119415
Toxaphene	U		0.0397	0.441	1	06/06/2018 16:51	WG1119415
(S) Decachlorobiphenyl	*78.0*			*10.0-148*		*06/06/2018 16:51*	WG1119415
(S) Tetrachloro-m-xylene	*68.0*			*21.0-146*		*06/06/2018 16:51*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00386	0.0187	1	06/06/2018 17:27	WG1119415
PCB 1221	U		0.00592	0.0187	1	06/06/2018 17:27	WG1119415
PCB 1232	U		0.00459	0.0187	1	06/06/2018 17:27	WG1119415
PCB 1242	U		0.00350	0.0187	1	06/06/2018 17:27	WG1119415
PCB 1248	U		0.00347	0.0187	1	06/06/2018 17:27	WG1119415
PCB 1254	U		0.00520	0.0187	1	06/06/2018 17:27	WG1119415
PCB 1260	U		0.00544	0.0187	1	06/06/2018 17:27	WG1119415
(S) Decachlorobiphenyl	*68.8*			*10.0-148*		*06/06/2018 17:27*	WG1119415
(S) Tetrachloro-m-xylene	*77.5*			*21.0-146*		*06/06/2018 17:27*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.3		1	06/05/2018 09:02	WG1119706

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000294	0.0252	1	06/07/2018 21:09	WG1120795
Alpha BHC	U		0.000244	0.0252	1	06/07/2018 21:09	WG1120795
Beta BHC	U		0.000382	0.0252	1	06/07/2018 21:09	WG1120795
Delta BHC	U		0.000191	0.0252	1	06/07/2018 21:09	WG1120795
Gamma BHC	U		0.000309	0.0252	1	06/07/2018 21:09	WG1120795
4,4-DDD	U		0.000207	0.0252	1	06/07/2018 21:09	WG1120795
4,4-DDE	U		0.000208	0.0252	1	06/07/2018 21:09	WG1120795
4,4-DDT	U		0.000336	0.0252	1	06/07/2018 21:09	WG1120795
Dieldrin	U		0.000112	0.00252	1	06/07/2018 21:09	WG1120795
Endosulfan I	U		0.000270	0.0252	1	06/07/2018 21:09	WG1120795
Endosulfan II	U		0.000290	0.0252	1	06/07/2018 21:09	WG1120795
Endosulfan sulfate	U		0.000215	0.0252	1	06/07/2018 21:09	WG1120795
Endrin	U		0.000276	0.0252	1	06/07/2018 21:09	WG1120795
Endrin aldehyde	U		0.000305	0.0252	1	06/07/2018 21:09	WG1120795
Endrin ketone	U		0.000201	0.0252	1	06/07/2018 21:09	WG1120795
Heptachlor	U		0.000127	0.0252	1	06/07/2018 21:09	WG1120795
Heptachlor epoxide	U		0.000477	0.0252	1	06/07/2018 21:09	WG1120795
Hexachlorobenzene	U		0.000283	0.0252	1	06/07/2018 21:09	WG1120795
Methoxychlor	U		0.000334	0.0252	1	06/07/2018 21:09	WG1120795
Chlordane	U		0.0492	0.252	1	06/07/2018 21:09	WG1120795
Toxaphene	U		0.0454	0.505	1	06/07/2018 21:09	WG1120795
(S) Decachlorobiphenyl	*53.1*			*10.0-148*		*06/07/2018 21:09*	WG1120795
(S) Tetrachloro-m-xylene	*61.3*			*21.0-146*		*06/07/2018 21:09*	WG1120795

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.5		1	06/05/2018 09:02	WG1119706

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0165	J	0.00328	0.0234	1	06/04/2018 23:57	WG1119382

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.878	2.34	1	06/04/2018 22:37	WG1119322
Arsenic	U		0.761	2.34	1	06/04/2018 22:37	WG1119322
Barium	72.6		0.199	0.585	1	06/04/2018 22:37	WG1119322
Beryllium	0.387		0.0819	0.234	1	06/04/2018 22:37	WG1119322
Cadmium	U		0.0819	0.585	1	06/04/2018 22:37	WG1119322
Chromium	151		0.164	1.17	1	06/04/2018 22:37	WG1119322
Cobalt	35.2		0.269	1.17	1	06/04/2018 22:37	WG1119322
Copper	58.1		0.620	2.34	1	06/04/2018 22:37	WG1119322
Lead	2.32		0.222	0.585	1	06/04/2018 22:37	WG1119322
Molybdenum	U		0.187	0.585	1	06/04/2018 22:37	WG1119322
Nickel	94.9		0.573	2.34	1	06/04/2018 22:37	WG1119322
Selenium	U		0.866	2.34	1	06/04/2018 22:37	WG1119322
Silver	U		0.328	1.17	1	06/04/2018 22:37	WG1119322
Thallium	U		0.761	2.34	1	06/04/2018 22:37	WG1119322
Vanadium	159		0.281	2.34	1	06/04/2018 22:37	WG1119322
Zinc	72.0		0.690	5.85	1	06/04/2018 22:37	WG1119322

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000273	0.0234	1	06/06/2018 17:06	WG1119415
Alpha BHC	U		0.000226	0.0234	1	06/06/2018 17:06	WG1119415
Beta BHC	U		0.000355	0.0234	1	06/06/2018 17:06	WG1119415
Delta BHC	U		0.000177	0.0234	1	06/06/2018 17:06	WG1119415
Gamma BHC	U		0.000287	0.0234	1	06/06/2018 17:06	WG1119415
4,4-DDD	U		0.000192	0.0234	1	06/06/2018 17:06	WG1119415
4,4-DDE	U		0.000193	0.0234	1	06/06/2018 17:06	WG1119415
4,4-DDT	U		0.000311	0.0234	1	06/06/2018 17:06	WG1119415
Dieldrin	U		0.000104	0.00234	1	06/06/2018 17:06	WG1119415
Endosulfan I	U		0.000250	0.0234	1	06/06/2018 17:06	WG1119415
Endosulfan II	U		0.000269	0.0234	1	06/06/2018 17:06	WG1119415
Endosulfan sulfate	U		0.000199	0.0234	1	06/06/2018 17:06	WG1119415
Endrin	U		0.000256	0.0234	1	06/06/2018 17:06	WG1119415
Endrin aldehyde	U		0.000283	0.0234	1	06/06/2018 17:06	WG1119415
Endrin ketone	U		0.000186	0.0234	1	06/06/2018 17:06	WG1119415
Heptachlor	U		0.000118	0.0234	1	06/06/2018 17:06	WG1119415
Heptachlor epoxide	0.298		0.000442	0.0234	1	06/06/2018 17:06	WG1119415
Hexachlorobenzene	U		0.000262	0.0234	1	06/06/2018 17:06	WG1119415
Methoxychlor	U		0.000310	0.0234	1	06/06/2018 17:06	WG1119415
Chlordane	U		0.0456	0.234	1	06/06/2018 17:06	WG1119415
Toxaphene	U		0.0421	0.468	1	06/06/2018 17:06	WG1119415
(S) Decachlorobiphenyl	*112*			*10.0-148*		*06/06/2018 17:06*	WG1119415
(S) Tetrachloro-m-xylene	*63.2*			*21.0-146*		*06/06/2018 17:06*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00410	0.0199	1	06/06/2018 17:41	WG1119415
PCB 1221	U		0.00628	0.0199	1	06/06/2018 17:41	WG1119415
PCB 1232	U		0.00488	0.0199	1	06/06/2018 17:41	WG1119415
PCB 1242	U		0.00372	0.0199	1	06/06/2018 17:41	WG1119415
PCB 1248	U		0.00369	0.0199	1	06/06/2018 17:41	WG1119415
PCB 1254	U		0.00552	0.0199	1	06/06/2018 17:41	WG1119415
PCB 1260	U		0.00578	0.0199	1	06/06/2018 17:41	WG1119415
(S) Decachlorobiphenyl	*73.9*			*10.0-148*		*06/06/2018 17:41*	WG1119415
(S) Tetrachloro-m-xylene	*72.6*			*21.0-146*		*06/06/2018 17:41*	WG1119415

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.376	1.93	50	06/05/2018 07:46	WG1119399
Acenaphthylene	U		0.393	1.93	50	06/05/2018 07:46	WG1119399
Anthracene	U		0.370	1.93	50	06/05/2018 07:46	WG1119399
Benzidine	U	J4	3.72	19.5	50	06/05/2018 07:46	WG1119399
Benzo(a)anthracene	U		0.250	1.93	50	06/05/2018 07:46	WG1119399
Benzo(b)fluoranthene	U		0.407	1.93	50	06/05/2018 07:46	WG1119399
Benzo(k)fluoranthene	U		0.341	1.93	50	06/05/2018 07:46	WG1119399
Benzo(g,h,i)perylene	U		0.421	1.93	50	06/05/2018 07:46	WG1119399
Benzo(a)pyrene	U		0.321	1.93	50	06/05/2018 07:46	WG1119399
Bis(2-chlorethoxy)methane	U		0.450	19.5	50	06/05/2018 07:46	WG1119399
Bis(2-chloroethyl)ether	U		0.524	19.5	50	06/05/2018 07:46	WG1119399
Bis(2-chloroisopropyl)ether	U		0.445	19.5	50	06/05/2018 07:46	WG1119399
4-Bromophenyl-phenylether	U		0.667	19.5	50	06/05/2018 07:46	WG1119399
2-Chloronaphthalene	U		0.374	1.93	50	06/05/2018 07:46	WG1119399
4-Chlorophenyl-phenylether	U		0.367	19.5	50	06/05/2018 07:46	WG1119399
Chrysene	U		0.325	1.93	50	06/05/2018 07:46	WG1119399
Dibenz(a,h)anthracene	U		0.480	1.93	50	06/05/2018 07:46	WG1119399
3,3-Dichlorobenzidine	U		4.65	19.5	50	06/05/2018 07:46	WG1119399
2,4-Dinitrotoluene	U		0.356	19.5	50	06/05/2018 07:46	WG1119399
2,6-Dinitrotoluene	U		0.431	19.5	50	06/05/2018 07:46	WG1119399
Fluoranthene	U		0.290	1.93	50	06/05/2018 07:46	WG1119399
Fluorene	U		0.399	1.93	50	06/05/2018 07:46	WG1119399
Hexachlorobenzene	U		0.501	19.5	50	06/05/2018 07:46	WG1119399
Hexachloro-1,3-butadiene	U		0.585	19.5	50	06/05/2018 07:46	WG1119399
Hexachlorocyclopentadiene	U		3.44	19.5	50	06/05/2018 07:46	WG1119399
Hexachloroethane	U		0.784	19.5	50	06/05/2018 07:46	WG1119399
Indeno(1,2,3-cd)pyrene	U		0.452	1.93	50	06/05/2018 07:46	WG1119399
Isophorone	U		0.305	19.5	50	06/05/2018 07:46	WG1119399
Naphthalene	U		0.520	1.93	50	06/05/2018 07:46	WG1119399
Nitrobenzene	U		0.407	19.5	50	06/05/2018 07:46	WG1119399
n-Nitrosodimethylamine	U		3.79	19.5	50	06/05/2018 07:46	WG1119399
n-Nitrosodiphenylamine	U		0.348	19.5	50	06/05/2018 07:46	WG1119399
n-Nitrosodi-n-propylamine	U		0.530	19.5	50	06/05/2018 07:46	WG1119399
Phenanthrene	U		0.309	1.93	50	06/05/2018 07:46	WG1119399
Benzylbutyl phthalate	U		0.603	19.5	50	06/05/2018 07:46	WG1119399
Bis(2-ethylhexyl)phthalate	1.10	B J	0.702	19.5	50	06/05/2018 07:46	WG1119399
Di-n-butyl phthalate	U		0.638	19.5	50	06/05/2018 07:46	WG1119399
Diethyl phthalate	U		0.405	19.5	50	06/05/2018 07:46	WG1119399
Dimethyl phthalate	U		0.316	19.5	50	06/05/2018 07:46	WG1119399
Di-n-octyl phthalate	U		0.531	19.5	50	06/05/2018 07:46	WG1119399
Pyrene	U		0.720	1.93	50	06/05/2018 07:46	WG1119399
1,2,4-Trichlorobenzene	U		0.513	19.5	50	06/05/2018 07:46	WG1119399
4-Chloro-3-methylphenol	U		0.278	19.5	50	06/05/2018 07:46	WG1119399

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chlorophenol	U		0.487	19.5	50	06/05/2018 07:46	WG1119399
2,4-Dichlorophenol	U		0.436	19.5	50	06/05/2018 07:46	WG1119399
2,4-Dimethylphenol	U		2.76	19.5	50	06/05/2018 07:46	WG1119399
4,6-Dinitro-2-methylphenol	U		7.25	19.5	50	06/05/2018 07:46	WG1119399
2,4-Dinitrophenol	U		5.73	19.5	50	06/05/2018 07:46	WG1119399
2-Nitrophenol	U		0.761	19.5	50	06/05/2018 07:46	WG1119399
4-Nitrophenol	U		3.07	19.5	50	06/05/2018 07:46	WG1119399
Pentachlorophenol	U		2.81	19.5	50	06/05/2018 07:46	WG1119399
Phenol	U		0.407	19.5	50	06/05/2018 07:46	WG1119399
2,4,6-Trichlorophenol	U		0.456	19.5	50	06/05/2018 07:46	WG1119399
(S) 2-Fluorophenol	*61.2*	J7		*20.0-120*		*06/05/2018 07:46*	WG1119399
(S) Phenol-d5	*33.5*	J7		*20.0-120*		*06/05/2018 07:46*	WG1119399
(S) Nitrobenzene-d5	*31.5*	J7		*18.0-125*		*06/05/2018 07:46*	WG1119399
(S) 2-Fluorobiphenyl	*62.8*	J7		*28.0-120*		*06/05/2018 07:46*	WG1119399
(S) 2,4,6-Tribromophenol	*53.0*	J7		*17.0-137*		*06/05/2018 07:46*	WG1119399
(S) p-Terphenyl-d14	*79.0*	J7		*13.0-131*		*06/05/2018 07:46*	WG1119399

Sample Narrative:

L998267-12 WG1119399: Cannot run at lower dilution due to viscosity of extract

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Acenaphthene	U		0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Acenaphthylene	U		0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Benzo(a)anthracene	0.00892	J	0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Benzo(a)pyrene	0.0109	J	0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Benzo(b)fluoranthene	0.0260	J	0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Benzo(g,h,i)perylene	0.0225	J	0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Benzo(k)fluoranthene	0.00733	J	0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Chrysene	0.0236	J	0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Dibenz(a,h)anthracene	0.00887	J	0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Fluoranthene	0.0120	J	0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Fluorene	U		0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Indeno(1,2,3-cd)pyrene	0.00468	J	0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Naphthalene	U		0.0117	0.117	5	06/05/2018 15:53	WG1119425
Phenanthrene	0.00999	J	0.00351	0.0351	5	06/05/2018 15:53	WG1119425
Pyrene	0.0307	J	0.00351	0.0351	5	06/05/2018 15:53	WG1119425
1-Methylnaphthalene	U		0.0117	0.117	5	06/05/2018 15:53	WG1119425
2-Methylnaphthalene	U		0.0117	0.117	5	06/05/2018 15:53	WG1119425
2-Chloronaphthalene	U		0.0117	0.117	5	06/05/2018 15:53	WG1119425
(S) p-Terphenyl-d14	*74.5*			*23.0-120*		*06/05/2018 15:53*	WG1119425
(S) Nitrobenzene-d5	*97.5*			*14.0-149*		*06/05/2018 15:53*	WG1119425
(S) 2-Fluorobiphenyl	*77.0*			*34.0-125*		*06/05/2018 15:53*	WG1119425

Sample Narrative:

L998267-12 WG1119425: Dilution due to matrix

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.7		1	06/05/2018 09:02	WG1119706

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000316	0.0271	1	06/07/2018 21:24	WG1120795
Alpha BHC	U		0.000262	0.0271	1	06/07/2018 21:24	WG1120795
Beta BHC	U		0.000411	0.0271	1	06/07/2018 21:24	WG1120795
Delta BHC	U		0.000205	0.0271	1	06/07/2018 21:24	WG1120795
Gamma BHC	U		0.000333	0.0271	1	06/07/2018 21:24	WG1120795
4,4-DDD	U		0.000223	0.0271	1	06/07/2018 21:24	WG1120795
4,4-DDE	U		0.000224	0.0271	1	06/07/2018 21:24	WG1120795
4,4-DDT	U		0.000361	0.0271	1	06/07/2018 21:24	WG1120795
Dieldrin	U		0.000121	0.00271	1	06/07/2018 21:24	WG1120795
Endosulfan I	U		0.000290	0.0271	1	06/07/2018 21:24	WG1120795
Endosulfan II	U		0.000312	0.0271	1	06/07/2018 21:24	WG1120795
Endosulfan sulfate	U		0.000231	0.0271	1	06/07/2018 21:24	WG1120795
Endrin	U		0.000297	0.0271	1	06/07/2018 21:24	WG1120795
Endrin aldehyde	U		0.000328	0.0271	1	06/07/2018 21:24	WG1120795
Endrin ketone	U		0.000216	0.0271	1	06/07/2018 21:24	WG1120795
Heptachlor	U		0.000137	0.0271	1	06/07/2018 21:24	WG1120795
Heptachlor epoxide	U		0.000513	0.0271	1	06/07/2018 21:24	WG1120795
Hexachlorobenzene	U		0.000304	0.0271	1	06/07/2018 21:24	WG1120795
Methoxychlor	U		0.000360	0.0271	1	06/07/2018 21:24	WG1120795
Chlordane	U		0.0529	0.271	1	06/07/2018 21:24	WG1120795
Toxaphene	U		0.0489	0.543	1	06/07/2018 21:24	WG1120795
(S) Decachlorobiphenyl	*46.9*			*10.0-148*		*06/07/2018 21:24*	WG1120795
(S) Tetrachloro-m-xylene	*64.0*			*21.0-146*		*06/07/2018 21:24*	WG1120795

Method Blank (MB)

(MB) R3315317-1 06/04/18 13:21

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L998267-01 Original Sample (OS) • Duplicate (DUP)

(OS) L998267-01 06/04/18 13:21 • (DUP) R3315317-3 06/04/18 13:21

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.4	91.2	1	1.27		5

Laboratory Control Sample (LCS)

(LCS) R3315317-2 06/04/18 13:21

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3315660-1 06/05/18 09:02

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L998267-11 Original Sample (OS) • Duplicate (DUP)

(OS) L998267-11 06/05/18 09:02 • (DUP) R3315660-3 06/05/18 09:02

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	79.3	79.4	1	0.152		5

Laboratory Control Sample (LCS)

(LCS) R3315660-2 06/05/18 09:02

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3315305-1 06/04/18 23:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.00280	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315305-2 06/04/18 23:44 • (LCSD) R3315305-3 06/04/18 23:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.290	0.293	96.7	97.6	80.0-120			0.906	20

L998678-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998678-01 06/04/18 23:50 • (MS) R3315305-4 06/04/18 23:52 • (MSD) R3315305-5 06/04/18 23:55

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.0158	0.327	0.321	104	102	1	75.0-125			1.70	20

Method Blank (MB)

(MB) R3315315-1 06/04/18 21:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.750	2.00
Arsenic	U		0.650	2.00
Barium	U		0.170	0.500
Beryllium	U		0.0700	0.200
Cadmium	U		0.0700	0.500
Chromium	U		0.140	1.00
Cobalt	U		0.230	1.00
Copper	U		0.530	2.00
Lead	U		0.190	0.500
Molybdenum	U		0.160	0.500
Nickel	U		0.490	2.00
Selenium	U		0.740	2.00
Silver	U		0.280	1.00
Thallium	U		0.650	2.00
Vanadium	U		0.240	2.00
Zinc	U		0.590	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315315-2 06/04/18 21:47 • (LCSD) R3315315-3 06/04/18 21:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	104	101	104	101	80.0-120			2.51	20
Arsenic	100	103	101	103	101	80.0-120			1.61	20
Barium	100	107	105	107	105	80.0-120			1.71	20
Beryllium	100	105	103	105	103	80.0-120			1.80	20
Cadmium	100	102	101	102	101	80.0-120			1.58	20
Chromium	100	102	99.9	102	99.9	80.0-120			2.05	20
Cobalt	100	104	103	104	103	80.0-120			0.543	20
Copper	100	100	99.0	100	99.0	80.0-120			1.43	20
Lead	100	100	98.9	100	98.9	80.0-120			1.34	20
Molybdenum	100	109	107	109	107	80.0-120			2.11	20
Nickel	100	102	101	102	101	80.0-120			0.685	20
Selenium	100	101	101	101	101	80.0-120			0.590	20
Silver	20.0	18.5	18.2	92.7	91.2	80.0-120			1.59	20
Thallium	100	99.3	97.8	99.3	97.8	80.0-120			1.50	20
Vanadium	100	105	103	105	103	80.0-120			2.00	20
Zinc	100	104	102	104	102	80.0-120			1.94	20

L998267-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998267-01 06/04/18 21:54 • (MS) R3315315-6 06/04/18 22:03 • (MSD) R3315315-7 06/04/18 22:06

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	108	U	53.1	58.9	49.1	54.4	1	75.0-125	J6	J6	10.3	20
Arsenic	108	3.27	112	112	101	100	1	75.0-125			0.482	20
Barium	108	116	232	199	107	76.4	1	75.0-125			15.2	20
Beryllium	108	0.352	110	111	101	103	1	75.0-125			1.44	20
Cadmium	108	0.246	110	111	102	102	1	75.0-125			0.610	20
Chromium	108	71.1	168	145	89.5	68.1	1	75.0-125		J6	14.8	20
Cobalt	108	14.0	125	123	102	100	1	75.0-125			1.52	20
Copper	108	31.4	146	138	106	98.9	1	75.0-125			5.56	20
Lead	108	53.4	161	146	99.2	85.3	1	75.0-125			9.80	20
Molybdenum	108	0.227	110	111	101	102	1	75.0-125			0.849	20
Nickel	108	62.9	165	154	94.2	83.9	1	75.0-125			7.00	20
Selenium	108	U	112	112	103	103	1	75.0-125			0.0548	20
Silver	21.6	U	19.7	19.7	91.1	90.9	1	75.0-125			0.133	20
Thallium	108	U	107	106	98.8	98.1	1	75.0-125			0.692	20
Vanadium	108	56.1	159	153	94.7	89.6	1	75.0-125			3.50	20
Zinc	108	104	213	186	101	75.9	1	75.0-125			13.4	20

Method Blank (MB)

(MB) R3316497-3 06/06/18 11:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*72.3*			*10.0-148*
(S) Tetrachloro-m-xylene	*73.4*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316497-1 06/06/18 10:56 • (LCSD) R3316497-2 06/06/18 11:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0468	0.0441	70.2	66.1	55.0-137			6.06	29
Alpha BHC	0.0667	0.0478	0.0446	71.7	66.8	55.0-136			6.94	28
Beta BHC	0.0667	0.0476	0.0448	71.3	67.1	53.0-133			6.08	28
Delta BHC	0.0667	0.0481	0.0463	72.0	69.4	53.0-139			3.70	29
Gamma BHC	0.0667	0.0472	0.0445	70.7	66.7	54.0-136			5.80	29
4,4-DDD	0.0667	0.0479	0.0452	71.9	67.7	51.0-141			5.89	29
4,4-DDE	0.0667	0.0448	0.0422	67.2	63.2	53.0-142			6.08	30
4,4-DDT	0.0667	0.0478	0.0463	71.6	69.4	47.0-143			3.12	30
Dieldrin	0.0667	0.0472	0.0448	70.8	67.2	54.0-141			5.19	29
Endosulfan I	0.0667	0.0449	0.0425	67.3	63.7	54.0-141			5.55	29

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316497-1 06/06/18 10:56 • (LCSD) R3316497-2 06/06/18 11:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0667	0.0476	0.0452	71.3	67.8	53.0-140			5.06	28
Endosulfan sulfate	0.0667	0.0472	0.0458	70.7	68.7	52.0-141			2.88	29
Endrin	0.0667	0.0466	0.0457	69.9	68.5	52.0-137			2.03	29
Endrin aldehyde	0.0667	0.0458	0.0439	68.7	65.9	30.0-127			4.25	31
Endrin ketone	0.0667	0.0521	0.0498	78.1	74.6	51.0-139			4.55	28
Heptachlor	0.0667	0.0471	0.0463	70.6	69.4	53.0-144			1.66	29
Heptachlor epoxide	0.0667	0.0454	0.0438	68.1	65.6	54.0-137			3.72	28
Hexachlorobenzene	0.0667	0.0441	0.0420	66.1	63.0	50.0-135			4.84	28
Methoxychlor	0.0667	0.0506	0.0491	75.8	73.6	49.0-145			2.98	29
(S) Decachlorobiphenyl				*79.2*	*76.9*	*10.0-148*				
(S) Tetrachloro-m-xylene				*76.6*	*73.4*	*21.0-146*				

L998278-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998278-01 06/06/18 16:06 • (MS) R3316497-4 06/06/18 16:21 • (MSD) R3316497-5 06/06/18 16:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0738	U	0.0425	0.0466	57.5	63.1	1	19.0-152			9.35	24
Alpha BHC	0.0738	U	0.0466	0.0507	63.1	68.6	1	39.0-152			8.50	21
Beta BHC	0.0738	U	0.0483	0.0534	65.4	72.4	1	38.0-150			10.2	20
Delta BHC	0.0738	U	0.0484	0.0542	65.5	73.4	1	34.0-155			11.4	21
Gamma BHC	0.0738	U	0.0452	0.0498	61.2	67.5	1	38.0-153			9.79	21
4,4-DDD	0.0738	U	0.0475	0.0542	64.4	73.4	1	22.0-160			13.1	25
4,4-DDE	0.0738	U	0.0400	0.0441	54.2	59.7	1	10.0-160			9.58	27
4,4-DDT	0.0738	0.00307	0.0323	0.0329	39.5	40.3	1	10.0-160			1.86	28
Dieldrin	0.0738	U	0.0431	0.0479	58.4	64.9	1	30.0-158			10.5	25
Endosulfan I	0.0738	U	0.0412	0.0458	55.8	62.0	1	31.0-155			10.6	25
Endosulfan II	0.0738	U	0.0429	0.0475	58.1	64.3	1	32.0-156			10.2	25
Endosulfan sulfate	0.0738	U	0.0449	0.0490	60.8	66.4	1	31.0-158			8.72	24
Endrin	0.0738	U	0.0449	0.0509	60.8	68.9	1	30.0-149			12.6	25
Endrin aldehyde	0.0738	U	0.0410	0.0456	55.5	61.8	1	20.0-157			10.8	26
Endrin ketone	0.0738	U	0.0463	0.0512	62.7	69.4	1	32.0-154			10.2	23
Heptachlor	0.0738	U	0.0418	0.0461	56.7	62.5	1	18.0-160			9.76	23
Heptachlor epoxide	0.0738	U	0.0431	0.0479	58.4	64.9	1	31.0-154			10.5	25
Hexachlorobenzene	0.0738	U	0.0447	0.0486	60.5	65.8	1	26.0-146			8.29	21
Methoxychlor	0.0738	U	0.0343	0.0374	46.5	50.6	1	10.0-160			8.59	27
(S) Decachlorobiphenyl					*76.5*	*82.8*		*10.0-148*				
(S) Tetrachloro-m-xylene					*62.2*	*68.0*		*21.0-146*				

Method Blank (MB)

(MB) R3316083-3 06/06/18 12:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*68.1*			*10.0-148*
(S) Tetrachloro-m-xylene	*85.2*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316083-1 06/06/18 11:54 • (LCSD) R3316083-2 06/06/18 12:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0560	0.0577	84.0	86.5	55.0-137			2.98	29
Alpha BHC	0.0667	0.0576	0.0589	86.3	88.2	55.0-136			2.19	28
Beta BHC	0.0667	0.0567	0.0581	85.0	87.2	53.0-133			2.48	28
Delta BHC	0.0667	0.0614	0.0626	92.0	93.9	53.0-139			2.00	29
Gamma BHC	0.0667	0.0625	0.0639	93.7	95.8	54.0-136			2.17	29
4,4-DDD	0.0667	0.0581	0.0595	87.1	89.2	51.0-141			2.38	29
4,4-DDE	0.0667	0.0548	0.0562	82.2	84.3	53.0-142			2.60	30
4,4-DDT	0.0667	0.0625	0.0625	93.7	93.7	47.0-143			0.00848	30
Dieldrin	0.0667	0.0570	0.0584	85.4	87.6	54.0-141			2.45	29
Endosulfan I	0.0667	0.0539	0.0561	80.9	84.2	54.0-141			4.01	29

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316083-1 06/06/18 11:54 • (LCSD) R3316083-2 06/06/18 12:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0667	0.0534	0.0546	80.0	81.8	53.0-140			2.21	28
Endosulfan sulfate	0.0667	0.0549	0.0560	82.2	84.0	52.0-141			2.06	29
Endrin	0.0667	0.0564	0.0576	84.5	86.3	52.0-137			2.12	29
Endrin aldehyde	0.0667	0.0505	0.0520	75.6	78.0	30.0-127			3.02	31
Endrin ketone	0.0667	0.0579	0.0592	86.8	88.8	51.0-139			2.27	28
Heptachlor	0.0667	0.0642	0.0652	96.2	97.7	53.0-144			1.55	29
Heptachlor epoxide	0.0667	0.0575	0.0589	86.2	88.4	54.0-137			2.48	28
Hexachlorobenzene	0.0667	0.0588	0.0604	88.2	90.6	50.0-135			2.70	28
Methoxychlor	0.0667	0.0604	0.0608	90.5	91.2	49.0-145			0.683	29
(S) Decachlorobiphenyl				*70.2*	*70.7*	*10.0-148*				
(S) Tetrachloro-m-xylene				*86.1*	*86.6*	*21.0-146*				

L998248-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998248-21 06/06/18 13:08 • (MS) R3316083-4 06/06/18 13:21 • (MSD) R3316083-5 06/06/18 13:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0894	U	0.0710	0.0641	79.4	71.8	1	19.0-152			10.1	24
Alpha BHC	0.0894	U	0.0759	0.0696	84.9	77.9	1	39.0-152			8.67	21
Beta BHC	0.0894	U	0.0744	0.0675	83.3	75.5	1	38.0-150			9.81	20
Delta BHC	0.0894	U	0.0805	0.0723	90.0	80.9	1	34.0-155			10.7	21
Gamma BHC	0.0894	U	0.0827	0.0756	92.5	84.6	1	38.0-153			8.93	21
4,4-DDD	0.0894	U	0.0735	0.0660	82.3	73.8	1	22.0-160			10.9	25
4,4-DDE	0.0894	U	0.0683	0.0612	76.4	68.4	1	10.0-160			11.0	27
4,4-DDT	0.0894	U	0.0803	0.0748	89.8	83.7	1	10.0-160			7.07	28
Dieldrin	0.0894	U	0.0727	0.0654	81.4	73.2	1	30.0-158			10.6	25
Endosulfan I	0.0894	U	0.0700	0.0629	78.3	70.4	1	31.0-155			10.7	25
Endosulfan II	0.0894	U	0.0682	0.0607	76.3	68.0	1	32.0-156			11.5	25
Endosulfan sulfate	0.0894	U	0.0706	0.0630	79.0	70.5	1	31.0-158			11.4	24
Endrin	0.0894	U	0.0746	0.0690	83.5	77.2	1	30.0-149			7.77	25
Endrin aldehyde	0.0894	U	0.0657	0.0581	73.5	65.0	1	20.0-157			12.3	26
Endrin ketone	0.0894	U	0.0739	0.0659	82.7	73.7	1	32.0-154			11.5	23
Heptachlor	0.0894	U	0.0839	0.0779	93.9	87.2	1	18.0-160			7.44	23
Heptachlor epoxide	0.0894	U	0.0743	0.0672	83.1	75.1	1	31.0-154			10.0	25
Hexachlorobenzene	0.0894	U	0.0757	0.0686	84.7	76.8	1	26.0-146			9.86	21
Methoxychlor	0.0894	U	0.0772	0.0717	86.4	80.2	1	10.0-160			7.41	27
(S) Decachlorobiphenyl					*67.6*	*61.7*		*10.0-148*				
(S) Tetrachloro-m-xylene					*84.1*	*77.9*		*21.0-146*				

Method Blank (MB)

(MB) R3316257-3 06/07/18 16:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*75.7*			*10.0-148*
(S) Tetrachloro-m-xylene	*88.5*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316257-1 06/07/18 15:45 • (LCSD) R3316257-2 06/07/18 15:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0537	0.0560	80.6	83.9	55.0-137			4.09	29
Alpha BHC	0.0667	0.0542	0.0565	81.3	84.6	55.0-136			4.00	28
Beta BHC	0.0667	0.0496	0.0518	74.4	77.7	53.0-133			4.34	28
Delta BHC	0.0667	0.0510	0.0554	76.5	83.1	53.0-139			8.28	29
Gamma BHC	0.0667	0.0523	0.0546	78.4	81.8	54.0-136			4.25	29
4,4-DDD	0.0667	0.0579	0.0609	86.8	91.3	51.0-141			5.11	29
4,4-DDE	0.0667	0.0526	0.0551	78.9	82.6	53.0-142			4.61	30
4,4-DDT	0.0667	0.0435	0.0454	65.3	68.1	47.0-143			4.17	30
Dieldrin	0.0667	0.0537	0.0563	80.5	84.4	54.0-141			4.72	29
Endosulfan I	0.0667	0.0522	0.0547	78.3	82.0	54.0-141			4.62	29

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316257-1 06/07/18 15:45 • (LCSD) R3316257-2 06/07/18 15:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0667	0.0520	0.0545	78.0	81.8	53.0-140			4.75	28
Endosulfan sulfate	0.0667	0.0510	0.0534	76.4	80.0	52.0-141			4.56	29
Endrin	0.0667	0.0526	0.0551	78.9	82.6	52.0-137			4.59	29
Endrin aldehyde	0.0667	0.0475	0.0499	71.2	74.9	30.0-127			5.02	31
Endrin ketone	0.0667	0.0526	0.0550	78.8	82.4	51.0-139			4.50	28
Heptachlor	0.0667	0.0523	0.0549	78.4	82.3	53.0-144			4.85	29
Heptachlor epoxide	0.0667	0.0521	0.0552	78.1	82.7	54.0-137			5.77	28
Hexachlorobenzene	0.0667	0.0496	0.0514	74.4	77.1	50.0-135			3.49	28
Methoxychlor	0.0667	0.0462	0.0476	69.2	71.4	49.0-145			3.17	29
(S) Decachlorobiphenyl				*69.1*	*74.9*	*10.0-148*				
(S) Tetrachloro-m-xylene				*82.6*	*89.2*	*21.0-146*				

L998648-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998648-02 06/07/18 19:26 • (MS) R3316418-1 06/07/18 19:41 • (MSD) R3316418-2 06/07/18 19:55

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0771	U	0.0689	0.0516	89.4	66.9	1	19.0-152		J3	28.8	24
Alpha BHC	0.0771	U	0.0715	0.0559	92.7	72.5	1	39.0-152		J3	24.5	21
Beta BHC	0.0771	U	0.0714	0.0566	92.6	73.4	1	38.0-150		J3	23.2	20
Delta BHC	0.0771	U	0.0726	0.0568	94.2	73.7	1	34.0-155		J3	24.4	21
Gamma BHC	0.0771	U	0.0708	0.0556	91.9	72.1	1	38.0-153		J3	24.2	21
4,4-DDD	0.0771	U	0.0779	0.0597	101	77.5	1	22.0-160		J3	26.4	25
4,4-DDE	0.0771	U	0.0718	0.0540	93.1	70.0	1	10.0-160		J3	28.3	27
4,4-DDT	0.0771	U	0.0784	0.0587	102	76.2	1	10.0-160		J3	28.7	28
Dieldrin	0.0771	U	0.0741	0.0577	96.1	74.8	1	30.0-158			24.9	25
Endosulfan I	0.0771	U	0.0684	0.0532	88.6	69.0	1	31.0-155			25.0	25
Endosulfan II	0.0771	U	0.0718	0.0559	93.1	72.5	1	32.0-156			24.9	25
Endosulfan sulfate	0.0771	U	0.0784	0.0629	102	81.6	1	31.0-158			22.0	24
Endrin	0.0771	U	0.0778	0.0609	101	79.0	1	30.0-149			24.3	25
Endrin aldehyde	0.0771	U	0.0703	0.0525	91.2	68.1	1	20.0-157		J3	29.0	26
Endrin ketone	0.0771	U	0.0850	0.0665	110	86.3	1	32.0-154		J3	24.3	23
Heptachlor	0.0771	U	0.0721	0.0545	93.6	70.6	1	18.0-160		J3	27.9	23
Heptachlor epoxide	0.0771	U	0.0704	0.0543	91.3	70.4	1	31.0-154		J3	25.9	25
Hexachlorobenzene	0.0771	U	0.0662	0.0509	85.9	66.0	1	26.0-146		J3	26.2	21
Methoxychlor	0.0771	U	0.0822	0.0619	107	80.2	1	10.0-160		J3	28.2	27
(S) Decachlorobiphenyl					*103*	*67.0*		*10.0-148*				
(S) Tetrachloro-m-xylene					*85.6*	*60.8*		*21.0-146*				

Method Blank (MB)

(MB) R3316019-1 06/06/18 14:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
(S) Decachlorobiphenyl	*97.1*			*10.0-148*
(S) Tetrachloro-m-xylene	*85.1*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316019-2 06/06/18 14:57 • (LCSD) R3316019-3 06/06/18 15:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.167	0.133	0.154	79.6	92.6	37.0-145			15.2	37
PCB 1016	0.167	0.138	0.150	82.6	89.9	36.0-141			8.43	35
(S) Decachlorobiphenyl				*82.7*	*110*	*10.0-148*				
(S) Tetrachloro-m-xylene				*83.6*	*89.0*	*21.0-146*				

L998278-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998278-01 06/06/18 17:55 • (MS) R3316019-4 06/06/18 18:08 • (MSD) R3316019-5 06/06/18 18:22

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.185	U	0.127	0.138	68.6	74.6	1	10.0-160			8.37	31
PCB 1016	0.185	U	0.132	0.133	71.4	72.0	1	17.0-160			0.738	30
(S) Decachlorobiphenyl					*69.5*	*81.1*		*10.0-148*				
(S) Tetrachloro-m-xylene					*77.8*	*74.9*		*21.0-146*				

Method Blank (MB)

(MB) R3315791-1 06/05/18 15:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
(S) Decachlorobiphenyl	*31.5*			*10.0-148*
(S) Tetrachloro-m-xylene	*60.0*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315791-2 06/05/18 16:12 • (LCSD) R3315791-3 06/05/18 16:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.167	0.114	0.0924	68.2	55.4	37.0-145			20.7	37
PCB 1016	0.167	0.148	0.115	88.7	69.0	36.0-141			24.9	35
(S) Decachlorobiphenyl				*39.7*	*34.3*	*10.0-148*				
(S) Tetrachloro-m-xylene				*75.4*	*68.3*	*21.0-146*				

L998797-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998797-01 06/05/18 16:39 • (MS) R3315791-4 06/05/18 16:53 • (MSD) R3315791-5 06/05/18 17:07

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.167	ND	3.12	1.85	1330	570	1	10.0-160	V	J3 V	51.2	31
PCB 1016	0.167	ND	3.67	2.20	1610	728	1	17.0-160	P V	J3 V	50.3	30
(S) Decachlorobiphenyl					*37.4*	*36.9*		*10.0-148*				
(S) Tetrachloro-m-xylene					*68.5*	*71.5*		*21.0-146*				

Method Blank (MB)

(MB) R3316158-3 06/05/18 00:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0330
Acenaphthylene	U		0.00671	0.0330
Anthracene	U		0.00632	0.0330
Benzidine	U		0.0637	0.333
Benzo(a)anthracene	U		0.00428	0.0330
Benzo(b)fluoranthene	U		0.00695	0.0330
Benzo(k)fluoranthene	U		0.00582	0.0330
Benzo(g,h,i)perylene	U		0.00721	0.0330
Benzo(a)pyrene	U		0.00548	0.0330
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0330
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	U		0.00555	0.0330
Dibenz(a,h)anthracene	U		0.00821	0.0330
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	U		0.00496	0.0330
Fluorene	U		0.00682	0.0330
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0330
Isophorone	U		0.00522	0.333
Naphthalene	U		0.00889	0.0330
Nitrobenzene	U		0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	U		0.00594	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	U		0.00528	0.0330
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	0.0543	J	0.0120	0.333
Di-n-butyl phthalate	U		0.0109	0.333
Diethyl phthalate	U		0.00691	0.333
Dimethyl phthalate	U		0.00540	0.333
Di-n-octyl phthalate	U		0.00907	0.333

Method Blank (MB)

(MB) R3316158-3 06/05/18 00:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.0123	0.0330
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	U		0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	*71.9*			*18.0-125*
(S) 2-Fluorobiphenyl	*74.4*			*28.0-120*
(S) p-Terphenyl-d14	*87.6*			*13.0-131*
(S) Phenol-d5	*63.7*			*20.0-120*
(S) 2-Fluorophenol	*75.1*			*20.0-120*
(S) 2,4,6-Tribromophenol	*67.0*			*17.0-137*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316158-1 06/04/18 23:28 • (LCSD) R3316158-2 06/04/18 23:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	0.470	0.432	70.5	64.8	47.0-120			8.33	21
Acenaphthylene	0.667	0.501	0.453	75.1	67.9	48.0-120			10.2	21
Anthracene	0.667	0.454	0.406	68.0	60.9	46.0-120			11.1	20
Benzidine	0.667	ND	ND	0.000	0.000	1.00-120	J4	J4	0.000	36
Benzo(a)anthracene	0.667	0.544	0.520	81.6	78.0	46.0-120			4.56	20
Benzo(b)fluoranthene	0.667	0.488	0.447	73.2	67.0	45.0-120			8.86	22
Benzo(k)fluoranthene	0.667	0.507	0.434	76.0	65.0	45.0-120			15.6	23
Benzo(g,h,i)perylene	0.667	0.548	0.510	82.2	76.5	48.0-120			7.21	21
Benzo(a)pyrene	0.667	0.507	0.446	76.0	66.8	46.0-120			12.9	21
Bis(2-chlorethoxy)methane	0.667	0.352	0.318	52.8	47.6	41.0-120			10.4	22
Bis(2-chloroethyl)ether	0.667	0.446	0.395	66.9	59.3	28.0-120			12.1	28
Bis(2-chloroisopropyl)ether	0.667	0.404	0.359	60.6	53.8	40.0-120			11.9	27
4-Bromophenyl-phenylether	0.667	0.516	0.455	77.4	68.2	45.0-120			12.6	20
2-Chloronaphthalene	0.667	0.488	0.439	73.2	65.9	43.0-120			10.6	22

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316158-1 06/04/18 23:28 • (LCSD) R3316158-2 06/04/18 23:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.667	0.487	0.440	73.0	65.9	46.0-120			10.1	21
Chrysene	0.667	0.530	0.492	79.4	73.8	46.0-120			7.34	20
Dibenz(a,h)anthracene	0.667	0.554	0.511	83.0	76.6	47.0-120			8.09	22
3,3-Dichlorobenzidine	0.667	0.424	0.421	63.6	63.0	20.0-130			0.935	24
2,4-Dinitrotoluene	0.667	0.557	0.500	83.5	75.0	48.0-122			10.8	21
2,6-Dinitrotoluene	0.667	0.507	0.462	76.0	69.2	46.0-120			9.34	21
Fluoranthene	0.667	0.503	0.446	75.4	66.8	46.0-120			12.0	20
Fluorene	0.667	0.468	0.424	70.2	63.6	47.0-120			9.94	20
Hexachlorobenzene	0.667	0.521	0.486	78.2	72.8	42.0-120			7.04	20
Hexachloro-1,3-butadiene	0.667	0.418	0.364	62.7	54.5	36.0-120			14.0	26
Hexachlorocyclopentadiene	0.667	0.431	0.402	64.7	60.2	20.0-124			7.09	26
Hexachloroethane	0.667	0.421	0.363	63.1	54.4	32.0-120			14.8	31
Indeno(1,2,3-cd)pyrene	0.667	0.564	0.528	84.6	79.2	48.0-120			6.65	21
Isophorone	0.667	0.399	0.367	59.8	55.0	42.0-120			8.42	21
Naphthalene	0.667	0.370	0.337	55.5	50.5	41.0-120			9.48	24
Nitrobenzene	0.667	0.403	0.364	60.4	54.5	36.0-120			10.3	24
n-Nitrosodimethylamine	0.667	0.567	0.416	85.1	62.4	20.0-120			30.8	31
n-Nitrosodiphenylamine	0.667	0.462	0.437	69.2	65.5	42.0-120			5.56	20
n-Nitrosodi-n-propylamine	0.667	0.481	0.418	72.1	62.7	39.0-120			13.9	23
Phenanthrene	0.667	0.483	0.432	72.5	64.8	45.0-120			11.2	20
Benzylbutyl phthalate	0.667	0.491	0.458	73.6	68.7	41.0-123			6.98	20
Bis(2-ethylhexyl)phthalate	0.667	0.553	0.519	83.0	77.9	41.0-124			6.32	20
Di-n-butyl phthalate	0.667	0.533	0.469	79.9	70.3	44.0-120			12.9	20
Diethyl phthalate	0.667	0.524	0.478	78.6	71.7	46.0-120			9.08	20
Dimethyl phthalate	0.667	0.495	0.459	74.2	68.8	47.0-120			7.47	21
Di-n-octyl phthalate	0.667	0.573	0.544	85.8	81.5	40.0-123			5.16	21
Pyrene	0.667	0.511	0.479	76.7	71.8	45.0-120			6.60	21
1,2,4-Trichlorobenzene	0.667	0.388	0.344	58.1	51.6	40.0-120			11.9	25
4-Chloro-3-methylphenol	0.667	0.392	0.359	58.8	53.9	46.0-120			8.73	20
2-Chlorophenol	0.667	0.462	0.399	69.3	59.9	37.0-120			14.6	27
2,4-Dichlorophenol	0.667	0.439	0.376	65.9	56.4	45.0-120			15.6	21
2,4-Dimethylphenol	0.667	0.370	0.345	55.5	51.7	40.0-120			7.04	22
4,6-Dinitro-2-methylphenol	0.667	0.622	0.556	93.2	83.4	34.0-120			11.1	23
2,4-Dinitrophenol	0.667	0.424	0.421	63.5	63.2	10.0-120			0.556	30
2-Nitrophenol	0.667	0.427	0.385	64.0	57.7	42.0-120			10.3	24
4-Nitrophenol	0.667	0.411	0.357	61.6	53.5	40.0-120			14.1	21
Pentachlorophenol	0.667	0.406	0.357	60.8	53.6	33.0-122			12.7	22
Phenol	0.667	0.450	0.386	67.4	57.9	38.0-120			15.3	25
2,4,6-Trichlorophenol	0.667	0.515	0.486	77.1	72.9	47.0-120			5.71	22
(S) Nitrobenzene-d5				*61.0*	*53.6*	*18.0-125*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316158-1 06/04/18 23:28 • (LCSD) R3316158-2 06/04/18 23:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorobiphenyl				*72.1*	*61.6*	*28.0-120*				
(S) p-Terphenyl-d14				*86.7*	*78.3*	*13.0-131*				
(S) Phenol-d5				*61.9*	*54.2*	*20.0-120*				
(S) 2-Fluorophenol				*74.0*	*65.0*	*20.0-120*				
(S) 2,4,6-Tribromophenol				*70.8*	*66.3*	*17.0-137*				

L998278-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998278-08 06/05/18 03:09 • (MS) R3316158-4 06/05/18 03:37 • (MSD) R3316158-5 06/05/18 04:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.729	U	0.417	0.478	57.2	65.5	1	37.0-120			13.6	23
Acenaphthylene	0.729	U	0.429	0.488	58.9	67.0	1	41.0-120			12.9	22
Anthracene	0.729	U	0.459	0.483	63.1	66.3	1	30.0-123			4.98	25
Benzidine	0.729	U	ND	ND	0.000	0.000	1	1.00-120	J6	J6	0.000	36
Benzo(a)anthracene	0.729	U	0.522	0.515	71.6	70.7	1	21.0-123			1.21	26
Benzo(b)fluoranthene	0.729	U	0.447	0.468	61.4	64.2	1	20.0-127			4.40	29
Benzo(k)fluoranthene	0.729	U	0.454	0.499	62.3	68.4	1	22.0-123			9.44	28
Benzo(g,h,i)perylene	0.729	U	0.363	0.315	49.8	43.2	1	10.0-120			14.1	32
Benzo(a)pyrene	0.729	U	0.462	0.490	63.4	67.3	1	23.0-120			5.93	27
Bis(2-chlorethoxy)methane	0.729	U	0.255	0.332	35.0	45.5	1	37.0-120	J6	J3	26.0	22
Bis(2-chloroethyl)ether	0.729	U	0.278	0.380	38.2	52.1	1	26.0-120		J3	30.9	27
Bis(2-chloroisopropyl)ether	0.729	U	0.291	0.346	39.9	47.5	1	35.0-120			17.4	25
4-Bromophenyl-phenylether	0.729	U	0.493	0.525	67.7	72.1	1	34.0-120			6.28	23
2-Chloronaphthalene	0.729	U	0.397	0.466	54.4	64.0	1	40.0-120			16.1	22
4-Chlorophenyl-phenylether	0.729	U	0.456	0.504	62.6	69.2	1	37.0-120			10.0	23
Chrysene	0.729	U	0.519	0.514	71.2	70.5	1	19.0-127			0.952	27
Dibenz(a,h)anthracene	0.729	U	0.409	0.373	56.2	51.1	1	10.0-120			9.38	28
3,3-Dichlorobenzidine	0.729	U	0.408	0.376	55.9	51.6	1	10.0-142			8.10	30
2,4-Dinitrotoluene	0.729	U	0.533	0.584	73.2	80.2	1	37.0-129			9.14	24
2,6-Dinitrotoluene	0.729	U	0.461	0.513	63.3	70.4	1	40.0-120			10.6	23
Fluoranthene	0.729	U	0.515	0.556	70.7	76.3	1	20.0-133			7.60	28
Fluorene	0.729	U	0.442	0.497	60.7	68.2	1	35.0-120			11.6	23
Hexachlorobenzene	0.729	U	0.525	0.533	72.0	73.2	1	33.0-120			1.63	24
Hexachloro-1,3-butadiene	0.729	U	0.319	0.358	43.8	49.2	1	33.0-120			11.6	25
Hexachlorocyclopentadiene	0.729	U	0.260	0.297	35.7	40.8	1	10.0-120			13.4	33
Hexachloroethane	0.729	U	0.302	0.338	41.4	46.4	1	21.0-120			11.4	30
Indeno(1,2,3-cd)pyrene	0.729	U	0.410	0.373	56.2	51.2	1	10.0-120			9.30	30
Isophorone	0.729	U	0.298	0.374	40.8	51.4	1	38.0-120		J3	22.8	22

L998278-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998278-08 06/05/18 03:09 • (MS) R3316158-4 06/05/18 03:37 • (MSD) R3316158-5 06/05/18 04:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.729	U	0.289	0.338	39.6	46.4	1	37.0-120			15.7	25
Nitrobenzene	0.729	U	0.270	0.365	37.1	50.1	1	32.0-120		J3	29.9	24
n-Nitrosodimethylamine	0.729	U	0.351	0.327	48.1	44.8	1	18.0-120			7.06	27
n-Nitrosodiphenylamine	0.729	U	0.459	0.479	63.0	65.8	1	20.0-125			4.30	25
n-Nitrosodi-n-propylamine	0.729	U	0.322	0.413	44.2	56.7	1	34.0-120		J3	24.6	23
Phenanthrene	0.729	U	0.484	0.507	66.4	69.5	1	24.0-124			4.67	25
Benzylbutyl phthalate	0.729	U	0.485	0.474	66.6	65.0	1	18.0-130			2.39	27
Bis(2-ethylhexyl)phthalate	0.729	0.0654	0.541	0.549	65.3	66.3	1	19.0-127			1.41	28
Di-n-butyl phthalate	0.729	U	0.539	0.560	74.0	76.9	1	29.0-120			3.90	26
Diethyl phthalate	0.729	U	0.522	0.552	71.6	75.8	1	42.0-121			5.63	23
Dimethyl phthalate	0.729	U	0.461	0.504	63.2	69.1	1	42.0-120			8.93	23
Di-n-octyl phthalate	0.729	U	0.592	0.591	81.3	81.1	1	21.0-122			0.263	27
Pyrene	0.729	U	0.473	0.463	64.9	63.5	1	19.0-127			2.10	29
1,2,4-Trichlorobenzene	0.729	U	0.302	0.360	41.4	49.4	1	39.0-120			17.6	25
4-Chloro-3-methylphenol	0.729	U	0.371	0.429	50.9	58.8	1	37.0-121			14.5	23
2-Chlorophenol	0.729	U	0.297	0.393	40.7	53.9	1	34.0-120		J3	28.0	25
2,4-Dichlorophenol	0.729	U	0.335	0.378	46.0	51.9	1	41.0-120			12.1	22
2,4-Dimethylphenol	0.729	U	0.307	0.365	42.1	50.1	1	27.0-120			17.4	25
4,6-Dinitro-2-methylphenol	0.729	U	0.544	0.650	74.6	89.3	1	10.0-131			17.9	29
2,4-Dinitrophenol	0.729	U	0.407	0.472	55.8	64.8	1	10.0-142			14.8	30
2-Nitrophenol	0.729	U	0.291	0.388	40.0	53.2	1	34.0-124		J3	28.5	27
4-Nitrophenol	0.729	U	0.427	0.503	58.6	69.0	1	26.0-133			16.4	25
Pentachlorophenol	0.729	U	0.454	0.527	62.2	72.4	1	15.0-152			15.0	26
Phenol	0.729	U	0.209	0.395	28.7	54.1	1	33.0-120	J6	J3	61.6	24
2,4,6-Trichlorophenol	0.729	U	0.489	0.549	67.2	75.4	1	40.0-125			11.5	24
(S) Nitrobenzene-d5					*37.3*	*54.1*		*18.0-125*				
(S) 2-Fluorobiphenyl					*48.9*	*63.3*		*28.0-120*				
(S) p-Terphenyl-d14					*70.9*	*72.9*		*13.0-131*				
(S) Phenol-d5					*23.6*	*50.9*		*20.0-120*				
(S) 2-Fluorophenol					*47.8*	*58.7*		*20.0-120*				
(S) 2,4,6-Tribromophenol					*64.7*	*72.1*		*17.0-137*				

Method Blank (MB)

(MB) R3315744-3 06/05/18 10:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	U		0.000600	0.00600
Benzo(g,h,i)perylene	U		0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	U		0.00200	0.0200
Phenanthrene	U		0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) Nitrobenzene-d5	*121*			*14.0-149*
(S) 2-Fluorobiphenyl	*96.9*			*34.0-125*
(S) p-Terphenyl-d14	*90.9*			*23.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315744-1 06/05/18 09:32 • (LCSD) R3315744-2 06/05/18 09:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	0.0806	0.0778	101	97.2	50.0-125			3.53	20
Acenaphthene	0.0800	0.0713	0.0709	89.1	88.6	52.0-120			0.538	20
Acenaphthylene	0.0800	0.0770	0.0779	96.3	97.4	51.0-120			1.15	20
Benzo(a)anthracene	0.0800	0.0727	0.0722	90.8	90.3	46.0-121			0.635	20
Benzo(a)pyrene	0.0800	0.0614	0.0593	76.7	74.1	42.0-121			3.51	20
Benzo(b)fluoranthene	0.0800	0.0709	0.0700	88.6	87.6	42.0-123			1.20	20
Benzo(g,h,i)perylene	0.0800	0.0691	0.0682	86.4	85.2	43.0-128			1.42	20
Benzo(k)fluoranthene	0.0800	0.0754	0.0759	94.2	94.9	45.0-128			0.705	20
Chrysene	0.0800	0.0770	0.0750	96.3	93.8	48.0-127			2.61	20
Dibenz(a,h)anthracene	0.0800	0.0695	0.0685	86.9	85.6	43.0-132			1.52	20
Fluoranthene	0.0800	0.0805	0.0814	101	102	49.0-129			1.09	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315744-1 06/05/18 09:32 • (LCSD) R3315744-2 06/05/18 09:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Fluorene	0.0800	0.0766	0.0756	95.7	94.5	50.0-120			1.31	20
Indeno(1,2,3-cd)pyrene	0.0800	0.0698	0.0687	87.3	85.9	44.0-131			1.58	20
Naphthalene	0.0800	0.0726	0.0724	90.7	90.6	50.0-120			0.210	20
Phenanthrene	0.0800	0.0744	0.0729	92.9	91.2	48.0-120			1.94	20
Pyrene	0.0800	0.0698	0.0696	87.2	87.0	48.0-135			0.231	20
1-Methylnaphthalene	0.0800	0.0778	0.0751	97.3	93.8	52.0-122			3.61	20
2-Methylnaphthalene	0.0800	0.0753	0.0727	94.2	90.9	52.0-120			3.49	20
2-Chloronaphthalene	0.0800	0.0732	0.0740	91.5	92.5	50.0-120			1.11	20
(S) Nitrobenzene-d5				*128*	*129*	*14.0-149*				
(S) 2-Fluorobiphenyl				*98.6*	*100*	*34.0-125*				
(S) p-Terphenyl-d14				*89.0*	*91.7*	*23.0-120*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
P	RPD between the primary and confirmatory analysis exceeded 40%.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

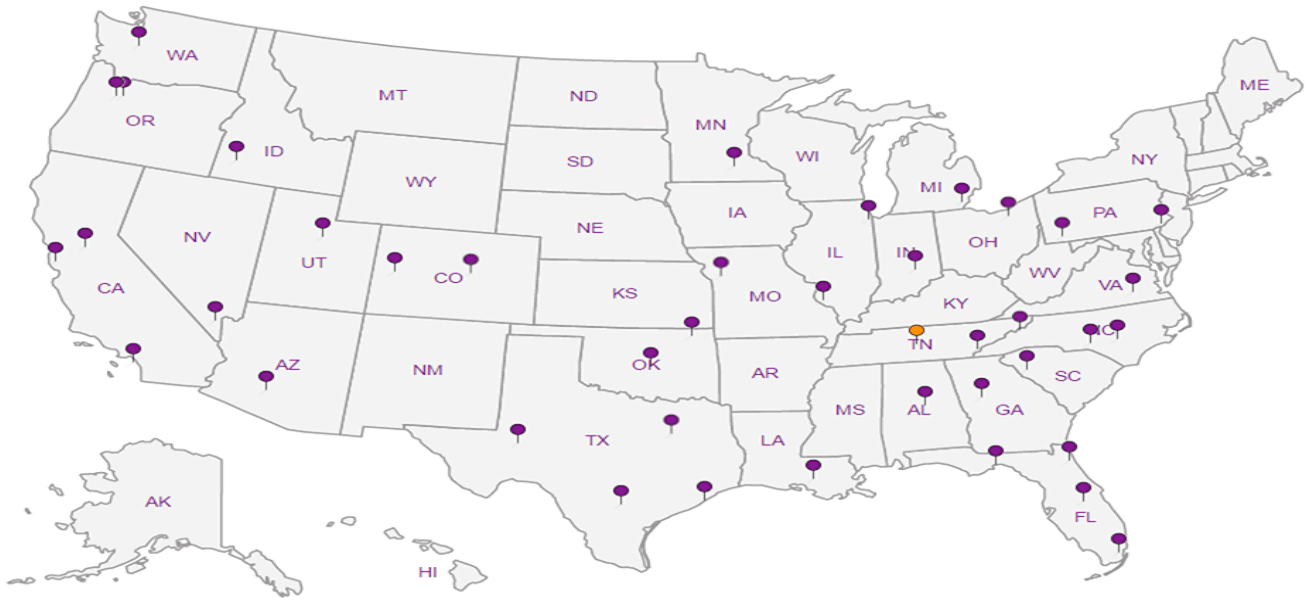
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



Setc

McCloskey Consultants Inc

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LAB SCIENCES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Tom McCloskey / Chris Vertin

Email To: Tom McCloskey / Chris Vertin

Project Description: Taft Community School

City/State Collected: Redwood City CA

Phone: 925.786.2647
Fax:

Client Project #

Lab Project #

L# L998267

Table # B163

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Acctnum:

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Template:

Prelogin:

TSR:

PB:

Immediately Packed on Ice N ___ Y X

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPs 8081A	Arsenic	Lead	PCBs 8082	Remarks	Sample # (lab only)
H-1	Grab	SS	0-½'	5.25.18	12:18	1	X	X	X	X		-01
H-1	Grab	SS	2-2½	5.29.18	10:08	1	X					-02
H-2	Grab	SS	0-½'	5.25.18	12:08	1	X	X	X	X		-03
H-2	Grab	SS	2-2½	5.29.18	10:00	1	X					-04
SS-1	Grab	SS	0-½'	5.25.18	12:32	1	X	X	X			-05
SS-1A	1	1	1-1½	1	15:23	1	X	X	X			-06
SS-2	Grab	SS	0-½	5.25.18	12:44	1	X	X	X			-07
~~SS-2~~												
SS-1B	Grab	SS	1-1½	5.25.18	15:26	1	X	X	X			-08
T-1	1	1	0.5-0.75'	5.25.18	15:06	1	~~X~~ Removed CMV 5.31.18			X		-09

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other _____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4269 9210 4509

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes (No) HCL / MeoH TBR
	5/31/18	1440	ESC	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.2 °C Bottles Received: 13
ESC	5/31/18	1630	FedEx	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6/1/18 Time: 8:45
				Hold: Condition: NCF / OK

Set C

McCloskey Consultants Inc.

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LAB SCIENCES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Tom McCloskey / Chris Vertin

Email To: TomMcCloskey/ChrisVertin

Project Description: Taft Community School

City/State Collected: Redwood City CA

Phone: 925-786-2467
Fax:

Client Project #

Lab Project #

L# L998267

Table #

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Acctnum:

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Template:

Prelogin:

TSR:

PB:

Immediately
Packed on Ice N ___ Y X

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPs + PCBs	OCPs	Arsenic	Lead	CAM 17	PAHs 8270 SIM	Semi VOCs 8270				Remarks	Sample # (lab only)
H-3	Grab	SS	1-1½	5.29.18	11:10	1	X		X	X								-10
H-3	"	"	2-2½	"	11:15	"		X										-11
H-4	"	"	1-1½	"	11:00	"	X				X	X	X					-12
H-4	"	"	2-2½	"	11:04	"		X										-13
																		-

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ____ Temp ____

Flow ____ Other ____

Samples returned via:
__ UPS __ FedEx __ Courier __ ____

Tracking # 4269 9210 4509

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	5/31/18	1440	ESC
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
ESC	5/31/18	1630	FedEx
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 1.2 °C Bottles Received:

Date: 6/1/18 Time: 8:45

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

June 08, 2018

McCloskey Consulting - Danville, CA

Sample Delivery Group:	L998278
Samples Received:	06/01/2018
Project Number:	
Description:	Taft Community School

Report To:

Tom McCloskey
420 Sycamore Valley Rd West
Danville, CA 94526

Entire Report Reviewed By:

Brian Ford
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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BP-1 L998278-01 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 17:33 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119707	1	06/05/18 09:38	06/05/18 09:52	JD
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 22:57	CCE
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 16:06	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 17:55	TD

BP-3 L998278-02 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 17:07 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119707	1	06/05/18 09:38	06/05/18 09:52	JD
Mercury by Method 7471A	WG1119382	1	06/03/18 11:34	06/05/18 00:00	EL
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:01	CCE
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 13:39	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 18:36	TD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1119399	1	06/04/18 17:36	06/05/18 02:14	AO
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1119426	1	06/06/18 13:14	06/06/18 22:37	ADF

BP-7 L998278-03 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 15:20 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119707	1	06/05/18 09:38	06/05/18 09:52	JD
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:10	CCE
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 13:54	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 18:49	TD

BP-8A L998278-04 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 15:32 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119707	1	06/05/18 09:38	06/05/18 09:52	JD
Mercury by Method 7471A	WG1119382	1	06/03/18 11:34	06/05/18 00:02	EL
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:14	CCE
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 15:07	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 19:03	TD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1119399	1	06/04/18 17:36	06/05/18 02:42	AO
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1119426	1	06/06/18 13:14	06/07/18 11:01	ADF

BP-8B L998278-05 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 15:35 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119707	1	06/05/18 09:38	06/05/18 09:52	JD
Mercury by Method 7471A	WG1119382	1	06/03/18 11:34	06/05/18 00:10	EL
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:17	CCE
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 15:52	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 19:17	TD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1119399	10	06/04/18 17:36	06/05/18 06:51	AO
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1119426	1	06/06/18 13:14	06/07/18 11:22	ADF

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

BP-9 L998278-06 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 13:15 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119707	1	06/05/18 09:38	06/05/18 09:52	JD
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:20	CCE
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 15:22	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 19:30	TD

BP-10 L998278-07 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 13:40 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119707	1	06/05/18 09:38	06/05/18 09:52	JD
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:24	CCE
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 14:08	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 19:44	TD

BP-12 L998278-08 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 11:40 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119707	1	06/05/18 09:38	06/05/18 09:52	JD
Mercury by Method 7471A	WG1119382	1	06/03/18 11:34	06/05/18 00:12	EL
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 22:40	CCE
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 14:23	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 19:58	TD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1119399	1	06/04/18 17:36	06/05/18 03:09	AO
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1119426	1	06/06/18 13:14	06/06/18 22:58	ADF

BP-13 L998278-09 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 14:22 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119707	1	06/05/18 09:38	06/05/18 09:52	JD
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:27	CCE
Pesticides (GC) by Method 8081	WG1119415	1	06/06/18 06:36	06/06/18 14:38	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1119415	1	06/06/18 06:36	06/06/18 20:12	TD

BP-14 L998278-10 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 14:30 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119707	1	06/05/18 09:38	06/05/18 09:52	JD
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:30	CCE
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 21:39	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1120256	1	06/05/18 21:30	06/06/18 16:40	TD

BP-15 L998278-11 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 15:08 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119708	1	06/05/18 14:54	06/05/18 15:04	JD
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:33	CCE
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/08/18 00:20	TD

BP-15 L998278-11 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 15:08 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Polychlorinated Biphenyls (GC) by Method 8082	WG1120256	1	06/05/18 21:30	06/06/18 16:55	TD

BP-16 L998278-12 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 15:45 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119708	1	06/05/18 14:54	06/05/18 15:04	JD
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:37	CCE
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 21:53	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1120256	1	06/05/18 21:30	06/06/18 17:09	TD

BP-17 L998278-13 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 16:34 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119708	1	06/05/18 14:54	06/05/18 15:04	JD
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:40	CCE
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 22:08	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1120256	1	06/05/18 21:30	06/06/18 17:24	TD

BP-19 L998278-14 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 14:00 | Received date/time: 06/01/18 08:45

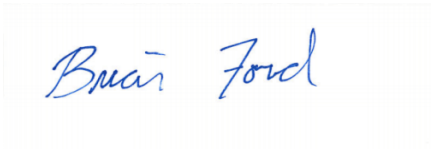
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119708	1	06/05/18 14:54	06/05/18 15:04	JD
Mercury by Method 7471A	WG1119382	1	06/03/18 11:34	06/05/18 00:15	EL
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:50	CCE
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 23:51	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1120256	1	06/05/18 21:30	06/07/18 10:18	TD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1119399	50	06/04/18 17:36	06/05/18 07:18	AO
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1119426	1	06/06/18 13:14	06/07/18 12:26	ADF

BP-20 L998278-15 Solid

Collected by: Chris Vertin | Collected date/time: 05/29/18 12:05 | Received date/time: 06/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1119708	1	06/05/18 14:54	06/05/18 15:04	JD
Metals (ICP) by Method 6010B	WG1119334	1	06/04/18 06:12	06/06/18 23:53	CCE
Pesticides (GC) by Method 8081	WG1120795	1	06/07/18 10:49	06/07/18 22:23	TD
Polychlorinated Biphenyls (GC) by Method 8082	WG1120256	1	06/05/18 21:30	06/07/18 10:32	TD

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.3		1	06/05/2018 09:52	WG1119707

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		0.720	2.21	1	06/06/2018 22:57	WG1119334
Lead	13.3		0.210	0.554	1	06/06/2018 22:57	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000258	0.0221	1	06/06/2018 16:06	WG1119415
Alpha BHC	U		0.000214	0.0221	1	06/06/2018 16:06	WG1119415
Beta BHC	U		0.000335	0.0221	1	06/06/2018 16:06	WG1119415
Delta BHC	U		0.000167	0.0221	1	06/06/2018 16:06	WG1119415
Gamma BHC	U		0.000271	0.0221	1	06/06/2018 16:06	WG1119415
4,4-DDD	U		0.000182	0.0221	1	06/06/2018 16:06	WG1119415
4,4-DDE	U		0.000183	0.0221	1	06/06/2018 16:06	WG1119415
4,4-DDT	0.00307	J	0.000294	0.0221	1	06/06/2018 16:06	WG1119415
Dieldrin	U		0.0000985	0.00221	1	06/06/2018 16:06	WG1119415
Endosulfan I	U		0.000237	0.0221	1	06/06/2018 16:06	WG1119415
Endosulfan II	U		0.000255	0.0221	1	06/06/2018 16:06	WG1119415
Endosulfan sulfate	U		0.000188	0.0221	1	06/06/2018 16:06	WG1119415
Endrin	U		0.000242	0.0221	1	06/06/2018 16:06	WG1119415
Endrin aldehyde	U		0.000268	0.0221	1	06/06/2018 16:06	WG1119415
Endrin ketone	U		0.000176	0.0221	1	06/06/2018 16:06	WG1119415
Heptachlor	U		0.000112	0.0221	1	06/06/2018 16:06	WG1119415
Heptachlor epoxide	U		0.000418	0.0221	1	06/06/2018 16:06	WG1119415
Hexachlorobenzene	U		0.000248	0.0221	1	06/06/2018 16:06	WG1119415
Methoxychlor	U		0.000293	0.0221	1	06/06/2018 16:06	WG1119415
Chlordane	0.127	J	0.0432	0.221	1	06/06/2018 16:06	WG1119415
Toxaphene	U		0.0399	0.443	1	06/06/2018 16:06	WG1119415
(S) Decachlorobiphenyl	*88.4*			*10.0-148*		*06/06/2018 16:06*	WG1119415
(S) Tetrachloro-m-xylene	*67.0*			*21.0-146*		*06/06/2018 16:06*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00387	0.0188	1	06/06/2018 17:55	WG1119415
PCB 1221	U		0.00595	0.0188	1	06/06/2018 17:55	WG1119415
PCB 1232	U		0.00462	0.0188	1	06/06/2018 17:55	WG1119415
PCB 1242	U		0.00352	0.0188	1	06/06/2018 17:55	WG1119415
PCB 1248	U		0.00349	0.0188	1	06/06/2018 17:55	WG1119415
PCB 1254	U		0.00523	0.0188	1	06/06/2018 17:55	WG1119415
PCB 1260	U		0.00547	0.0188	1	06/06/2018 17:55	WG1119415
(S) Decachlorobiphenyl	*80.4*			*10.0-148*		*06/06/2018 17:55*	WG1119415
(S) Tetrachloro-m-xylene	*76.8*			*21.0-146*		*06/06/2018 17:55*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.6		1	06/05/2018 09:52	WG1119707

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0371		0.00352	0.0251	1	06/05/2018 00:00	WG1119382

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.943	2.51	1	06/06/2018 23:01	WG1119334
Arsenic	4.68		0.817	2.51	1	06/06/2018 23:01	WG1119334
Barium	286		0.214	0.628	1	06/06/2018 23:01	WG1119334
Beryllium	1.11		0.0880	0.251	1	06/06/2018 23:01	WG1119334
Cadmium	0.139	J	0.0880	0.628	1	06/06/2018 23:01	WG1119334
Chromium	79.5		0.176	1.26	1	06/06/2018 23:01	WG1119334
Cobalt	16.2		0.289	1.26	1	06/06/2018 23:01	WG1119334
Copper	38.5		0.666	2.51	1	06/06/2018 23:01	WG1119334
Lead	11.6		0.239	0.628	1	06/06/2018 23:01	WG1119334
Molybdenum	U		0.201	0.628	1	06/06/2018 23:01	WG1119334
Nickel	70.6		0.616	2.51	1	06/06/2018 23:01	WG1119334
Selenium	U		0.930	2.51	1	06/06/2018 23:01	WG1119334
Silver	U		0.352	1.26	1	06/06/2018 23:01	WG1119334
Thallium	U		0.817	2.51	1	06/06/2018 23:01	WG1119334
Vanadium	88.2		0.302	2.51	1	06/06/2018 23:01	WG1119334
Zinc	87.1		0.741	6.28	1	06/06/2018 23:01	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000293	0.0251	1	06/06/2018 13:39	WG1119415
Alpha BHC	U		0.000243	0.0251	1	06/06/2018 13:39	WG1119415
Beta BHC	U		0.000381	0.0251	1	06/06/2018 13:39	WG1119415
Delta BHC	U		0.000190	0.0251	1	06/06/2018 13:39	WG1119415
Gamma BHC	U		0.000308	0.0251	1	06/06/2018 13:39	WG1119415
4,4-DDD	U		0.000206	0.0251	1	06/06/2018 13:39	WG1119415
4,4-DDE	U		0.000207	0.0251	1	06/06/2018 13:39	WG1119415
4,4-DDT	U		0.000334	0.0251	1	06/06/2018 13:39	WG1119415
Dieldrin	U		0.000112	0.00251	1	06/06/2018 13:39	WG1119415
Endosulfan I	U		0.000269	0.0251	1	06/06/2018 13:39	WG1119415
Endosulfan II	U		0.000289	0.0251	1	06/06/2018 13:39	WG1119415
Endosulfan sulfate	U		0.000214	0.0251	1	06/06/2018 13:39	WG1119415
Endrin	U		0.000275	0.0251	1	06/06/2018 13:39	WG1119415
Endrin aldehyde	U		0.000304	0.0251	1	06/06/2018 13:39	WG1119415
Endrin ketone	U		0.000200	0.0251	1	06/06/2018 13:39	WG1119415
Heptachlor	U		0.000127	0.0251	1	06/06/2018 13:39	WG1119415
Heptachlor epoxide	U		0.000475	0.0251	1	06/06/2018 13:39	WG1119415
Hexachlorobenzene	U		0.000281	0.0251	1	06/06/2018 13:39	WG1119415
Methoxychlor	U		0.000333	0.0251	1	06/06/2018 13:39	WG1119415
Chlordane	U		0.0490	0.251	1	06/06/2018 13:39	WG1119415
Toxaphene	U		0.0452	0.503	1	06/06/2018 13:39	WG1119415
(S) Decachlorobiphenyl	*69.1*			*10.0-148*		*06/06/2018 13:39*	WG1119415
(S) Tetrachloro-m-xylene	*73.2*			*21.0-146*		*06/06/2018 13:39*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00440	0.0214	1	06/06/2018 18:36	WG1119415
PCB 1221	U		0.00675	0.0214	1	06/06/2018 18:36	WG1119415
PCB 1232	U		0.00524	0.0214	1	06/06/2018 18:36	WG1119415
PCB 1242	U		0.00400	0.0214	1	06/06/2018 18:36	WG1119415
PCB 1248	U		0.00396	0.0214	1	06/06/2018 18:36	WG1119415
PCB 1254	U		0.00593	0.0214	1	06/06/2018 18:36	WG1119415
PCB 1260	U		0.00621	0.0214	1	06/06/2018 18:36	WG1119415
(S) Decachlorobiphenyl	*109*			*10.0-148*		*06/06/2018 18:36*	WG1119415
(S) Tetrachloro-m-xylene	*80.3*			*21.0-146*		*06/06/2018 18:36*	WG1119415

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00807	0.0415	1	06/05/2018 02:14	WG1119399
Acenaphthylene	U		0.00843	0.0415	1	06/05/2018 02:14	WG1119399
Anthracene	U		0.00794	0.0415	1	06/05/2018 02:14	WG1119399
Benzidine	U	J4	0.0800	0.418	1	06/05/2018 02:14	WG1119399
Benzo(a)anthracene	U		0.00538	0.0415	1	06/05/2018 02:14	WG1119399
Benzo(b)fluoranthene	U		0.00873	0.0415	1	06/05/2018 02:14	WG1119399
Benzo(k)fluoranthene	U		0.00731	0.0415	1	06/05/2018 02:14	WG1119399
Benzo(g,h,i)perylene	U		0.00906	0.0415	1	06/05/2018 02:14	WG1119399
Benzo(a)pyrene	U		0.00689	0.0415	1	06/05/2018 02:14	WG1119399
Bis(2-chlorethoxy)methane	U		0.00968	0.418	1	06/05/2018 02:14	WG1119399
Bis(2-chloroethyl)ether	U		0.0113	0.418	1	06/05/2018 02:14	WG1119399
Bis(2-chloroisopropyl)ether	U		0.00955	0.418	1	06/05/2018 02:14	WG1119399
4-Bromophenyl-phenylether	U		0.0143	0.418	1	06/05/2018 02:14	WG1119399
2-Chloronaphthalene	U		0.00803	0.0415	1	06/05/2018 02:14	WG1119399
4-Chlorophenyl-phenylether	U		0.00788	0.418	1	06/05/2018 02:14	WG1119399
Chrysene	U		0.00697	0.0415	1	06/05/2018 02:14	WG1119399
Dibenz(a,h)anthracene	U		0.0103	0.0415	1	06/05/2018 02:14	WG1119399
3,3-Dichlorobenzidine	U		0.0998	0.418	1	06/05/2018 02:14	WG1119399
2,4-Dinitrotoluene	U		0.00763	0.418	1	06/05/2018 02:14	WG1119399
2,6-Dinitrotoluene	U		0.00926	0.418	1	06/05/2018 02:14	WG1119399
Fluoranthene	U		0.00623	0.0415	1	06/05/2018 02:14	WG1119399
Fluorene	U		0.00857	0.0415	1	06/05/2018 02:14	WG1119399
Hexachlorobenzene	U		0.0108	0.418	1	06/05/2018 02:14	WG1119399
Hexachloro-1,3-butadiene	U		0.0126	0.418	1	06/05/2018 02:14	WG1119399
Hexachlorocyclopentadiene	U		0.0738	0.418	1	06/05/2018 02:14	WG1119399
Hexachloroethane	U		0.0168	0.418	1	06/05/2018 02:14	WG1119399
Indeno(1,2,3-cd)pyrene	U		0.00970	0.0415	1	06/05/2018 02:14	WG1119399
Isophorone	U		0.00656	0.418	1	06/05/2018 02:14	WG1119399
Naphthalene	U		0.0112	0.0415	1	06/05/2018 02:14	WG1119399
Nitrobenzene	U		0.00873	0.418	1	06/05/2018 02:14	WG1119399
n-Nitrosodimethylamine	U		0.0813	0.418	1	06/05/2018 02:14	WG1119399
n-Nitrosodiphenylamine	U		0.00746	0.418	1	06/05/2018 02:14	WG1119399
n-Nitrosodi-n-propylamine	U		0.0114	0.418	1	06/05/2018 02:14	WG1119399
Phenanthrene	U		0.00664	0.0415	1	06/05/2018 02:14	WG1119399
Benzylbutyl phthalate	U		0.0129	0.418	1	06/05/2018 02:14	WG1119399
Bis(2-ethylhexyl)phthalate	0.0694	B J	0.0151	0.418	1	06/05/2018 02:14	WG1119399
Di-n-butyl phthalate	U		0.0137	0.418	1	06/05/2018 02:14	WG1119399
Diethyl phthalate	U		0.00868	0.418	1	06/05/2018 02:14	WG1119399
Dimethyl phthalate	U		0.00679	0.418	1	06/05/2018 02:14	WG1119399
Di-n-octyl phthalate	U		0.0114	0.418	1	06/05/2018 02:14	WG1119399
Pyrene	U		0.0155	0.0415	1	06/05/2018 02:14	WG1119399
1,2,4-Trichlorobenzene	U		0.0110	0.418	1	06/05/2018 02:14	WG1119399
4-Chloro-3-methylphenol	U		0.00599	0.418	1	06/05/2018 02:14	WG1119399

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chlorophenol	U		0.0104	0.418	1	06/05/2018 02:14	WG1119399
2,4-Dichlorophenol	U		0.00937	0.418	1	06/05/2018 02:14	WG1119399
2,4-Dimethylphenol	U		0.0592	0.418	1	06/05/2018 02:14	WG1119399
4,6-Dinitro-2-methylphenol	U		0.156	0.418	1	06/05/2018 02:14	WG1119399
2,4-Dinitrophenol	U		0.123	0.418	1	06/05/2018 02:14	WG1119399
2-Nitrophenol	U		0.0163	0.418	1	06/05/2018 02:14	WG1119399
4-Nitrophenol	U		0.0660	0.418	1	06/05/2018 02:14	WG1119399
Pentachlorophenol	U		0.0603	0.418	1	06/05/2018 02:14	WG1119399
Phenol	U		0.00873	0.418	1	06/05/2018 02:14	WG1119399
2,4,6-Trichlorophenol	U		0.00979	0.418	1	06/05/2018 02:14	WG1119399
(S) 2-Fluorophenol	*44.3*			*20.0-120*		*06/05/2018 02:14*	WG1119399
(S) Phenol-d5	*31.1*			*20.0-120*		*06/05/2018 02:14*	WG1119399
(S) Nitrobenzene-d5	*45.8*			*18.0-125*		*06/05/2018 02:14*	WG1119399
(S) 2-Fluorobiphenyl	*55.8*			*28.0-120*		*06/05/2018 02:14*	WG1119399
(S) 2,4,6-Tribromophenol	*55.0*			*17.0-137*		*06/05/2018 02:14*	WG1119399
(S) p-Terphenyl-d14	*70.1*			*13.0-131*		*06/05/2018 02:14*	WG1119399

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Acenaphthene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Acenaphthylene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Benzo(a)anthracene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Benzo(a)pyrene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Benzo(b)fluoranthene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Benzo(g,h,i)perylene	0.00209	J	0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Benzo(k)fluoranthene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Chrysene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Dibenz(a,h)anthracene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Fluoranthene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Fluorene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Indeno(1,2,3-cd)pyrene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Naphthalene	0.00328	J	0.00251	0.0251	1	06/06/2018 22:37	WG1119426
Phenanthrene	0.00102	J	0.000754	0.00754	1	06/06/2018 22:37	WG1119426
Pyrene	U		0.000754	0.00754	1	06/06/2018 22:37	WG1119426
1-Methylnaphthalene	U		0.00251	0.0251	1	06/06/2018 22:37	WG1119426
2-Methylnaphthalene	0.00316	J	0.00251	0.0251	1	06/06/2018 22:37	WG1119426
2-Chloronaphthalene	U		0.00251	0.0251	1	06/06/2018 22:37	WG1119426
(S) p-Terphenyl-d14	*67.9*			*23.0-120*		*06/06/2018 22:37*	WG1119426
(S) Nitrobenzene-d5	*92.0*			*14.0-149*		*06/06/2018 22:37*	WG1119426
(S) 2-Fluorobiphenyl	*78.1*			*34.0-125*		*06/06/2018 22:37*	WG1119426

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.0		1	06/05/2018 09:52	WG1119707

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.12		0.844	2.60	1	06/06/2018 23:10	WG1119334
Lead	8.88		0.247	0.649	1	06/06/2018 23:10	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000303	0.0260	1	06/06/2018 13:54	WG1119415
Alpha BHC	U		0.000251	0.0260	1	06/06/2018 13:54	WG1119415
Beta BHC	U		0.000394	0.0260	1	06/06/2018 13:54	WG1119415
Delta BHC	U		0.000196	0.0260	1	06/06/2018 13:54	WG1119415
Gamma BHC	U		0.000318	0.0260	1	06/06/2018 13:54	WG1119415
4,4-DDD	U		0.000213	0.0260	1	06/06/2018 13:54	WG1119415
4,4-DDE	U		0.000214	0.0260	1	06/06/2018 13:54	WG1119415
4,4-DDT	U		0.000345	0.0260	1	06/06/2018 13:54	WG1119415
Dieldrin	U		0.000116	0.00260	1	06/06/2018 13:54	WG1119415
Endosulfan I	U		0.000278	0.0260	1	06/06/2018 13:54	WG1119415
Endosulfan II	U		0.000299	0.0260	1	06/06/2018 13:54	WG1119415
Endosulfan sulfate	U		0.000221	0.0260	1	06/06/2018 13:54	WG1119415
Endrin	U		0.000284	0.0260	1	06/06/2018 13:54	WG1119415
Endrin aldehyde	U		0.000314	0.0260	1	06/06/2018 13:54	WG1119415
Endrin ketone	U		0.000207	0.0260	1	06/06/2018 13:54	WG1119415
Heptachlor	U		0.000131	0.0260	1	06/06/2018 13:54	WG1119415
Heptachlor epoxide	U		0.000491	0.0260	1	06/06/2018 13:54	WG1119415
Hexachlorobenzene	U		0.000291	0.0260	1	06/06/2018 13:54	WG1119415
Methoxychlor	U		0.000344	0.0260	1	06/06/2018 13:54	WG1119415
Chlordane	U		0.0507	0.260	1	06/06/2018 13:54	WG1119415
Toxaphene	U		0.0468	0.520	1	06/06/2018 13:54	WG1119415
(S) Decachlorobiphenyl	*64.3*			*10.0-148*		*06/06/2018 13:54*	WG1119415
(S) Tetrachloro-m-xylene	*67.3*			*21.0-146*		*06/06/2018 13:54*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00455	0.0221	1	06/06/2018 18:49	WG1119415
PCB 1221	U		0.00697	0.0221	1	06/06/2018 18:49	WG1119415
PCB 1232	U		0.00542	0.0221	1	06/06/2018 18:49	WG1119415
PCB 1242	U		0.00413	0.0221	1	06/06/2018 18:49	WG1119415
PCB 1248	U		0.00409	0.0221	1	06/06/2018 18:49	WG1119415
PCB 1254	U		0.00613	0.0221	1	06/06/2018 18:49	WG1119415
PCB 1260	U		0.00642	0.0221	1	06/06/2018 18:49	WG1119415
(S) Decachlorobiphenyl	*88.3*			*10.0-148*		*06/06/2018 18:49*	WG1119415
(S) Tetrachloro-m-xylene	*73.1*			*21.0-146*		*06/06/2018 18:49*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.0		1	06/05/2018 09:52	WG1119707

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0937		0.00368	0.0263	1	06/05/2018 00:02	WG1119382

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.986	2.63	1	06/06/2018 23:14	WG1119334
Arsenic	3.83		0.855	2.63	1	06/06/2018 23:14	WG1119334
Barium	97.8		0.224	0.658	1	06/06/2018 23:14	WG1119334
Beryllium	0.262	J	0.0921	0.263	1	06/06/2018 23:14	WG1119334
Cadmium	U		0.0921	0.658	1	06/06/2018 23:14	WG1119334
Chromium	37.4		0.184	1.32	1	06/06/2018 23:14	WG1119334
Cobalt	7.11		0.303	1.32	1	06/06/2018 23:14	WG1119334
Copper	24.3		0.697	2.63	1	06/06/2018 23:14	WG1119334
Lead	5.93		0.250	0.658	1	06/06/2018 23:14	WG1119334
Molybdenum	0.592	J	0.210	0.658	1	06/06/2018 23:14	WG1119334
Nickel	36.3		0.644	2.63	1	06/06/2018 23:14	WG1119334
Selenium	U		0.973	2.63	1	06/06/2018 23:14	WG1119334
Silver	U		0.368	1.32	1	06/06/2018 23:14	WG1119334
Thallium	U		0.855	2.63	1	06/06/2018 23:14	WG1119334
Vanadium	39.3		0.316	2.63	1	06/06/2018 23:14	WG1119334
Zinc	35.6		0.776	6.58	1	06/06/2018 23:14	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000306	0.0263	1	06/06/2018 15:07	WG1119415
Alpha BHC	U		0.000254	0.0263	1	06/06/2018 15:07	WG1119415
Beta BHC	U		0.000399	0.0263	1	06/06/2018 15:07	WG1119415
Delta BHC	U		0.000199	0.0263	1	06/06/2018 15:07	WG1119415
Gamma BHC	U		0.000322	0.0263	1	06/06/2018 15:07	WG1119415
4,4-DDD	U		0.000216	0.0263	1	06/06/2018 15:07	WG1119415
4,4-DDE	0.000998	J	0.000217	0.0263	1	06/06/2018 15:07	WG1119415
4,4-DDT	0.00117	J P	0.000350	0.0263	1	06/06/2018 15:07	WG1119415
Dieldrin	0.000224	J	0.000117	0.00263	1	06/06/2018 15:07	WG1119415
Endosulfan I	U		0.000281	0.0263	1	06/06/2018 15:07	WG1119415
Endosulfan II	U		0.000303	0.0263	1	06/06/2018 15:07	WG1119415
Endosulfan sulfate	U		0.000224	0.0263	1	06/06/2018 15:07	WG1119415
Endrin	0.000569	J	0.000288	0.0263	1	06/06/2018 15:07	WG1119415
Endrin aldehyde	U		0.000318	0.0263	1	06/06/2018 15:07	WG1119415
Endrin ketone	U		0.000209	0.0263	1	06/06/2018 15:07	WG1119415
Heptachlor	0.000360	J	0.000133	0.0263	1	06/06/2018 15:07	WG1119415
Heptachlor epoxide	U		0.000497	0.0263	1	06/06/2018 15:07	WG1119415
Hexachlorobenzene	U		0.000295	0.0263	1	06/06/2018 15:07	WG1119415
Methoxychlor	U		0.000349	0.0263	1	06/06/2018 15:07	WG1119415
Chlordane	U		0.0513	0.263	1	06/06/2018 15:07	WG1119415
Toxaphene	U		0.0473	0.526	1	06/06/2018 15:07	WG1119415
(S) Decachlorobiphenyl	*45.6*			*10.0-148*		*06/06/2018 15:07*	WG1119415
(S) Tetrachloro-m-xylene	*49.5*			*21.0-146*		*06/06/2018 15:07*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00460	0.0224	1	06/06/2018 19:03	WG1119415
PCB 1221	U		0.00706	0.0224	1	06/06/2018 19:03	WG1119415
PCB 1232	U		0.00548	0.0224	1	06/06/2018 19:03	WG1119415
PCB 1242	U		0.00418	0.0224	1	06/06/2018 19:03	WG1119415
PCB 1248	U		0.00414	0.0224	1	06/06/2018 19:03	WG1119415
PCB 1254	U		0.00621	0.0224	1	06/06/2018 19:03	WG1119415
PCB 1260	U		0.00650	0.0224	1	06/06/2018 19:03	WG1119415
(S) Decachlorobiphenyl	*61.5*			*10.0-148*		*06/06/2018 19:03*	WG1119415
(S) Tetrachloro-m-xylene	*59.6*			*21.0-146*		*06/06/2018 19:03*	WG1119415

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00844	0.0434	1	06/05/2018 02:42	WG1119399
Acenaphthylene	U		0.00883	0.0434	1	06/05/2018 02:42	WG1119399
Anthracene	U		0.00831	0.0434	1	06/05/2018 02:42	WG1119399
Benzidine	U	J4	0.0838	0.438	1	06/05/2018 02:42	WG1119399
Benzo(a)anthracene	U		0.00563	0.0434	1	06/05/2018 02:42	WG1119399
Benzo(b)fluoranthene	U		0.00914	0.0434	1	06/05/2018 02:42	WG1119399
Benzo(k)fluoranthene	U		0.00765	0.0434	1	06/05/2018 02:42	WG1119399
Benzo(g,h,i)perylene	U		0.00948	0.0434	1	06/05/2018 02:42	WG1119399
Benzo(a)pyrene	U		0.00721	0.0434	1	06/05/2018 02:42	WG1119399
Bis(2-chlorethoxy)methane	U		0.0101	0.438	1	06/05/2018 02:42	WG1119399
Bis(2-chloroethyl)ether	U		0.0118	0.438	1	06/05/2018 02:42	WG1119399
Bis(2-chloroisopropyl)ether	U		0.0100	0.438	1	06/05/2018 02:42	WG1119399
4-Bromophenyl-phenylether	U		0.0150	0.438	1	06/05/2018 02:42	WG1119399
2-Chloronaphthalene	U		0.00840	0.0434	1	06/05/2018 02:42	WG1119399
4-Chlorophenyl-phenylether	U		0.00825	0.438	1	06/05/2018 02:42	WG1119399
Chrysene	U		0.00730	0.0434	1	06/05/2018 02:42	WG1119399
Dibenz(a,h)anthracene	U		0.0108	0.0434	1	06/05/2018 02:42	WG1119399
3,3-Dichlorobenzidine	U		0.104	0.438	1	06/05/2018 02:42	WG1119399
2,4-Dinitrotoluene	U		0.00798	0.438	1	06/05/2018 02:42	WG1119399
2,6-Dinitrotoluene	U		0.00969	0.438	1	06/05/2018 02:42	WG1119399
Fluoranthene	U		0.00652	0.0434	1	06/05/2018 02:42	WG1119399
Fluorene	U		0.00897	0.0434	1	06/05/2018 02:42	WG1119399
Hexachlorobenzene	U		0.0113	0.438	1	06/05/2018 02:42	WG1119399
Hexachloro-1,3-butadiene	U		0.0132	0.438	1	06/05/2018 02:42	WG1119399
Hexachlorocyclopentadiene	U		0.0772	0.438	1	06/05/2018 02:42	WG1119399
Hexachloroethane	U		0.0176	0.438	1	06/05/2018 02:42	WG1119399
Indeno(1,2,3-cd)pyrene	U		0.0102	0.0434	1	06/05/2018 02:42	WG1119399
Isophorone	U		0.00687	0.438	1	06/05/2018 02:42	WG1119399
Naphthalene	U		0.0117	0.0434	1	06/05/2018 02:42	WG1119399
Nitrobenzene	U		0.00914	0.438	1	06/05/2018 02:42	WG1119399
n-Nitrosodimethylamine	U		0.0851	0.438	1	06/05/2018 02:42	WG1119399
n-Nitrosodiphenylamine	U		0.00781	0.438	1	06/05/2018 02:42	WG1119399
n-Nitrosodi-n-propylamine	U		0.0119	0.438	1	06/05/2018 02:42	WG1119399
Phenanthrene	U		0.00694	0.0434	1	06/05/2018 02:42	WG1119399
Benzylbutyl phthalate	U		0.0135	0.438	1	06/05/2018 02:42	WG1119399
Bis(2-ethylhexyl)phthalate	0.0540	B J	0.0158	0.438	1	06/05/2018 02:42	WG1119399
Di-n-butyl phthalate	U		0.0143	0.438	1	06/05/2018 02:42	WG1119399
Diethyl phthalate	U		0.00909	0.438	1	06/05/2018 02:42	WG1119399
Dimethyl phthalate	U		0.00710	0.438	1	06/05/2018 02:42	WG1119399
Di-n-octyl phthalate	U		0.0119	0.438	1	06/05/2018 02:42	WG1119399
Pyrene	U		0.0162	0.0434	1	06/05/2018 02:42	WG1119399
1,2,4-Trichlorobenzene	U		0.0115	0.438	1	06/05/2018 02:42	WG1119399
4-Chloro-3-methylphenol	U		0.00627	0.438	1	06/05/2018 02:42	WG1119399

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chlorophenol	U		0.0109	0.438	1	06/05/2018 02:42	WG1119399
2,4-Dichlorophenol	U		0.00981	0.438	1	06/05/2018 02:42	WG1119399
2,4-Dimethylphenol	U		0.0619	0.438	1	06/05/2018 02:42	WG1119399
4,6-Dinitro-2-methylphenol	U		0.163	0.438	1	06/05/2018 02:42	WG1119399
2,4-Dinitrophenol	U		0.129	0.438	1	06/05/2018 02:42	WG1119399
2-Nitrophenol	U		0.0171	0.438	1	06/05/2018 02:42	WG1119399
4-Nitrophenol	U		0.0691	0.438	1	06/05/2018 02:42	WG1119399
Pentachlorophenol	U		0.0631	0.438	1	06/05/2018 02:42	WG1119399
Phenol	U		0.00914	0.438	1	06/05/2018 02:42	WG1119399
2,4,6-Trichlorophenol	U		0.0102	0.438	1	06/05/2018 02:42	WG1119399
(S) 2-Fluorophenol	*28.1*			*20.0-120*		*06/05/2018 02:42*	WG1119399
(S) Phenol-d5	*17.7*	J2		*20.0-120*		*06/05/2018 02:42*	WG1119399
(S) Nitrobenzene-d5	*30.2*			*18.0-125*		*06/05/2018 02:42*	WG1119399
(S) 2-Fluorobiphenyl	*38.6*			*28.0-120*		*06/05/2018 02:42*	WG1119399
(S) 2,4,6-Tribromophenol	*44.1*			*17.0-137*		*06/05/2018 02:42*	WG1119399
(S) p-Terphenyl-d14	*47.9*			*13.0-131*		*06/05/2018 02:42*	WG1119399

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Acenaphthene	U		0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Acenaphthylene	U		0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Benzo(a)anthracene	0.00130	J	0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Benzo(a)pyrene	0.00136	J	0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Benzo(b)fluoranthene	0.00198	J	0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Benzo(g,h,i)perylene	0.00340	J	0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Benzo(k)fluoranthene	0.000994	J	0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Chrysene	0.00102	J	0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Dibenz(a,h)anthracene	U		0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Fluoranthene	0.00128	J	0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Fluorene	U		0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Indeno(1,2,3-cd)pyrene	U		0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Naphthalene	U		0.00263	0.0263	1	06/07/2018 11:01	WG1119426
Phenanthrene	0.000936	J	0.000789	0.00789	1	06/07/2018 11:01	WG1119426
Pyrene	0.00155	J	0.000789	0.00789	1	06/07/2018 11:01	WG1119426
1-Methylnaphthalene	U		0.00263	0.0263	1	06/07/2018 11:01	WG1119426
2-Methylnaphthalene	U		0.00263	0.0263	1	06/07/2018 11:01	WG1119426
2-Chloronaphthalene	U		0.00263	0.0263	1	06/07/2018 11:01	WG1119426
(S) p-Terphenyl-d14	*72.7*			*23.0-120*		*06/07/2018 11:01*	WG1119426
(S) Nitrobenzene-d5	*88.9*			*14.0-149*		*06/07/2018 11:01*	WG1119426
(S) 2-Fluorobiphenyl	*70.4*			*34.0-125*		*06/07/2018 11:01*	WG1119426

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.0		1	06/05/2018 09:52	WG1119707

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.113		0.00346	0.0247	1	06/05/2018 00:10	WG1119382

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.926	2.47	1	06/06/2018 23:17	WG1119334
Arsenic	4.85		0.802	2.47	1	06/06/2018 23:17	WG1119334
Barium	99.6		0.210	0.617	1	06/06/2018 23:17	WG1119334
Beryllium	0.325		0.0864	0.247	1	06/06/2018 23:17	WG1119334
Cadmium	U		0.0864	0.617	1	06/06/2018 23:17	WG1119334
Chromium	46.4		0.173	1.23	1	06/06/2018 23:17	WG1119334
Cobalt	7.57		0.284	1.23	1	06/06/2018 23:17	WG1119334
Copper	25.3		0.654	2.47	1	06/06/2018 23:17	WG1119334
Lead	4.73		0.235	0.617	1	06/06/2018 23:17	WG1119334
Molybdenum	0.675		0.197	0.617	1	06/06/2018 23:17	WG1119334
Nickel	43.3		0.605	2.47	1	06/06/2018 23:17	WG1119334
Selenium	U		0.913	2.47	1	06/06/2018 23:17	WG1119334
Silver	U		0.346	1.23	1	06/06/2018 23:17	WG1119334
Thallium	U		0.802	2.47	1	06/06/2018 23:17	WG1119334
Vanadium	42.0		0.296	2.47	1	06/06/2018 23:17	WG1119334
Zinc	37.0		0.728	6.17	1	06/06/2018 23:17	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000288	0.0247	1	06/06/2018 15:52	WG1119415
Alpha BHC	U		0.000238	0.0247	1	06/06/2018 15:52	WG1119415
Beta BHC	U		0.000374	0.0247	1	06/06/2018 15:52	WG1119415
Delta BHC	U		0.000186	0.0247	1	06/06/2018 15:52	WG1119415
Gamma BHC	U		0.000302	0.0247	1	06/06/2018 15:52	WG1119415
4,4-DDD	U		0.000202	0.0247	1	06/06/2018 15:52	WG1119415
4,4-DDE	0.00131	J	0.000204	0.0247	1	06/06/2018 15:52	WG1119415
4,4-DDT	0.00360	J	0.000328	0.0247	1	06/06/2018 15:52	WG1119415
Dieldrin	U		0.000110	0.00247	1	06/06/2018 15:52	WG1119415
Endosulfan I	U		0.000264	0.0247	1	06/06/2018 15:52	WG1119415
Endosulfan II	U		0.000284	0.0247	1	06/06/2018 15:52	WG1119415
Endosulfan sulfate	U		0.000210	0.0247	1	06/06/2018 15:52	WG1119415
Endrin	U		0.000270	0.0247	1	06/06/2018 15:52	WG1119415
Endrin aldehyde	U		0.000299	0.0247	1	06/06/2018 15:52	WG1119415
Endrin ketone	U		0.000196	0.0247	1	06/06/2018 15:52	WG1119415
Heptachlor	U		0.000125	0.0247	1	06/06/2018 15:52	WG1119415
Heptachlor epoxide	U		0.000467	0.0247	1	06/06/2018 15:52	WG1119415
Hexachlorobenzene	U		0.000276	0.0247	1	06/06/2018 15:52	WG1119415
Methoxychlor	U		0.000327	0.0247	1	06/06/2018 15:52	WG1119415
Chlordane	0.149	J	0.0481	0.247	1	06/06/2018 15:52	WG1119415
Toxaphene	U		0.0444	0.494	1	06/06/2018 15:52	WG1119415
(S) Decachlorobiphenyl	*68.8*			*10.0-148*		*06/06/2018 15:52*	WG1119415
(S) Tetrachloro-m-xylene	*60.4*			*21.0-146*		*06/06/2018 15:52*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00432	0.0210	1	06/06/2018 19:17	WG1119415
PCB 1221	U		0.00663	0.0210	1	06/06/2018 19:17	WG1119415
PCB 1232	U		0.00515	0.0210	1	06/06/2018 19:17	WG1119415
PCB 1242	U		0.00392	0.0210	1	06/06/2018 19:17	WG1119415
PCB 1248	U		0.00389	0.0210	1	06/06/2018 19:17	WG1119415
PCB 1254	U		0.00583	0.0210	1	06/06/2018 19:17	WG1119415
PCB 1260	U		0.00610	0.0210	1	06/06/2018 19:17	WG1119415
(S) Decachlorobiphenyl	*74.3*			*10.0-148*		*06/06/2018 19:17*	WG1119415
(S) Tetrachloro-m-xylene	*80.4*			*21.0-146*		*06/06/2018 19:17*	WG1119415

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0792	0.407	10	06/05/2018 06:51	WG1119399
Acenaphthylene	U		0.0828	0.407	10	06/05/2018 06:51	WG1119399
Anthracene	U		0.0780	0.407	10	06/05/2018 06:51	WG1119399
Benzidine	U	J4	0.786	4.11	10	06/05/2018 06:51	WG1119399
Benzo(a)anthracene	U		0.0528	0.407	10	06/05/2018 06:51	WG1119399
Benzo(b)fluoranthene	U		0.0858	0.407	10	06/05/2018 06:51	WG1119399
Benzo(k)fluoranthene	U		0.0718	0.407	10	06/05/2018 06:51	WG1119399
Benzo(g,h,i)perylene	U		0.0890	0.407	10	06/05/2018 06:51	WG1119399
Benzo(a)pyrene	U		0.0676	0.407	10	06/05/2018 06:51	WG1119399
Bis(2-chlorethoxy)methane	U		0.0950	4.11	10	06/05/2018 06:51	WG1119399
Bis(2-chloroethyl)ether	U		0.111	4.11	10	06/05/2018 06:51	WG1119399
Bis(2-chloroisopropyl)ether	U		0.0938	4.11	10	06/05/2018 06:51	WG1119399
4-Bromophenyl-phenylether	U		0.141	4.11	10	06/05/2018 06:51	WG1119399
2-Chloronaphthalene	U		0.0789	0.407	10	06/05/2018 06:51	WG1119399
4-Chlorophenyl-phenylether	U		0.0774	4.11	10	06/05/2018 06:51	WG1119399
Chrysene	U		0.0685	0.407	10	06/05/2018 06:51	WG1119399
Dibenz(a,h)anthracene	U		0.101	0.407	10	06/05/2018 06:51	WG1119399
3,3-Dichlorobenzidine	U		0.980	4.11	10	06/05/2018 06:51	WG1119399
2,4-Dinitrotoluene	U		0.0749	4.11	10	06/05/2018 06:51	WG1119399
2,6-Dinitrotoluene	U		0.0910	4.11	10	06/05/2018 06:51	WG1119399
Fluoranthene	U		0.0612	0.407	10	06/05/2018 06:51	WG1119399
Fluorene	U		0.0842	0.407	10	06/05/2018 06:51	WG1119399
Hexachlorobenzene	U		0.106	4.11	10	06/05/2018 06:51	WG1119399
Hexachloro-1,3-butadiene	U		0.123	4.11	10	06/05/2018 06:51	WG1119399
Hexachlorocyclopentadiene	U		0.724	4.11	10	06/05/2018 06:51	WG1119399
Hexachloroethane	U		0.165	4.11	10	06/05/2018 06:51	WG1119399
Indeno(1,2,3-cd)pyrene	U		0.0953	0.407	10	06/05/2018 06:51	WG1119399
Isophorone	U		0.0644	4.11	10	06/05/2018 06:51	WG1119399
Naphthalene	U		0.110	0.407	10	06/05/2018 06:51	WG1119399
Nitrobenzene	U		0.0858	4.11	10	06/05/2018 06:51	WG1119399
n-Nitrosodimethylamine	U		0.799	4.11	10	06/05/2018 06:51	WG1119399
n-Nitrosodiphenylamine	U		0.0733	4.11	10	06/05/2018 06:51	WG1119399
n-Nitrosodi-n-propylamine	U		0.112	4.11	10	06/05/2018 06:51	WG1119399
Phenanthrene	U		0.0652	0.407	10	06/05/2018 06:51	WG1119399
Benzylbutyl phthalate	U		0.127	4.11	10	06/05/2018 06:51	WG1119399
Bis(2-ethylhexyl)phthalate	0.272	B J	0.148	4.11	10	06/05/2018 06:51	WG1119399
Di-n-butyl phthalate	U		0.135	4.11	10	06/05/2018 06:51	WG1119399
Diethyl phthalate	U		0.0853	4.11	10	06/05/2018 06:51	WG1119399
Dimethyl phthalate	U		0.0666	4.11	10	06/05/2018 06:51	WG1119399
Di-n-octyl phthalate	U		0.112	4.11	10	06/05/2018 06:51	WG1119399
Pyrene	U		0.152	0.407	10	06/05/2018 06:51	WG1119399
1,2,4-Trichlorobenzene	U		0.108	4.11	10	06/05/2018 06:51	WG1119399
4-Chloro-3-methylphenol	U		0.0589	4.11	10	06/05/2018 06:51	WG1119399

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chlorophenol	U		0.103	4.11	10	06/05/2018 06:51	WG1119399
2,4-Dichlorophenol	U		0.0921	4.11	10	06/05/2018 06:51	WG1119399
2,4-Dimethylphenol	U		0.581	4.11	10	06/05/2018 06:51	WG1119399
4,6-Dinitro-2-methylphenol	U		1.53	4.11	10	06/05/2018 06:51	WG1119399
2,4-Dinitrophenol	U		1.21	4.11	10	06/05/2018 06:51	WG1119399
2-Nitrophenol	U		0.160	4.11	10	06/05/2018 06:51	WG1119399
4-Nitrophenol	U		0.648	4.11	10	06/05/2018 06:51	WG1119399
Pentachlorophenol	U		0.592	4.11	10	06/05/2018 06:51	WG1119399
Phenol	U		0.0858	4.11	10	06/05/2018 06:51	WG1119399
2,4,6-Trichlorophenol	U		0.0961	4.11	10	06/05/2018 06:51	WG1119399
(S) 2-Fluorophenol	*65.1*			*20.0-120*		*06/05/2018 06:51*	WG1119399
(S) Phenol-d5	*56.3*			*20.0-120*		*06/05/2018 06:51*	WG1119399
(S) Nitrobenzene-d5	*61.6*			*18.0-125*		*06/05/2018 06:51*	WG1119399
(S) 2-Fluorobiphenyl	*63.6*			*28.0-120*		*06/05/2018 06:51*	WG1119399
(S) 2,4,6-Tribromophenol	*56.4*			*17.0-137*		*06/05/2018 06:51*	WG1119399
(S) p-Terphenyl-d14	*73.5*			*13.0-131*		*06/05/2018 06:51*	WG1119399

Sample Narrative:

L998278-05 WG1119399: Dilution due to matrix impact during extract concentration procedure

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Acenaphthene	U		0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Acenaphthylene	U		0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Benzo(a)anthracene	0.00186	J	0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Benzo(a)pyrene	0.00210	J	0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Benzo(b)fluoranthene	0.00302	J	0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Benzo(g,h,i)perylene	0.00443	J	0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Benzo(k)fluoranthene	0.00163	J	0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Chrysene	0.00148	J	0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Dibenz(a,h)anthracene	U		0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Fluoranthene	0.00315	J	0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Fluorene	U		0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Indeno(1,2,3-cd)pyrene	0.00101	J	0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Naphthalene	0.00422	J	0.00247	0.0247	1	06/07/2018 11:22	WG1119426
Phenanthrene	0.00195	J	0.000741	0.00741	1	06/07/2018 11:22	WG1119426
Pyrene	0.00404	J	0.000741	0.00741	1	06/07/2018 11:22	WG1119426
1-Methylnaphthalene	U		0.00247	0.0247	1	06/07/2018 11:22	WG1119426
2-Methylnaphthalene	U		0.00247	0.0247	1	06/07/2018 11:22	WG1119426
2-Chloronaphthalene	U		0.00247	0.0247	1	06/07/2018 11:22	WG1119426
(S) p-Terphenyl-d14	*56.2*			*23.0-120*		*06/07/2018 11:22*	WG1119426
(S) Nitrobenzene-d5	*91.5*			*14.0-149*		*06/07/2018 11:22*	WG1119426
(S) 2-Fluorobiphenyl	*61.5*			*34.0-125*		*06/07/2018 11:22*	WG1119426

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.5		1	06/05/2018 09:52	WG1119707

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		0.760	2.34	1	06/06/2018 23:20	WG1119334
Lead	U		0.222	0.585	1	06/06/2018 23:20	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000272	0.0234	1	06/06/2018 15:22	WG1119415
Alpha BHC	U		0.000226	0.0234	1	06/06/2018 15:22	WG1119415
Beta BHC	U		0.000354	0.0234	1	06/06/2018 15:22	WG1119415
Delta BHC	U		0.000177	0.0234	1	06/06/2018 15:22	WG1119415
Gamma BHC	U		0.000286	0.0234	1	06/06/2018 15:22	WG1119415
4,4-DDD	U		0.000192	0.0234	1	06/06/2018 15:22	WG1119415
4,4-DDE	U		0.000193	0.0234	1	06/06/2018 15:22	WG1119415
4,4-DDT	U		0.000311	0.0234	1	06/06/2018 15:22	WG1119415
Dieldrin	U		0.000104	0.00234	1	06/06/2018 15:22	WG1119415
Endosulfan I	U		0.000250	0.0234	1	06/06/2018 15:22	WG1119415
Endosulfan II	U		0.000269	0.0234	1	06/06/2018 15:22	WG1119415
Endosulfan sulfate	U		0.000199	0.0234	1	06/06/2018 15:22	WG1119415
Endrin	U		0.000256	0.0234	1	06/06/2018 15:22	WG1119415
Endrin aldehyde	U		0.000283	0.0234	1	06/06/2018 15:22	WG1119415
Endrin ketone	U		0.000186	0.0234	1	06/06/2018 15:22	WG1119415
Heptachlor	U		0.000118	0.0234	1	06/06/2018 15:22	WG1119415
Heptachlor epoxide	0.000470	J	0.000442	0.0234	1	06/06/2018 15:22	WG1119415
Hexachlorobenzene	U		0.000262	0.0234	1	06/06/2018 15:22	WG1119415
Methoxychlor	U		0.000310	0.0234	1	06/06/2018 15:22	WG1119415
Chlordane	U		0.0456	0.234	1	06/06/2018 15:22	WG1119415
Toxaphene	U		0.0421	0.468	1	06/06/2018 15:22	WG1119415
(S) Decachlorobiphenyl	*59.8*			*10.0-148*		*06/06/2018 15:22*	WG1119415
(S) Tetrachloro-m-xylene	*68.2*			*21.0-146*		*06/06/2018 15:22*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00409	0.0199	1	06/06/2018 19:30	WG1119415
PCB 1221	U		0.00628	0.0199	1	06/06/2018 19:30	WG1119415
PCB 1232	U		0.00488	0.0199	1	06/06/2018 19:30	WG1119415
PCB 1242	U		0.00372	0.0199	1	06/06/2018 19:30	WG1119415
PCB 1248	U		0.00368	0.0199	1	06/06/2018 19:30	WG1119415
PCB 1254	U		0.00552	0.0199	1	06/06/2018 19:30	WG1119415
PCB 1260	U		0.00578	0.0199	1	06/06/2018 19:30	WG1119415
(S) Decachlorobiphenyl	*83.0*			*10.0-148*		*06/06/2018 19:30*	WG1119415
(S) Tetrachloro-m-xylene	*76.0*			*21.0-146*		*06/06/2018 19:30*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.8		1	06/05/2018 09:52	WG1119707

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		0.836	2.57	1	06/06/2018 23:24	WG1119334
Lead	U		0.244	0.643	1	06/06/2018 23:24	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000300	0.0257	1	06/06/2018 14:08	WG1119415
Alpha BHC	U		0.000248	0.0257	1	06/06/2018 14:08	WG1119415
Beta BHC	U		0.000390	0.0257	1	06/06/2018 14:08	WG1119415
Delta BHC	U		0.000194	0.0257	1	06/06/2018 14:08	WG1119415
Gamma BHC	U		0.000315	0.0257	1	06/06/2018 14:08	WG1119415
4,4-DDD	U		0.000211	0.0257	1	06/06/2018 14:08	WG1119415
4,4-DDE	U		0.000212	0.0257	1	06/06/2018 14:08	WG1119415
4,4-DDT	U		0.000342	0.0257	1	06/06/2018 14:08	WG1119415
Dieldrin	U		0.000114	0.00257	1	06/06/2018 14:08	WG1119415
Endosulfan I	U		0.000275	0.0257	1	06/06/2018 14:08	WG1119415
Endosulfan II	U		0.000296	0.0257	1	06/06/2018 14:08	WG1119415
Endosulfan sulfate	U		0.000219	0.0257	1	06/06/2018 14:08	WG1119415
Endrin	U		0.000282	0.0257	1	06/06/2018 14:08	WG1119415
Endrin aldehyde	U		0.000311	0.0257	1	06/06/2018 14:08	WG1119415
Endrin ketone	U		0.000204	0.0257	1	06/06/2018 14:08	WG1119415
Heptachlor	U		0.000130	0.0257	1	06/06/2018 14:08	WG1119415
Heptachlor epoxide	U		0.000486	0.0257	1	06/06/2018 14:08	WG1119415
Hexachlorobenzene	U		0.000288	0.0257	1	06/06/2018 14:08	WG1119415
Methoxychlor	U		0.000341	0.0257	1	06/06/2018 14:08	WG1119415
Chlordane	U		0.0501	0.257	1	06/06/2018 14:08	WG1119415
Toxaphene	U		0.0463	0.514	1	06/06/2018 14:08	WG1119415
(S) Decachlorobiphenyl	*54.5*			*10.0-148*		*06/06/2018 14:08*	WG1119415
(S) Tetrachloro-m-xylene	*67.6*			*21.0-146*		*06/06/2018 14:08*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00450	0.0219	1	06/06/2018 19:44	WG1119415
PCB 1221	U		0.00690	0.0219	1	06/06/2018 19:44	WG1119415
PCB 1232	U		0.00536	0.0219	1	06/06/2018 19:44	WG1119415
PCB 1242	U		0.00409	0.0219	1	06/06/2018 19:44	WG1119415
PCB 1248	U		0.00405	0.0219	1	06/06/2018 19:44	WG1119415
PCB 1254	U		0.00607	0.0219	1	06/06/2018 19:44	WG1119415
PCB 1260	U		0.00635	0.0219	1	06/06/2018 19:44	WG1119415
(S) Decachlorobiphenyl	*85.1*			*10.0-148*		*06/06/2018 19:44*	WG1119415
(S) Tetrachloro-m-xylene	*76.8*			*21.0-146*		*06/06/2018 19:44*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	06/05/2018 09:52	WG1119707

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.104		0.00306	0.0218	1	06/05/2018 00:12	WG1119382

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U	J3 J6	0.819	2.18	1	06/06/2018 22:40	WG1119334
Arsenic	0.991	J	0.710	2.18	1	06/06/2018 22:40	WG1119334
Barium	45.9		0.186	0.546	1	06/06/2018 22:40	WG1119334
Beryllium	0.0878	J	0.0765	0.218	1	06/06/2018 22:40	WG1119334
Cadmium	0.368	J	0.0765	0.546	1	06/06/2018 22:40	WG1119334
Chromium	238	J6	0.153	1.09	1	06/06/2018 22:40	WG1119334
Cobalt	37.1		0.251	1.09	1	06/06/2018 22:40	WG1119334
Copper	64.9		0.579	2.18	1	06/06/2018 22:40	WG1119334
Lead	U		0.208	0.546	1	06/06/2018 22:40	WG1119334
Molybdenum	U		0.175	0.546	1	06/06/2018 22:40	WG1119334
Nickel	199		0.535	2.18	1	06/06/2018 22:40	WG1119334
Selenium	U		0.808	2.18	1	06/06/2018 22:40	WG1119334
Silver	U		0.306	1.09	1	06/06/2018 22:40	WG1119334
Thallium	U		0.710	2.18	1	06/06/2018 22:40	WG1119334
Vanadium	114		0.262	2.18	1	06/06/2018 22:40	WG1119334
Zinc	42.4		0.645	5.46	1	06/06/2018 22:40	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000255	0.0218	1	06/06/2018 14:23	WG1119415
Alpha BHC	U		0.000211	0.0218	1	06/06/2018 14:23	WG1119415
Beta BHC	U		0.000331	0.0218	1	06/06/2018 14:23	WG1119415
Delta BHC	U		0.000165	0.0218	1	06/06/2018 14:23	WG1119415
Gamma BHC	U		0.000268	0.0218	1	06/06/2018 14:23	WG1119415
4,4-DDD	U		0.000179	0.0218	1	06/06/2018 14:23	WG1119415
4,4-DDE	U		0.000180	0.0218	1	06/06/2018 14:23	WG1119415
4,4-DDT	U		0.000291	0.0218	1	06/06/2018 14:23	WG1119415
Dieldrin	U		0.0000972	0.00218	1	06/06/2018 14:23	WG1119415
Endosulfan I	U		0.000234	0.0218	1	06/06/2018 14:23	WG1119415
Endosulfan II	U		0.000251	0.0218	1	06/06/2018 14:23	WG1119415
Endosulfan sulfate	U		0.000186	0.0218	1	06/06/2018 14:23	WG1119415
Endrin	U		0.000239	0.0218	1	06/06/2018 14:23	WG1119415
Endrin aldehyde	U		0.000264	0.0218	1	06/06/2018 14:23	WG1119415
Endrin ketone	U		0.000174	0.0218	1	06/06/2018 14:23	WG1119415
Heptachlor	U		0.000110	0.0218	1	06/06/2018 14:23	WG1119415
Heptachlor epoxide	U		0.000413	0.0218	1	06/06/2018 14:23	WG1119415
Hexachlorobenzene	U		0.000245	0.0218	1	06/06/2018 14:23	WG1119415
Methoxychlor	U		0.000290	0.0218	1	06/06/2018 14:23	WG1119415
Chlordane	U		0.0426	0.218	1	06/06/2018 14:23	WG1119415
Toxaphene	U		0.0393	0.437	1	06/06/2018 14:23	WG1119415
(S) Decachlorobiphenyl	*69.7*			*10.0-148*		*06/06/2018 14:23*	WG1119415
(S) Tetrachloro-m-xylene	*73.2*			*21.0-146*		*06/06/2018 14:23*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00382	0.0186	1	06/06/2018 19:58	WG1119415
PCB 1221	U		0.00587	0.0186	1	06/06/2018 19:58	WG1119415
PCB 1232	U		0.00456	0.0186	1	06/06/2018 19:58	WG1119415
PCB 1242	U		0.00347	0.0186	1	06/06/2018 19:58	WG1119415
PCB 1248	U		0.00344	0.0186	1	06/06/2018 19:58	WG1119415
PCB 1254	U		0.00516	0.0186	1	06/06/2018 19:58	WG1119415
PCB 1260	U		0.00540	0.0186	1	06/06/2018 19:58	WG1119415
(S) Decachlorobiphenyl	*103*			*10.0-148*		*06/06/2018 19:58*	WG1119415
(S) Tetrachloro-m-xylene	*80.0*			*21.0-146*		*06/06/2018 19:58*	WG1119415

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00701	0.0361	1	06/05/2018 03:09	WG1119399
Acenaphthylene	U		0.00733	0.0361	1	06/05/2018 03:09	WG1119399
Anthracene	U		0.00690	0.0361	1	06/05/2018 03:09	WG1119399
Benzidine	U	J4 J6	0.0696	0.364	1	06/05/2018 03:09	WG1119399
Benzo(a)anthracene	U		0.00468	0.0361	1	06/05/2018 03:09	WG1119399
Benzo(b)fluoranthene	U		0.00759	0.0361	1	06/05/2018 03:09	WG1119399
Benzo(k)fluoranthene	U		0.00636	0.0361	1	06/05/2018 03:09	WG1119399
Benzo(g,h,i)perylene	U		0.00788	0.0361	1	06/05/2018 03:09	WG1119399
Benzo(a)pyrene	U		0.00599	0.0361	1	06/05/2018 03:09	WG1119399
Bis(2-chlorethoxy)methane	U	J3 J6	0.00841	0.364	1	06/05/2018 03:09	WG1119399
Bis(2-chloroethyl)ether	U	J3	0.00979	0.364	1	06/05/2018 03:09	WG1119399
Bis(2-chloroisopropyl)ether	U		0.00830	0.364	1	06/05/2018 03:09	WG1119399
4-Bromophenyl-phenylether	U		0.0125	0.364	1	06/05/2018 03:09	WG1119399
2-Chloronaphthalene	U		0.00698	0.0361	1	06/05/2018 03:09	WG1119399
4-Chlorophenyl-phenylether	U		0.00685	0.364	1	06/05/2018 03:09	WG1119399
Chrysene	U		0.00606	0.0361	1	06/05/2018 03:09	WG1119399
Dibenz(a,h)anthracene	U		0.00897	0.0361	1	06/05/2018 03:09	WG1119399
3,3-Dichlorobenzidine	U		0.0867	0.364	1	06/05/2018 03:09	WG1119399
2,4-Dinitrotoluene	U		0.00663	0.364	1	06/05/2018 03:09	WG1119399
2,6-Dinitrotoluene	U		0.00805	0.364	1	06/05/2018 03:09	WG1119399
Fluoranthene	U		0.00542	0.0361	1	06/05/2018 03:09	WG1119399
Fluorene	U		0.00745	0.0361	1	06/05/2018 03:09	WG1119399
Hexachlorobenzene	U		0.00935	0.364	1	06/05/2018 03:09	WG1119399
Hexachloro-1,3-butadiene	U		0.0109	0.364	1	06/05/2018 03:09	WG1119399
Hexachlorocyclopentadiene	U		0.0641	0.364	1	06/05/2018 03:09	WG1119399
Hexachloroethane	U		0.0146	0.364	1	06/05/2018 03:09	WG1119399
Indeno(1,2,3-cd)pyrene	U		0.00843	0.0361	1	06/05/2018 03:09	WG1119399
Isophorone	U	J3	0.00570	0.364	1	06/05/2018 03:09	WG1119399
Naphthalene	U		0.00971	0.0361	1	06/05/2018 03:09	WG1119399
Nitrobenzene	U	J3	0.00759	0.364	1	06/05/2018 03:09	WG1119399
n-Nitrosodimethylamine	U		0.0707	0.364	1	06/05/2018 03:09	WG1119399
n-Nitrosodiphenylamine	U		0.00649	0.364	1	06/05/2018 03:09	WG1119399
n-Nitrosodi-n-propylamine	U	J3	0.00990	0.364	1	06/05/2018 03:09	WG1119399
Phenanthrene	U		0.00577	0.0361	1	06/05/2018 03:09	WG1119399
Benzylbutyl phthalate	U		0.0113	0.364	1	06/05/2018 03:09	WG1119399
Bis(2-ethylhexyl)phthalate	0.0654	B J	0.0131	0.364	1	06/05/2018 03:09	WG1119399
Di-n-butyl phthalate	U		0.0119	0.364	1	06/05/2018 03:09	WG1119399
Diethyl phthalate	U		0.00755	0.364	1	06/05/2018 03:09	WG1119399
Dimethyl phthalate	U		0.00590	0.364	1	06/05/2018 03:09	WG1119399
Di-n-octyl phthalate	U		0.00991	0.364	1	06/05/2018 03:09	WG1119399
Pyrene	U		0.0134	0.0361	1	06/05/2018 03:09	WG1119399
1,2,4-Trichlorobenzene	U		0.00957	0.364	1	06/05/2018 03:09	WG1119399
4-Chloro-3-methylphenol	U		0.00521	0.364	1	06/05/2018 03:09	WG1119399

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chlorophenol	U	J3	0.00908	0.364	1	06/05/2018 03:09	WG1119399
2,4-Dichlorophenol	U		0.00815	0.364	1	06/05/2018 03:09	WG1119399
2,4-Dimethylphenol	U		0.0515	0.364	1	06/05/2018 03:09	WG1119399
4,6-Dinitro-2-methylphenol	U		0.135	0.364	1	06/05/2018 03:09	WG1119399
2,4-Dinitrophenol	U		0.107	0.364	1	06/05/2018 03:09	WG1119399
2-Nitrophenol	U	J3	0.0142	0.364	1	06/05/2018 03:09	WG1119399
4-Nitrophenol	U		0.0574	0.364	1	06/05/2018 03:09	WG1119399
Pentachlorophenol	U		0.0524	0.364	1	06/05/2018 03:09	WG1119399
Phenol	U	J3 J6	0.00759	0.364	1	06/05/2018 03:09	WG1119399
2,4,6-Trichlorophenol	U		0.00851	0.364	1	06/05/2018 03:09	WG1119399
(S) 2-Fluorophenol	*59.6*			*20.0-120*		*06/05/2018 03:09*	WG1119399
(S) Phenol-d5	*52.6*			*20.0-120*		*06/05/2018 03:09*	WG1119399
(S) Nitrobenzene-d5	*58.5*			*18.0-125*		*06/05/2018 03:09*	WG1119399
(S) 2-Fluorobiphenyl	*62.3*			*28.0-120*		*06/05/2018 03:09*	WG1119399
(S) 2,4,6-Tribromophenol	*69.2*			*17.0-137*		*06/05/2018 03:09*	WG1119399
(S) p-Terphenyl-d14	*85.9*			*13.0-131*		*06/05/2018 03:09*	WG1119399

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Acenaphthene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Acenaphthylene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Benzo(a)anthracene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Benzo(a)pyrene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Benzo(b)fluoranthene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Benzo(g,h,i)perylene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Benzo(k)fluoranthene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Chrysene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Dibenz(a,h)anthracene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Fluoranthene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Fluorene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Indeno(1,2,3-cd)pyrene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Naphthalene	U		0.00218	0.0218	1	06/06/2018 22:58	WG1119426
Phenanthrene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
Pyrene	U		0.000655	0.00655	1	06/06/2018 22:58	WG1119426
1-Methylnaphthalene	U		0.00218	0.0218	1	06/06/2018 22:58	WG1119426
2-Methylnaphthalene	U		0.00218	0.0218	1	06/06/2018 22:58	WG1119426
2-Chloronaphthalene	U		0.00218	0.0218	1	06/06/2018 22:58	WG1119426
(S) p-Terphenyl-d14	*95.1*			*23.0-120*		*06/06/2018 22:58*	WG1119426
(S) Nitrobenzene-d5	*114*			*14.0-149*		*06/06/2018 22:58*	WG1119426
(S) 2-Fluorobiphenyl	*98.5*			*34.0-125*		*06/06/2018 22:58*	WG1119426

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.3		1	06/05/2018 09:52	WG1119707

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	6.69		0.820	2.52	1	06/06/2018 23:27	WG1119334
Lead	3.87		0.240	0.631	1	06/06/2018 23:27	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000294	0.0252	1	06/06/2018 14:38	WG1119415
Alpha BHC	U		0.000243	0.0252	1	06/06/2018 14:38	WG1119415
Beta BHC	U		0.000382	0.0252	1	06/06/2018 14:38	WG1119415
Delta BHC	U		0.000190	0.0252	1	06/06/2018 14:38	WG1119415
Gamma BHC	U		0.000309	0.0252	1	06/06/2018 14:38	WG1119415
4,4-DDD	U		0.000207	0.0252	1	06/06/2018 14:38	WG1119415
4,4-DDE	U		0.000208	0.0252	1	06/06/2018 14:38	WG1119415
4,4-DDT	U		0.000336	0.0252	1	06/06/2018 14:38	WG1119415
Dieldrin	U		0.000112	0.00252	1	06/06/2018 14:38	WG1119415
Endosulfan I	U		0.000270	0.0252	1	06/06/2018 14:38	WG1119415
Endosulfan II	U		0.000290	0.0252	1	06/06/2018 14:38	WG1119415
Endosulfan sulfate	U		0.000214	0.0252	1	06/06/2018 14:38	WG1119415
Endrin	U		0.000276	0.0252	1	06/06/2018 14:38	WG1119415
Endrin aldehyde	U		0.000305	0.0252	1	06/06/2018 14:38	WG1119415
Endrin ketone	U		0.000201	0.0252	1	06/06/2018 14:38	WG1119415
Heptachlor	U		0.000127	0.0252	1	06/06/2018 14:38	WG1119415
Heptachlor epoxide	U		0.000477	0.0252	1	06/06/2018 14:38	WG1119415
Hexachlorobenzene	U		0.000283	0.0252	1	06/06/2018 14:38	WG1119415
Methoxychlor	U		0.000334	0.0252	1	06/06/2018 14:38	WG1119415
Chlordane	U		0.0492	0.252	1	06/06/2018 14:38	WG1119415
Toxaphene	U		0.0454	0.505	1	06/06/2018 14:38	WG1119415
(S) Decachlorobiphenyl	*70.5*			*10.0-148*		*06/06/2018 14:38*	WG1119415
(S) Tetrachloro-m-xylene	*71.4*			*21.0-146*		*06/06/2018 14:38*	WG1119415

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00441	0.0214	1	06/06/2018 20:12	WG1119415
PCB 1221	U		0.00677	0.0214	1	06/06/2018 20:12	WG1119415
PCB 1232	U		0.00526	0.0214	1	06/06/2018 20:12	WG1119415
PCB 1242	U		0.00401	0.0214	1	06/06/2018 20:12	WG1119415
PCB 1248	U		0.00397	0.0214	1	06/06/2018 20:12	WG1119415
PCB 1254	U		0.00595	0.0214	1	06/06/2018 20:12	WG1119415
PCB 1260	U		0.00623	0.0214	1	06/06/2018 20:12	WG1119415
(S) Decachlorobiphenyl	*103*			*10.0-148*		*06/06/2018 20:12*	WG1119415
(S) Tetrachloro-m-xylene	*77.2*			*21.0-146*		*06/06/2018 20:12*	WG1119415

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.4		1	06/05/2018 09:52	WG1119707

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.86		0.829	2.55	1	06/06/2018 23:30	WG1119334
Lead	5.23		0.242	0.638	1	06/06/2018 23:30	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000297	0.0255	1	06/07/2018 21:39	WG1120795
Alpha BHC	U		0.000246	0.0255	1	06/07/2018 21:39	WG1120795
Beta BHC	U		0.000387	0.0255	1	06/07/2018 21:39	WG1120795
Delta BHC	U		0.000193	0.0255	1	06/07/2018 21:39	WG1120795
Gamma BHC	U		0.000313	0.0255	1	06/07/2018 21:39	WG1120795
4,4-DDD	U		0.000209	0.0255	1	06/07/2018 21:39	WG1120795
4,4-DDE	U		0.000210	0.0255	1	06/07/2018 21:39	WG1120795
4,4-DDT	U		0.000339	0.0255	1	06/07/2018 21:39	WG1120795
Dieldrin	U		0.000114	0.00255	1	06/07/2018 21:39	WG1120795
Endosulfan I	U		0.000273	0.0255	1	06/07/2018 21:39	WG1120795
Endosulfan II	U		0.000293	0.0255	1	06/07/2018 21:39	WG1120795
Endosulfan sulfate	U		0.000217	0.0255	1	06/07/2018 21:39	WG1120795
Endrin	U		0.000279	0.0255	1	06/07/2018 21:39	WG1120795
Endrin aldehyde	U		0.000309	0.0255	1	06/07/2018 21:39	WG1120795
Endrin ketone	U		0.000203	0.0255	1	06/07/2018 21:39	WG1120795
Heptachlor	U		0.000129	0.0255	1	06/07/2018 21:39	WG1120795
Heptachlor epoxide	U		0.000482	0.0255	1	06/07/2018 21:39	WG1120795
Hexachlorobenzene	U		0.000286	0.0255	1	06/07/2018 21:39	WG1120795
Methoxychlor	U		0.000338	0.0255	1	06/07/2018 21:39	WG1120795
Chlordane	U		0.0498	0.255	1	06/07/2018 21:39	WG1120795
Toxaphene	U		0.0459	0.510	1	06/07/2018 21:39	WG1120795
(S) Decachlorobiphenyl	*89.0*			*10.0-148*		*06/07/2018 21:39*	WG1120795
(S) Tetrachloro-m-xylene	*84.5*			*21.0-146*		*06/07/2018 21:39*	WG1120795

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00447	0.0217	1	06/06/2018 16:40	WG1120256
PCB 1221	U		0.00685	0.0217	1	06/06/2018 16:40	WG1120256
PCB 1232	U		0.00532	0.0217	1	06/06/2018 16:40	WG1120256
PCB 1242	U		0.00406	0.0217	1	06/06/2018 16:40	WG1120256
PCB 1248	U		0.00402	0.0217	1	06/06/2018 16:40	WG1120256
PCB 1254	U		0.00602	0.0217	1	06/06/2018 16:40	WG1120256
PCB 1260	U		0.00630	0.0217	1	06/06/2018 16:40	WG1120256
(S) Decachlorobiphenyl	*109*			*10.0-148*		*06/06/2018 16:40*	WG1120256
(S) Tetrachloro-m-xylene	*77.8*			*21.0-146*		*06/06/2018 16:40*	WG1120256

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	06/05/2018 15:04	WG1119708

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.85		0.805	2.48	1	06/06/2018 23:33	WG1119334
Lead	3.82		0.235	0.619	1	06/06/2018 23:33	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000289	0.0248	1	06/08/2018 00:20	WG1120795
Alpha BHC	U		0.000239	0.0248	1	06/08/2018 00:20	WG1120795
Beta BHC	U		0.000375	0.0248	1	06/08/2018 00:20	WG1120795
Delta BHC	U		0.000187	0.0248	1	06/08/2018 00:20	WG1120795
Gamma BHC	U		0.000303	0.0248	1	06/08/2018 00:20	WG1120795
4,4-DDD	U		0.000203	0.0248	1	06/08/2018 00:20	WG1120795
4,4-DDE	U		0.000204	0.0248	1	06/08/2018 00:20	WG1120795
4,4-DDT	0.00297	J	0.000329	0.0248	1	06/08/2018 00:20	WG1120795
Dieldrin	U		0.000110	0.00248	1	06/08/2018 00:20	WG1120795
Endosulfan I	U		0.000265	0.0248	1	06/08/2018 00:20	WG1120795
Endosulfan II	U		0.000285	0.0248	1	06/08/2018 00:20	WG1120795
Endosulfan sulfate	U		0.000211	0.0248	1	06/08/2018 00:20	WG1120795
Endrin	U		0.000271	0.0248	1	06/08/2018 00:20	WG1120795
Endrin aldehyde	U		0.000300	0.0248	1	06/08/2018 00:20	WG1120795
Endrin ketone	U		0.000197	0.0248	1	06/08/2018 00:20	WG1120795
Heptachlor	0.00116	J	0.000125	0.0248	1	06/08/2018 00:20	WG1120795
Heptachlor epoxide	U		0.000468	0.0248	1	06/08/2018 00:20	WG1120795
Hexachlorobenzene	U		0.000277	0.0248	1	06/08/2018 00:20	WG1120795
Methoxychlor	U		0.000328	0.0248	1	06/08/2018 00:20	WG1120795
Chlordane	U		0.0483	0.248	1	06/08/2018 00:20	WG1120795
Toxaphene	U		0.0446	0.495	1	06/08/2018 00:20	WG1120795
(S) Decachlorobiphenyl	*80.4*			*10.0-148*		*06/08/2018 00:20*	WG1120795
(S) Tetrachloro-m-xylene	*65.3*			*21.0-146*		*06/08/2018 00:20*	WG1120795

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00433	0.0211	1	06/06/2018 16:55	WG1120256
PCB 1221	U		0.00665	0.0211	1	06/06/2018 16:55	WG1120256
PCB 1232	U		0.00516	0.0211	1	06/06/2018 16:55	WG1120256
PCB 1242	U		0.00394	0.0211	1	06/06/2018 16:55	WG1120256
PCB 1248	U		0.00390	0.0211	1	06/06/2018 16:55	WG1120256
PCB 1254	U		0.00585	0.0211	1	06/06/2018 16:55	WG1120256
PCB 1260	U		0.00612	0.0211	1	06/06/2018 16:55	WG1120256
(S) Decachlorobiphenyl	*113*			*10.0-148*		*06/06/2018 16:55*	WG1120256
(S) Tetrachloro-m-xylene	*82.0*			*21.0-146*		*06/06/2018 16:55*	WG1120256

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5	J3	1	06/05/2018 15:04	WG1119708

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.13	J	0.711	2.19	1	06/06/2018 23:37	WG1119334
Lead	1.91		0.208	0.547	1	06/06/2018 23:37	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000255	0.0219	1	06/07/2018 21:53	WG1120795
Alpha BHC	U		0.000211	0.0219	1	06/07/2018 21:53	WG1120795
Beta BHC	U		0.000331	0.0219	1	06/07/2018 21:53	WG1120795
Delta BHC	U		0.000165	0.0219	1	06/07/2018 21:53	WG1120795
Gamma BHC	U		0.000268	0.0219	1	06/07/2018 21:53	WG1120795
4,4-DDD	U		0.000179	0.0219	1	06/07/2018 21:53	WG1120795
4,4-DDE	U		0.000180	0.0219	1	06/07/2018 21:53	WG1120795
4,4-DDT	U		0.000291	0.0219	1	06/07/2018 21:53	WG1120795
Dieldrin	U		0.0000973	0.00219	1	06/07/2018 21:53	WG1120795
Endosulfan I	U		0.000234	0.0219	1	06/07/2018 21:53	WG1120795
Endosulfan II	U		0.000251	0.0219	1	06/07/2018 21:53	WG1120795
Endosulfan sulfate	U		0.000186	0.0219	1	06/07/2018 21:53	WG1120795
Endrin	U		0.000239	0.0219	1	06/07/2018 21:53	WG1120795
Endrin aldehyde	U		0.000265	0.0219	1	06/07/2018 21:53	WG1120795
Endrin ketone	U		0.000174	0.0219	1	06/07/2018 21:53	WG1120795
Heptachlor	U		0.000110	0.0219	1	06/07/2018 21:53	WG1120795
Heptachlor epoxide	U		0.000413	0.0219	1	06/07/2018 21:53	WG1120795
Hexachlorobenzene	U		0.000245	0.0219	1	06/07/2018 21:53	WG1120795
Methoxychlor	U		0.000290	0.0219	1	06/07/2018 21:53	WG1120795
Chlordane	U		0.0426	0.219	1	06/07/2018 21:53	WG1120795
Toxaphene	U		0.0394	0.437	1	06/07/2018 21:53	WG1120795
(S) Decachlorobiphenyl	*78.3*			*10.0-148*		*06/07/2018 21:53*	WG1120795
(S) Tetrachloro-m-xylene	*74.7*			*21.0-146*		*06/07/2018 21:53*	WG1120795

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00383	0.0186	1	06/06/2018 17:09	WG1120256
PCB 1221	U		0.00587	0.0186	1	06/06/2018 17:09	WG1120256
PCB 1232	U		0.00456	0.0186	1	06/06/2018 17:09	WG1120256
PCB 1242	U		0.00348	0.0186	1	06/06/2018 17:09	WG1120256
PCB 1248	U		0.00344	0.0186	1	06/06/2018 17:09	WG1120256
PCB 1254	U		0.00516	0.0186	1	06/06/2018 17:09	WG1120256
PCB 1260	U		0.00540	0.0186	1	06/06/2018 17:09	WG1120256
(S) Decachlorobiphenyl	*115*			*10.0-148*		*06/06/2018 17:09*	WG1120256
(S) Tetrachloro-m-xylene	*83.9*			*21.0-146*		*06/06/2018 17:09*	WG1120256

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.1		1	06/05/2018 15:04	WG1119708

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		0.706	2.17	1	06/06/2018 23:40	WG1119334
Lead	U		0.206	0.543	1	06/06/2018 23:40	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000253	0.0217	1	06/07/2018 22:08	WG1120795
Alpha BHC	U		0.000210	0.0217	1	06/07/2018 22:08	WG1120795
Beta BHC	U		0.000329	0.0217	1	06/07/2018 22:08	WG1120795
Delta BHC	U		0.000164	0.0217	1	06/07/2018 22:08	WG1120795
Gamma BHC	U		0.000266	0.0217	1	06/07/2018 22:08	WG1120795
4,4-DDD	U		0.000178	0.0217	1	06/07/2018 22:08	WG1120795
4,4-DDE	U		0.000179	0.0217	1	06/07/2018 22:08	WG1120795
4,4-DDT	U		0.000289	0.0217	1	06/07/2018 22:08	WG1120795
Dieldrin	U		0.0000967	0.00217	1	06/07/2018 22:08	WG1120795
Endosulfan I	U		0.000232	0.0217	1	06/07/2018 22:08	WG1120795
Endosulfan II	U		0.000250	0.0217	1	06/07/2018 22:08	WG1120795
Endosulfan sulfate	U		0.000185	0.0217	1	06/07/2018 22:08	WG1120795
Endrin	U		0.000238	0.0217	1	06/07/2018 22:08	WG1120795
Endrin aldehyde	U		0.000263	0.0217	1	06/07/2018 22:08	WG1120795
Endrin ketone	U		0.000173	0.0217	1	06/07/2018 22:08	WG1120795
Heptachlor	U		0.000110	0.0217	1	06/07/2018 22:08	WG1120795
Heptachlor epoxide	U		0.000411	0.0217	1	06/07/2018 22:08	WG1120795
Hexachlorobenzene	U		0.000243	0.0217	1	06/07/2018 22:08	WG1120795
Methoxychlor	U		0.000288	0.0217	1	06/07/2018 22:08	WG1120795
Chlordane	U		0.0424	0.217	1	06/07/2018 22:08	WG1120795
Toxaphene	U		0.0391	0.434	1	06/07/2018 22:08	WG1120795
(S) Decachlorobiphenyl	*104*			*10.0-148*		*06/07/2018 22:08*	WG1120795
(S) Tetrachloro-m-xylene	*95.9*			*21.0-146*		*06/07/2018 22:08*	WG1120795

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00380	0.0185	1	06/06/2018 17:24	WG1120256
PCB 1221	U		0.00583	0.0185	1	06/06/2018 17:24	WG1120256
PCB 1232	U		0.00453	0.0185	1	06/06/2018 17:24	WG1120256
PCB 1242	U		0.00345	0.0185	1	06/06/2018 17:24	WG1120256
PCB 1248	U		0.00342	0.0185	1	06/06/2018 17:24	WG1120256
PCB 1254	U		0.00513	0.0185	1	06/06/2018 17:24	WG1120256
PCB 1260	U		0.00537	0.0185	1	06/06/2018 17:24	WG1120256
(S) Decachlorobiphenyl	*116*			*10.0-148*		*06/06/2018 17:24*	WG1120256
(S) Tetrachloro-m-xylene	*81.5*			*21.0-146*		*06/06/2018 17:24*	WG1120256

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.4		1	06/05/2018 15:04	WG1119708

Mercury by Method 7471A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0177	J	0.00332	0.0237	1	06/05/2018 00:15	WG1119382

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Antimony	U		0.888	2.37	1	06/06/2018 23:50	WG1119334
Arsenic	1.07	J	0.770	2.37	1	06/06/2018 23:50	WG1119334
Barium	245		0.201	0.592	1	06/06/2018 23:50	WG1119334
Beryllium	0.293		0.0829	0.237	1	06/06/2018 23:50	WG1119334
Cadmium	U		0.0829	0.592	1	06/06/2018 23:50	WG1119334
Chromium	12.5		0.166	1.18	1	06/06/2018 23:50	WG1119334
Cobalt	2.55		0.272	1.18	1	06/06/2018 23:50	WG1119334
Copper	38.1		0.628	2.37	1	06/06/2018 23:50	WG1119334
Lead	5.00		0.225	0.592	1	06/06/2018 23:50	WG1119334
Molybdenum	0.539	J	0.189	0.592	1	06/06/2018 23:50	WG1119334
Nickel	8.13		0.580	2.37	1	06/06/2018 23:50	WG1119334
Selenium	U		0.876	2.37	1	06/06/2018 23:50	WG1119334
Silver	U		0.332	1.18	1	06/06/2018 23:50	WG1119334
Thallium	U		0.770	2.37	1	06/06/2018 23:50	WG1119334
Vanadium	26.8		0.284	2.37	1	06/06/2018 23:50	WG1119334
Zinc	17.6		0.699	5.92	1	06/06/2018 23:50	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000276	0.0237	1	06/07/2018 23:51	WG1120795
Alpha BHC	U		0.000229	0.0237	1	06/07/2018 23:51	WG1120795
Beta BHC	U		0.000359	0.0237	1	06/07/2018 23:51	WG1120795
Delta BHC	U		0.000179	0.0237	1	06/07/2018 23:51	WG1120795
Gamma BHC	U		0.000290	0.0237	1	06/07/2018 23:51	WG1120795
4,4-DDD	U		0.000194	0.0237	1	06/07/2018 23:51	WG1120795
4,4-DDE	U		0.000195	0.0237	1	06/07/2018 23:51	WG1120795
4,4-DDT	U		0.000315	0.0237	1	06/07/2018 23:51	WG1120795
Dieldrin	U		0.000105	0.00237	1	06/07/2018 23:51	WG1120795
Endosulfan I	U		0.000253	0.0237	1	06/07/2018 23:51	WG1120795
Endosulfan II	U		0.000272	0.0237	1	06/07/2018 23:51	WG1120795
Endosulfan sulfate	U		0.000201	0.0237	1	06/07/2018 23:51	WG1120795
Endrin	U		0.000259	0.0237	1	06/07/2018 23:51	WG1120795
Endrin aldehyde	U		0.000287	0.0237	1	06/07/2018 23:51	WG1120795
Endrin ketone	U		0.000188	0.0237	1	06/07/2018 23:51	WG1120795
Heptachlor	U		0.000120	0.0237	1	06/07/2018 23:51	WG1120795
Heptachlor epoxide	U		0.000448	0.0237	1	06/07/2018 23:51	WG1120795
Hexachlorobenzene	U		0.000265	0.0237	1	06/07/2018 23:51	WG1120795
Methoxychlor	U		0.000314	0.0237	1	06/07/2018 23:51	WG1120795
Chlordane	U		0.0462	0.237	1	06/07/2018 23:51	WG1120795
Toxaphene	U		0.0426	0.474	1	06/07/2018 23:51	WG1120795
(S) Decachlorobiphenyl	*48.6*			*10.0-148*		*06/07/2018 23:51*	WG1120795
(S) Tetrachloro-m-xylene	*57.9*			*21.0-146*		*06/07/2018 23:51*	WG1120795

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00414	0.0201	1	06/07/2018 10:18	WG1120256
PCB 1221	U		0.00636	0.0201	1	06/07/2018 10:18	WG1120256
PCB 1232	U		0.00494	0.0201	1	06/07/2018 10:18	WG1120256
PCB 1242	U		0.00377	0.0201	1	06/07/2018 10:18	WG1120256
PCB 1248	U		0.00373	0.0201	1	06/07/2018 10:18	WG1120256
PCB 1254	U		0.00559	0.0201	1	06/07/2018 10:18	WG1120256
PCB 1260	U		0.00585	0.0201	1	06/07/2018 10:18	WG1120256
(S) Decachlorobiphenyl	*95.4*			*10.0-148*		*06/07/2018 10:18*	WG1120256
(S) Tetrachloro-m-xylene	*81.5*			*21.0-146*		*06/07/2018 10:18*	WG1120256

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.380	1.95	50	06/05/2018 07:18	WG1119399
Acenaphthylene	U		0.398	1.95	50	06/05/2018 07:18	WG1119399
Anthracene	U		0.374	1.95	50	06/05/2018 07:18	WG1119399
Benzidine	U	J4	3.77	19.7	50	06/05/2018 07:18	WG1119399
Benzo(a)anthracene	U		0.253	1.95	50	06/05/2018 07:18	WG1119399
Benzo(b)fluoranthene	U		0.412	1.95	50	06/05/2018 07:18	WG1119399
Benzo(k)fluoranthene	U		0.345	1.95	50	06/05/2018 07:18	WG1119399
Benzo(g,h,i)perylene	U		0.426	1.95	50	06/05/2018 07:18	WG1119399
Benzo(a)pyrene	U		0.324	1.95	50	06/05/2018 07:18	WG1119399
Bis(2-chlorethoxy)methane	U		0.456	19.7	50	06/05/2018 07:18	WG1119399
Bis(2-chloroethyl)ether	U		0.531	19.7	50	06/05/2018 07:18	WG1119399
Bis(2-chloroisopropyl)ether	U		0.450	19.7	50	06/05/2018 07:18	WG1119399
4-Bromophenyl-phenylether	U		0.675	19.7	50	06/05/2018 07:18	WG1119399
2-Chloronaphthalene	U		0.379	1.95	50	06/05/2018 07:18	WG1119399
4-Chlorophenyl-phenylether	U		0.372	19.7	50	06/05/2018 07:18	WG1119399
Chrysene	U		0.329	1.95	50	06/05/2018 07:18	WG1119399
Dibenz(a,h)anthracene	U		0.486	1.95	50	06/05/2018 07:18	WG1119399
3,3-Dichlorobenzidine	U		4.70	19.7	50	06/05/2018 07:18	WG1119399
2,4-Dinitrotoluene	U		0.360	19.7	50	06/05/2018 07:18	WG1119399
2,6-Dinitrotoluene	U		0.436	19.7	50	06/05/2018 07:18	WG1119399
Fluoranthene	U		0.294	1.95	50	06/05/2018 07:18	WG1119399
Fluorene	U		0.404	1.95	50	06/05/2018 07:18	WG1119399
Hexachlorobenzene	U		0.507	19.7	50	06/05/2018 07:18	WG1119399
Hexachloro-1,3-butadiene	U		0.592	19.7	50	06/05/2018 07:18	WG1119399
Hexachlorocyclopentadiene	U		3.48	19.7	50	06/05/2018 07:18	WG1119399
Hexachloroethane	U		0.793	19.7	50	06/05/2018 07:18	WG1119399
Indeno(1,2,3-cd)pyrene	U		0.457	1.95	50	06/05/2018 07:18	WG1119399
Isophorone	U		0.309	19.7	50	06/05/2018 07:18	WG1119399
Naphthalene	U		0.526	1.95	50	06/05/2018 07:18	WG1119399
Nitrobenzene	U		0.412	19.7	50	06/05/2018 07:18	WG1119399
n-Nitrosodimethylamine	U		3.84	19.7	50	06/05/2018 07:18	WG1119399
n-Nitrosodiphenylamine	U		0.352	19.7	50	06/05/2018 07:18	WG1119399
n-Nitrosodi-n-propylamine	U		0.536	19.7	50	06/05/2018 07:18	WG1119399
Phenanthrene	U		0.313	1.95	50	06/05/2018 07:18	WG1119399
Benzylbutyl phthalate	U		0.610	19.7	50	06/05/2018 07:18	WG1119399
Bis(2-ethylhexyl)phthalate	1.01	B J	0.711	19.7	50	06/05/2018 07:18	WG1119399
Di-n-butyl phthalate	U		0.645	19.7	50	06/05/2018 07:18	WG1119399
Diethyl phthalate	U		0.410	19.7	50	06/05/2018 07:18	WG1119399
Dimethyl phthalate	U		0.320	19.7	50	06/05/2018 07:18	WG1119399
Di-n-octyl phthalate	U		0.538	19.7	50	06/05/2018 07:18	WG1119399
Pyrene	U		0.728	1.95	50	06/05/2018 07:18	WG1119399
1,2,4-Trichlorobenzene	U		0.519	19.7	50	06/05/2018 07:18	WG1119399
4-Chloro-3-methylphenol	U		0.282	19.7	50	06/05/2018 07:18	WG1119399

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chlorophenol	U		0.493	19.7	50	06/05/2018 07:18	WG1119399
2,4-Dichlorophenol	U		0.442	19.7	50	06/05/2018 07:18	WG1119399
2,4-Dimethylphenol	U		2.79	19.7	50	06/05/2018 07:18	WG1119399
4,6-Dinitro-2-methylphenol	U		7.34	19.7	50	06/05/2018 07:18	WG1119399
2,4-Dinitrophenol	U		5.80	19.7	50	06/05/2018 07:18	WG1119399
2-Nitrophenol	U		0.770	19.7	50	06/05/2018 07:18	WG1119399
4-Nitrophenol	U		3.10	19.7	50	06/05/2018 07:18	WG1119399
Pentachlorophenol	U		2.84	19.7	50	06/05/2018 07:18	WG1119399
Phenol	U		0.412	19.7	50	06/05/2018 07:18	WG1119399
2,4,6-Trichlorophenol	U		0.462	19.7	50	06/05/2018 07:18	WG1119399
(S) 2-Fluorophenol	*60.6*	J7		*20.0-120*		*06/05/2018 07:18*	WG1119399
(S) Phenol-d5	*51.8*	J7		*20.0-120*		*06/05/2018 07:18*	WG1119399
(S) Nitrobenzene-d5	*59.7*	J7		*18.0-125*		*06/05/2018 07:18*	WG1119399
(S) 2-Fluorobiphenyl	*59.3*	J7		*28.0-120*		*06/05/2018 07:18*	WG1119399
(S) 2,4,6-Tribromophenol	*58.0*	J7		*17.0-137*		*06/05/2018 07:18*	WG1119399
(S) p-Terphenyl-d14	*68.9*	J7		*13.0-131*		*06/05/2018 07:18*	WG1119399

Sample Narrative:

L998278-14 WG1119399: Cannot run at lower dilution due to viscosity of extract

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00173	J	0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Acenaphthene	U		0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Acenaphthylene	U		0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Benzo(a)anthracene	0.00132	J	0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Benzo(a)pyrene	0.00484	J	0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Benzo(b)fluoranthene	0.00485	J	0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Benzo(g,h,i)perylene	0.0171		0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Benzo(k)fluoranthene	0.00205	J	0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Chrysene	0.00119	J	0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Dibenz(a,h)anthracene	0.00227	J	0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Fluoranthene	0.00200	J	0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Fluorene	0.00129	J	0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Indeno(1,2,3-cd)pyrene	0.00134	J	0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Naphthalene	0.00821	J	0.00237	0.0237	1	06/07/2018 12:26	WG1119426
Phenanthrene	0.00870		0.000711	0.00711	1	06/07/2018 12:26	WG1119426
Pyrene	0.00310	J	0.000711	0.00711	1	06/07/2018 12:26	WG1119426
1-Methylnaphthalene	0.00408	J	0.00237	0.0237	1	06/07/2018 12:26	WG1119426
2-Methylnaphthalene	0.0131	J	0.00237	0.0237	1	06/07/2018 12:26	WG1119426
2-Chloronaphthalene	U		0.00237	0.0237	1	06/07/2018 12:26	WG1119426
(S) p-Terphenyl-d14	*85.1*			*23.0-120*		*06/07/2018 12:26*	WG1119426
(S) Nitrobenzene-d5	*105*			*14.0-149*		*06/07/2018 12:26*	WG1119426
(S) 2-Fluorobiphenyl	*81.3*			*34.0-125*		*06/07/2018 12:26*	WG1119426

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.2		1	06/05/2018 15:04	WG1119708

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	U		0.831	2.56	1	06/06/2018 23:53	WG1119334
Lead	U		0.243	0.640	1	06/06/2018 23:53	WG1119334

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000298	0.0256	1	06/07/2018 22:23	WG1120795
Alpha BHC	U		0.000247	0.0256	1	06/07/2018 22:23	WG1120795
Beta BHC	U		0.000388	0.0256	1	06/07/2018 22:23	WG1120795
Delta BHC	U		0.000193	0.0256	1	06/07/2018 22:23	WG1120795
Gamma BHC	U		0.000313	0.0256	1	06/07/2018 22:23	WG1120795
4,4-DDD	U		0.000210	0.0256	1	06/07/2018 22:23	WG1120795
4,4-DDE	U		0.000211	0.0256	1	06/07/2018 22:23	WG1120795
4,4-DDT	U		0.000340	0.0256	1	06/07/2018 22:23	WG1120795
Dieldrin	U		0.000114	0.00256	1	06/07/2018 22:23	WG1120795
Endosulfan I	U		0.000274	0.0256	1	06/07/2018 22:23	WG1120795
Endosulfan II	U		0.000294	0.0256	1	06/07/2018 22:23	WG1120795
Endosulfan sulfate	U		0.000217	0.0256	1	06/07/2018 22:23	WG1120795
Endrin	U		0.000280	0.0256	1	06/07/2018 22:23	WG1120795
Endrin aldehyde	U		0.000310	0.0256	1	06/07/2018 22:23	WG1120795
Endrin ketone	U		0.000203	0.0256	1	06/07/2018 22:23	WG1120795
Heptachlor	U		0.000129	0.0256	1	06/07/2018 22:23	WG1120795
Heptachlor epoxide	U		0.000483	0.0256	1	06/07/2018 22:23	WG1120795
Hexachlorobenzene	U		0.000287	0.0256	1	06/07/2018 22:23	WG1120795
Methoxychlor	U		0.000339	0.0256	1	06/07/2018 22:23	WG1120795
Chlordane	U		0.0499	0.256	1	06/07/2018 22:23	WG1120795
Toxaphene	U		0.0460	0.512	1	06/07/2018 22:23	WG1120795
(S) Decachlorobiphenyl	*87.0*			*10.0-148*		*06/07/2018 22:23*	WG1120795
(S) Tetrachloro-m-xylene	*83.8*			*21.0-146*		*06/07/2018 22:23*	WG1120795

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.00448	0.0217	1	06/07/2018 10:32	WG1120256
PCB 1221	U		0.00687	0.0217	1	06/07/2018 10:32	WG1120256
PCB 1232	U		0.00533	0.0217	1	06/07/2018 10:32	WG1120256
PCB 1242	U		0.00407	0.0217	1	06/07/2018 10:32	WG1120256
PCB 1248	U		0.00403	0.0217	1	06/07/2018 10:32	WG1120256
PCB 1254	U		0.00604	0.0217	1	06/07/2018 10:32	WG1120256
PCB 1260	U		0.00632	0.0217	1	06/07/2018 10:32	WG1120256
(S) Decachlorobiphenyl	*95.7*			*10.0-148*		*06/07/2018 10:32*	WG1120256
(S) Tetrachloro-m-xylene	*75.0*			*21.0-146*		*06/07/2018 10:32*	WG1120256

Method Blank (MB)

(MB) R3315676-1 06/05/18 09:52

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L998278-10 Original Sample (OS) • Duplicate (DUP)

(OS) L998278-10 06/05/18 09:52 • (DUP) R3315676-3 06/05/18 09:52

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	78.4	77.3	1	1.45		5

Laboratory Control Sample (LCS)

(LCS) R3315676-2 06/05/18 09:52

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3315721-1 06/05/18 15:04

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L998278-12 Original Sample (OS) • Duplicate (DUP)

(OS) L998278-12 06/05/18 15:04 • (DUP) R3315721-3 06/05/18 15:04

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	91.5	85.7	1	6.45	J3	5

Laboratory Control Sample (LCS)

(LCS) R3315721-2 06/05/18 15:04

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3315305-1 06/04/18 23:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Mercury	U		0.00280	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315305-2 06/04/18 23:44 • (LCSD) R3315305-3 06/04/18 23:47

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Mercury	0.300	0.290	0.293	96.7	97.6	80.0-120			0.906	20

L998678-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998678-01 06/04/18 23:50 • (MS) R3315305-4 06/04/18 23:52 • (MSD) R3315305-5 06/04/18 23:55

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.300	0.0158	0.327	0.321	104	102	1	75.0-125			1.70	20

Method Blank (MB)

(MB) R3316047-1 06/06/18 22:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Antimony	U		0.750	2.00
Arsenic	U		0.650	2.00
Barium	U		0.170	0.500
Beryllium	U		0.0700	0.200
Cadmium	U		0.0700	0.500
Chromium	U		0.140	1.00
Cobalt	U		0.230	1.00
Copper	U		0.530	2.00
Lead	U		0.190	0.500
Molybdenum	U		0.160	0.500
Nickel	U		0.490	2.00
Selenium	U		0.740	2.00
Silver	U		0.280	1.00
Thallium	U		0.650	2.00
Vanadium	U		0.240	2.00
Zinc	U		0.590	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316047-2 06/06/18 22:33 • (LCSD) R3316047-3 06/06/18 22:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	100	99.5	102	99.5	102	80.0-120			2.62	20
Arsenic	100	98.7	101	98.7	101	80.0-120			1.88	20
Barium	100	103	105	103	105	80.0-120			2.19	20
Beryllium	100	102	104	102	104	80.0-120			2.51	20
Cadmium	100	97.7	100	97.7	100	80.0-120			2.37	20
Chromium	100	101	104	101	104	80.0-120			2.86	20
Cobalt	100	101	105	101	105	80.0-120			3.43	20
Copper	100	102	106	102	106	80.0-120			3.22	20
Lead	100	97.5	101	97.5	101	80.0-120			3.55	20
Molybdenum	100	104	107	104	107	80.0-120			2.65	20
Nickel	100	99.0	102	99.0	102	80.0-120			3.14	20
Selenium	100	98.1	99.4	98.1	99.4	80.0-120			1.30	20
Silver	20.0	18.0	18.8	90.1	93.9	80.0-120			4.19	20
Thallium	100	96.1	100	96.1	100	80.0-120			4.06	20
Vanadium	100	99.9	103	99.9	103	80.0-120			2.81	20
Zinc	100	97.0	99.6	97.0	99.6	80.0-120			2.71	20

L998278-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998278-08 06/06/18 22:40 • (MS) R3316047-6 06/06/18 22:50 • (MSD) R3316047-7 06/06/18 22:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	109	U	44.6	33.6	40.8	30.8	1	75.0-125	J6	J3 J6	28.0	20
Arsenic	109	0.991	117	101	106	91.8	1	75.0-125			14.6	20
Barium	109	45.9	151	138	96.2	84.8	1	75.0-125			8.62	20
Beryllium	109	0.0878	115	100	105	91.5	1	75.0-125			13.9	20
Cadmium	109	0.368	121	106	110	96.9	1	75.0-125			12.8	20
Chromium	109	238	312	354	67.6	107	1	75.0-125	J6		12.7	20
Cobalt	109	37.1	165	151	117	104	1	75.0-125			8.67	20
Copper	109	64.9	200	185	124	110	1	75.0-125			7.77	20
Lead	109	U	120	106	109	96.7	1	75.0-125			12.4	20
Molybdenum	109	U	111	96.1	101	88.0	1	75.0-125			14.2	20
Nickel	109	199	333	326	122	116	1	75.0-125			2.13	20
Selenium	109	U	117	101	107	92.0	1	75.0-125			15.2	20
Silver	21.8	U	22.0	19.1	101	87.3	1	75.0-125			14.2	20
Thallium	109	U	115	101	105	92.7	1	75.0-125			12.3	20
Vanadium	109	114	211	204	88.8	82.8	1	75.0-125			3.13	20
Zinc	109	42.4	144	132	93.0	81.8	1	75.0-125			8.89	20

Method Blank (MB)

(MB) R3316497-3 06/06/18 11:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*72.3*			*10.0-148*
(S) Tetrachloro-m-xylene	*73.4*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316497-1 06/06/18 10:56 • (LCSD) R3316497-2 06/06/18 11:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0468	0.0441	70.2	66.1	55.0-137			6.06	29
Alpha BHC	0.0667	0.0478	0.0446	71.7	66.8	55.0-136			6.94	28
Beta BHC	0.0667	0.0476	0.0448	71.3	67.1	53.0-133			6.08	28
Delta BHC	0.0667	0.0481	0.0463	72.0	69.4	53.0-139			3.70	29
Gamma BHC	0.0667	0.0472	0.0445	70.7	66.7	54.0-136			5.80	29
4,4-DDD	0.0667	0.0479	0.0452	71.9	67.7	51.0-141			5.89	29
4,4-DDE	0.0667	0.0448	0.0422	67.2	63.2	53.0-142			6.08	30
4,4-DDT	0.0667	0.0478	0.0463	71.6	69.4	47.0-143			3.12	30
Dieldrin	0.0667	0.0472	0.0448	70.8	67.2	54.0-141			5.19	29
Endosulfan I	0.0667	0.0449	0.0425	67.3	63.7	54.0-141			5.55	29

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316497-1 06/06/18 10:56 • (LCSD) R3316497-2 06/06/18 11:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0667	0.0476	0.0452	71.3	67.8	53.0-140			5.06	28
Endosulfan sulfate	0.0667	0.0472	0.0458	70.7	68.7	52.0-141			2.88	29
Endrin	0.0667	0.0466	0.0457	69.9	68.5	52.0-137			2.03	29
Endrin aldehyde	0.0667	0.0458	0.0439	68.7	65.9	30.0-127			4.25	31
Endrin ketone	0.0667	0.0521	0.0498	78.1	74.6	51.0-139			4.55	28
Heptachlor	0.0667	0.0471	0.0463	70.6	69.4	53.0-144			1.66	29
Heptachlor epoxide	0.0667	0.0454	0.0438	68.1	65.6	54.0-137			3.72	28
Hexachlorobenzene	0.0667	0.0441	0.0420	66.1	63.0	50.0-135			4.84	28
Methoxychlor	0.0667	0.0506	0.0491	75.8	73.6	49.0-145			2.98	29
(S) Decachlorobiphenyl				*79.2*	*76.9*	*10.0-148*				
(S) Tetrachloro-m-xylene				*76.6*	*73.4*	*21.0-146*				

L998278-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998278-01 06/06/18 16:06 • (MS) R3316497-4 06/06/18 16:21 • (MSD) R3316497-5 06/06/18 16:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0738	U	0.0425	0.0466	57.5	63.1	1	19.0-152			9.35	24
Alpha BHC	0.0738	U	0.0466	0.0507	63.1	68.6	1	39.0-152			8.50	21
Beta BHC	0.0738	U	0.0483	0.0534	65.4	72.4	1	38.0-150			10.2	20
Delta BHC	0.0738	U	0.0484	0.0542	65.5	73.4	1	34.0-155			11.4	21
Gamma BHC	0.0738	U	0.0452	0.0498	61.2	67.5	1	38.0-153			9.79	21
4,4-DDD	0.0738	U	0.0475	0.0542	64.4	73.4	1	22.0-160			13.1	25
4,4-DDE	0.0738	U	0.0400	0.0441	54.2	59.7	1	10.0-160			9.58	27
4,4-DDT	0.0738	0.00307	0.0323	0.0329	39.5	40.3	1	10.0-160			1.86	28
Dieldrin	0.0738	U	0.0431	0.0479	58.4	64.9	1	30.0-158			10.5	25
Endosulfan I	0.0738	U	0.0412	0.0458	55.8	62.0	1	31.0-155			10.6	25
Endosulfan II	0.0738	U	0.0429	0.0475	58.1	64.3	1	32.0-156			10.2	25
Endosulfan sulfate	0.0738	U	0.0449	0.0490	60.8	66.4	1	31.0-158			8.72	24
Endrin	0.0738	U	0.0449	0.0509	60.8	68.9	1	30.0-149			12.6	25
Endrin aldehyde	0.0738	U	0.0410	0.0456	55.5	61.8	1	20.0-157			10.8	26
Endrin ketone	0.0738	U	0.0463	0.0512	62.7	69.4	1	32.0-154			10.2	23
Heptachlor	0.0738	U	0.0418	0.0461	56.7	62.5	1	18.0-160			9.76	23
Heptachlor epoxide	0.0738	U	0.0431	0.0479	58.4	64.9	1	31.0-154			10.5	25
Hexachlorobenzene	0.0738	U	0.0447	0.0486	60.5	65.8	1	26.0-146			8.29	21
Methoxychlor	0.0738	U	0.0343	0.0374	46.5	50.6	1	10.0-160			8.59	27
(S) Decachlorobiphenyl					*76.5*	*82.8*		*10.0-148*				
(S) Tetrachloro-m-xylene					*62.2*	*68.0*		*21.0-146*				

Method Blank (MB)

(MB) R3316257-3 06/07/18 16:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*75.7*			*10.0-148*
(S) Tetrachloro-m-xylene	*88.5*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316257-1 06/07/18 15:45 • (LCSD) R3316257-2 06/07/18 15:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0537	0.0560	80.6	83.9	55.0-137			4.09	29
Alpha BHC	0.0667	0.0542	0.0565	81.3	84.6	55.0-136			4.00	28
Beta BHC	0.0667	0.0496	0.0518	74.4	77.7	53.0-133			4.34	28
Delta BHC	0.0667	0.0510	0.0554	76.5	83.1	53.0-139			8.28	29
Gamma BHC	0.0667	0.0523	0.0546	78.4	81.8	54.0-136			4.25	29
4,4-DDD	0.0667	0.0579	0.0609	86.8	91.3	51.0-141			5.11	29
4,4-DDE	0.0667	0.0526	0.0551	78.9	82.6	53.0-142			4.61	30
4,4-DDT	0.0667	0.0435	0.0454	65.3	68.1	47.0-143			4.17	30
Dieldrin	0.0667	0.0537	0.0563	80.5	84.4	54.0-141			4.72	29
Endosulfan I	0.0667	0.0522	0.0547	78.3	82.0	54.0-141			4.62	29

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316257-1 06/07/18 15:45 • (LCSD) R3316257-2 06/07/18 15:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0667	0.0520	0.0545	78.0	81.8	53.0-140			4.75	28
Endosulfan sulfate	0.0667	0.0510	0.0534	76.4	80.0	52.0-141			4.56	29
Endrin	0.0667	0.0526	0.0551	78.9	82.6	52.0-137			4.59	29
Endrin aldehyde	0.0667	0.0475	0.0499	71.2	74.9	30.0-127			5.02	31
Endrin ketone	0.0667	0.0526	0.0550	78.8	82.4	51.0-139			4.50	28
Heptachlor	0.0667	0.0523	0.0549	78.4	82.3	53.0-144			4.85	29
Heptachlor epoxide	0.0667	0.0521	0.0552	78.1	82.7	54.0-137			5.77	28
Hexachlorobenzene	0.0667	0.0496	0.0514	74.4	77.1	50.0-135			3.49	28
Methoxychlor	0.0667	0.0462	0.0476	69.2	71.4	49.0-145			3.17	29
(S) Decachlorobiphenyl				*69.1*	*74.9*	*10.0-148*				
(S) Tetrachloro-m-xylene				*82.6*	*89.2*	*21.0-146*				

L998648-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998648-02 06/07/18 19:26 • (MS) R3316418-1 06/07/18 19:41 • (MSD) R3316418-2 06/07/18 19:55

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0771	U	0.0689	0.0516	89.4	66.9	1	19.0-152		J3	28.8	24
Alpha BHC	0.0771	U	0.0715	0.0559	92.7	72.5	1	39.0-152		J3	24.5	21
Beta BHC	0.0771	U	0.0714	0.0566	92.6	73.4	1	38.0-150		J3	23.2	20
Delta BHC	0.0771	U	0.0726	0.0568	94.2	73.7	1	34.0-155		J3	24.4	21
Gamma BHC	0.0771	U	0.0708	0.0556	91.9	72.1	1	38.0-153		J3	24.2	21
4,4-DDD	0.0771	U	0.0779	0.0597	101	77.5	1	22.0-160		J3	26.4	25
4,4-DDE	0.0771	U	0.0718	0.0540	93.1	70.0	1	10.0-160		J3	28.3	27
4,4-DDT	0.0771	U	0.0784	0.0587	102	76.2	1	10.0-160		J3	28.7	28
Dieldrin	0.0771	U	0.0741	0.0577	96.1	74.8	1	30.0-158			24.9	25
Endosulfan I	0.0771	U	0.0684	0.0532	88.6	69.0	1	31.0-155			25.0	25
Endosulfan II	0.0771	U	0.0718	0.0559	93.1	72.5	1	32.0-156			24.9	25
Endosulfan sulfate	0.0771	U	0.0784	0.0629	102	81.6	1	31.0-158			22.0	24
Endrin	0.0771	U	0.0778	0.0609	101	79.0	1	30.0-149			24.3	25
Endrin aldehyde	0.0771	U	0.0703	0.0525	91.2	68.1	1	20.0-157		J3	29.0	26
Endrin ketone	0.0771	U	0.0850	0.0665	110	86.3	1	32.0-154		J3	24.3	23
Heptachlor	0.0771	U	0.0721	0.0545	93.6	70.6	1	18.0-160		J3	27.9	23
Heptachlor epoxide	0.0771	U	0.0704	0.0543	91.3	70.4	1	31.0-154		J3	25.9	25
Hexachlorobenzene	0.0771	U	0.0662	0.0509	85.9	66.0	1	26.0-146		J3	26.2	21
Methoxychlor	0.0771	U	0.0822	0.0619	107	80.2	1	10.0-160		J3	28.2	27
(S) Decachlorobiphenyl					*103*	*67.0*		*10.0-148*				
(S) Tetrachloro-m-xylene					*85.6*	*60.8*		*21.0-146*				

Method Blank (MB)

(MB) R3316019-1 06/06/18 14:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
(S) Decachlorobiphenyl	*97.1*			*10.0-148*
(S) Tetrachloro-m-xylene	*85.1*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316019-2 06/06/18 14:57 • (LCSD) R3316019-3 06/06/18 15:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.167	0.133	0.154	79.6	92.6	37.0-145			15.2	37
PCB 1016	0.167	0.138	0.150	82.6	89.9	36.0-141			8.43	35
(S) Decachlorobiphenyl				*82.7*	*110*	*10.0-148*				
(S) Tetrachloro-m-xylene				*83.6*	*89.0*	*21.0-146*				

L998278-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998278-01 06/06/18 17:55 • (MS) R3316019-4 06/06/18 18:08 • (MSD) R3316019-5 06/06/18 18:22

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.185	U	0.127	0.138	68.6	74.6	1	10.0-160			8.37	31
PCB 1016	0.185	U	0.132	0.133	71.4	72.0	1	17.0-160			0.738	30
(S) Decachlorobiphenyl					*69.5*	*81.1*		*10.0-148*				
(S) Tetrachloro-m-xylene					*77.8*	*74.9*		*21.0-146*				

Method Blank (MB)

(MB) R3315920-1 06/06/18 15:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
(S) Decachlorobiphenyl	*98.9*			*10.0-148*
(S) Tetrachloro-m-xylene	*68.6*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3315920-2 06/06/18 15:57 • (LCSD) R3315920-3 06/06/18 16:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.167	0.110	0.105	66.2	62.8	37.0-145			5.28	37
PCB 1016	0.167	0.105	0.0982	63.0	58.9	36.0-141			6.74	35
(S) Decachlorobiphenyl				*105*	*97.5*	*10.0-148*				
(S) Tetrachloro-m-xylene				*71.7*	*66.1*	*21.0-146*				

L998700-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998700-01 06/07/18 11:13 • (MS) R3316141-1 06/07/18 11:27 • (MSD) R3316141-2 06/07/18 11:41

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.167	ND	0.150	0.162	90.0	97.3	1	10.0-160			7.83	31
PCB 1016	0.167	ND	0.135	0.147	80.8	88.0	1	17.0-160			8.52	30
(S) Decachlorobiphenyl					*98.2*	*110*		*10.0-148*				
(S) Tetrachloro-m-xylene					*79.8*	*84.8*		*21.0-146*				

Method Blank (MB)

(MB) R3316158-3 06/05/18 00:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0330
Acenaphthylene	U		0.00671	0.0330
Anthracene	U		0.00632	0.0330
Benzidine	U		0.0637	0.333
Benzo(a)anthracene	U		0.00428	0.0330
Benzo(b)fluoranthene	U		0.00695	0.0330
Benzo(k)fluoranthene	U		0.00582	0.0330
Benzo(g,h,i)perylene	U		0.00721	0.0330
Benzo(a)pyrene	U		0.00548	0.0330
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0330
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	U		0.00555	0.0330
Dibenz(a,h)anthracene	U		0.00821	0.0330
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	U		0.00496	0.0330
Fluorene	U		0.00682	0.0330
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0330
Isophorone	U		0.00522	0.333
Naphthalene	U		0.00889	0.0330
Nitrobenzene	U		0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	U		0.00594	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	U		0.00528	0.0330
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	0.0543	J	0.0120	0.333
Di-n-butyl phthalate	U		0.0109	0.333
Diethyl phthalate	U		0.00691	0.333
Dimethyl phthalate	U		0.00540	0.333
Di-n-octyl phthalate	U		0.00907	0.333

Method Blank (MB)

(MB) R3316158-3 06/05/18 00:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.0123	0.0330
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	U		0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	*71.9*			*18.0-125*
(S) 2-Fluorobiphenyl	*74.4*			*28.0-120*
(S) p-Terphenyl-d14	*87.6*			*13.0-131*
(S) Phenol-d5	*63.7*			*20.0-120*
(S) 2-Fluorophenol	*75.1*			*20.0-120*
(S) 2,4,6-Tribromophenol	*67.0*			*17.0-137*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316158-1 06/04/18 23:28 • (LCSD) R3316158-2 06/04/18 23:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	0.470	0.432	70.5	64.8	47.0-120			8.33	21
Acenaphthylene	0.667	0.501	0.453	75.1	67.9	48.0-120			10.2	21
Anthracene	0.667	0.454	0.406	68.0	60.9	46.0-120			11.1	20
Benzidine	0.667	ND	ND	0.000	0.000	1.00-120	J4	J4	0.000	36
Benzo(a)anthracene	0.667	0.544	0.520	81.6	78.0	46.0-120			4.56	20
Benzo(b)fluoranthene	0.667	0.488	0.447	73.2	67.0	45.0-120			8.86	22
Benzo(k)fluoranthene	0.667	0.507	0.434	76.0	65.0	45.0-120			15.6	23
Benzo(g,h,i)perylene	0.667	0.548	0.510	82.2	76.5	48.0-120			7.21	21
Benzo(a)pyrene	0.667	0.507	0.446	76.0	66.8	46.0-120			12.9	21
Bis(2-chlorethoxy)methane	0.667	0.352	0.318	52.8	47.6	41.0-120			10.4	22
Bis(2-chloroethyl)ether	0.667	0.446	0.395	66.9	59.3	28.0-120			12.1	28
Bis(2-chloroisopropyl)ether	0.667	0.404	0.359	60.6	53.8	40.0-120			11.9	27
4-Bromophenyl-phenylether	0.667	0.516	0.455	77.4	68.2	45.0-120			12.6	20
2-Chloronaphthalene	0.667	0.488	0.439	73.2	65.9	43.0-120			10.6	22

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316158-1 06/04/18 23:28 • (LCSD) R3316158-2 06/04/18 23:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.667	0.487	0.440	73.0	65.9	46.0-120			10.1	21
Chrysene	0.667	0.530	0.492	79.4	73.8	46.0-120			7.34	20
Dibenz(a,h)anthracene	0.667	0.554	0.511	83.0	76.6	47.0-120			8.09	22
3,3-Dichlorobenzidine	0.667	0.424	0.421	63.6	63.0	20.0-130			0.935	24
2,4-Dinitrotoluene	0.667	0.557	0.500	83.5	75.0	48.0-122			10.8	21
2,6-Dinitrotoluene	0.667	0.507	0.462	76.0	69.2	46.0-120			9.34	21
Fluoranthene	0.667	0.503	0.446	75.4	66.8	46.0-120			12.0	20
Fluorene	0.667	0.468	0.424	70.2	63.6	47.0-120			9.94	20
Hexachlorobenzene	0.667	0.521	0.486	78.2	72.8	42.0-120			7.04	20
Hexachloro-1,3-butadiene	0.667	0.418	0.364	62.7	54.5	36.0-120			14.0	26
Hexachlorocyclopentadiene	0.667	0.431	0.402	64.7	60.2	20.0-124			7.09	26
Hexachloroethane	0.667	0.421	0.363	63.1	54.4	32.0-120			14.8	31
Indeno(1,2,3-cd)pyrene	0.667	0.564	0.528	84.6	79.2	48.0-120			6.65	21
Isophorone	0.667	0.399	0.367	59.8	55.0	42.0-120			8.42	21
Naphthalene	0.667	0.370	0.337	55.5	50.5	41.0-120			9.48	24
Nitrobenzene	0.667	0.403	0.364	60.4	54.5	36.0-120			10.3	24
n-Nitrosodimethylamine	0.667	0.567	0.416	85.1	62.4	20.0-120			30.8	31
n-Nitrosodiphenylamine	0.667	0.462	0.437	69.2	65.5	42.0-120			5.56	20
n-Nitrosodi-n-propylamine	0.667	0.481	0.418	72.1	62.7	39.0-120			13.9	23
Phenanthrene	0.667	0.483	0.432	72.5	64.8	45.0-120			11.2	20
Benzylbutyl phthalate	0.667	0.491	0.458	73.6	68.7	41.0-123			6.98	20
Bis(2-ethylhexyl)phthalate	0.667	0.553	0.519	83.0	77.9	41.0-124			6.32	20
Di-n-butyl phthalate	0.667	0.533	0.469	79.9	70.3	44.0-120			12.9	20
Diethyl phthalate	0.667	0.524	0.478	78.6	71.7	46.0-120			9.08	20
Dimethyl phthalate	0.667	0.495	0.459	74.2	68.8	47.0-120			7.47	21
Di-n-octyl phthalate	0.667	0.573	0.544	85.8	81.5	40.0-123			5.16	21
Pyrene	0.667	0.511	0.479	76.7	71.8	45.0-120			6.60	21
1,2,4-Trichlorobenzene	0.667	0.388	0.344	58.1	51.6	40.0-120			11.9	25
4-Chloro-3-methylphenol	0.667	0.392	0.359	58.8	53.9	46.0-120			8.73	20
2-Chlorophenol	0.667	0.462	0.399	69.3	59.9	37.0-120			14.6	27
2,4-Dichlorophenol	0.667	0.439	0.376	65.9	56.4	45.0-120			15.6	21
2,4-Dimethylphenol	0.667	0.370	0.345	55.5	51.7	40.0-120			7.04	22
4,6-Dinitro-2-methylphenol	0.667	0.622	0.556	93.2	83.4	34.0-120			11.1	23
2,4-Dinitrophenol	0.667	0.424	0.421	63.5	63.2	10.0-120			0.556	30
2-Nitrophenol	0.667	0.427	0.385	64.0	57.7	42.0-120			10.3	24
4-Nitrophenol	0.667	0.411	0.357	61.6	53.5	40.0-120			14.1	21
Pentachlorophenol	0.667	0.406	0.357	60.8	53.6	33.0-122			12.7	22
Phenol	0.667	0.450	0.386	67.4	57.9	38.0-120			15.3	25
2,4,6-Trichlorophenol	0.667	0.515	0.486	77.1	72.9	47.0-120			5.71	22
(S) Nitrobenzene-d5				*61.0*	*53.6*	*18.0-125*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316158-1 06/04/18 23:28 • (LCSD) R3316158-2 06/04/18 23:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorobiphenyl				*72.1*	*61.6*	*28.0-120*				
(S) p-Terphenyl-d14				*86.7*	*78.3*	*13.0-131*				
(S) Phenol-d5				*61.9*	*54.2*	*20.0-120*				
(S) 2-Fluorophenol				*74.0*	*65.0*	*20.0-120*				
(S) 2,4,6-Tribromophenol				*70.8*	*66.3*	*17.0-137*				

L998278-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998278-08 06/05/18 03:09 • (MS) R3316158-4 06/05/18 03:37 • (MSD) R3316158-5 06/05/18 04:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.729	U	0.417	0.478	57.2	65.5	1	37.0-120			13.6	23
Acenaphthylene	0.729	U	0.429	0.488	58.9	67.0	1	41.0-120			12.9	22
Anthracene	0.729	U	0.459	0.483	63.1	66.3	1	30.0-123			4.98	25
Benzidine	0.729	U	ND	ND	0.000	0.000	1	1.00-120	J6	J6	0.000	36
Benzo(a)anthracene	0.729	U	0.522	0.515	71.6	70.7	1	21.0-123			1.21	26
Benzo(b)fluoranthene	0.729	U	0.447	0.468	61.4	64.2	1	20.0-127			4.40	29
Benzo(k)fluoranthene	0.729	U	0.454	0.499	62.3	68.4	1	22.0-123			9.44	28
Benzo(g,h,i)perylene	0.729	U	0.363	0.315	49.8	43.2	1	10.0-120			14.1	32
Benzo(a)pyrene	0.729	U	0.462	0.490	63.4	67.3	1	23.0-120			5.93	27
Bis(2-chlorethoxy)methane	0.729	U	0.255	0.332	35.0	45.5	1	37.0-120	J6	J3	26.0	22
Bis(2-chloroethyl)ether	0.729	U	0.278	0.380	38.2	52.1	1	26.0-120		J3	30.9	27
Bis(2-chloroisopropyl)ether	0.729	U	0.291	0.346	39.9	47.5	1	35.0-120			17.4	25
4-Bromophenyl-phenylether	0.729	U	0.493	0.525	67.7	72.1	1	34.0-120			6.28	23
2-Chloronaphthalene	0.729	U	0.397	0.466	54.4	64.0	1	40.0-120			16.1	22
4-Chlorophenyl-phenylether	0.729	U	0.456	0.504	62.6	69.2	1	37.0-120			10.0	23
Chrysene	0.729	U	0.519	0.514	71.2	70.5	1	19.0-127			0.952	27
Dibenz(a,h)anthracene	0.729	U	0.409	0.373	56.2	51.1	1	10.0-120			9.38	28
3,3-Dichlorobenzidine	0.729	U	0.408	0.376	55.9	51.6	1	10.0-142			8.10	30
2,4-Dinitrotoluene	0.729	U	0.533	0.584	73.2	80.2	1	37.0-129			9.14	24
2,6-Dinitrotoluene	0.729	U	0.461	0.513	63.3	70.4	1	40.0-120			10.6	23
Fluoranthene	0.729	U	0.515	0.556	70.7	76.3	1	20.0-133			7.60	28
Fluorene	0.729	U	0.442	0.497	60.7	68.2	1	35.0-120			11.6	23
Hexachlorobenzene	0.729	U	0.525	0.533	72.0	73.2	1	33.0-120			1.63	24
Hexachloro-1,3-butadiene	0.729	U	0.319	0.358	43.8	49.2	1	33.0-120			11.6	25
Hexachlorocyclopentadiene	0.729	U	0.260	0.297	35.7	40.8	1	10.0-120			13.4	33
Hexachloroethane	0.729	U	0.302	0.338	41.4	46.4	1	21.0-120			11.4	30
Indeno(1,2,3-cd)pyrene	0.729	U	0.410	0.373	56.2	51.2	1	10.0-120			9.30	30
Isophorone	0.729	U	0.298	0.374	40.8	51.4	1	38.0-120		J3	22.8	22

L998278-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998278-08 06/05/18 03:09 • (MS) R3316158-4 06/05/18 03:37 • (MSD) R3316158-5 06/05/18 04:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.729	U	0.289	0.338	39.6	46.4	1	37.0-120			15.7	25
Nitrobenzene	0.729	U	0.270	0.365	37.1	50.1	1	32.0-120		J3	29.9	24
n-Nitrosodimethylamine	0.729	U	0.351	0.327	48.1	44.8	1	18.0-120			7.06	27
n-Nitrosodiphenylamine	0.729	U	0.459	0.479	63.0	65.8	1	20.0-125			4.30	25
n-Nitrosodi-n-propylamine	0.729	U	0.322	0.413	44.2	56.7	1	34.0-120		J3	24.6	23
Phenanthrene	0.729	U	0.484	0.507	66.4	69.5	1	24.0-124			4.67	25
Benzylbutyl phthalate	0.729	U	0.485	0.474	66.6	65.0	1	18.0-130			2.39	27
Bis(2-ethylhexyl)phthalate	0.729	0.0654	0.541	0.549	65.3	66.3	1	19.0-127			1.41	28
Di-n-butyl phthalate	0.729	U	0.539	0.560	74.0	76.9	1	29.0-120			3.90	26
Diethyl phthalate	0.729	U	0.522	0.552	71.6	75.8	1	42.0-121			5.63	23
Dimethyl phthalate	0.729	U	0.461	0.504	63.2	69.1	1	42.0-120			8.93	23
Di-n-octyl phthalate	0.729	U	0.592	0.591	81.3	81.1	1	21.0-122			0.263	27
Pyrene	0.729	U	0.473	0.463	64.9	63.5	1	19.0-127			2.10	29
1,2,4-Trichlorobenzene	0.729	U	0.302	0.360	41.4	49.4	1	39.0-120			17.6	25
4-Chloro-3-methylphenol	0.729	U	0.371	0.429	50.9	58.8	1	37.0-121			14.5	23
2-Chlorophenol	0.729	U	0.297	0.393	40.7	53.9	1	34.0-120		J3	28.0	25
2,4-Dichlorophenol	0.729	U	0.335	0.378	46.0	51.9	1	41.0-120			12.1	22
2,4-Dimethylphenol	0.729	U	0.307	0.365	42.1	50.1	1	27.0-120			17.4	25
4,6-Dinitro-2-methylphenol	0.729	U	0.544	0.650	74.6	89.3	1	10.0-131			17.9	29
2,4-Dinitrophenol	0.729	U	0.407	0.472	55.8	64.8	1	10.0-142			14.8	30
2-Nitrophenol	0.729	U	0.291	0.388	40.0	53.2	1	34.0-124		J3	28.5	27
4-Nitrophenol	0.729	U	0.427	0.503	58.6	69.0	1	26.0-133			16.4	25
Pentachlorophenol	0.729	U	0.454	0.527	62.2	72.4	1	15.0-152			15.0	26
Phenol	0.729	U	0.209	0.395	28.7	54.1	1	33.0-120	J6	J3	61.6	24
2,4,6-Trichlorophenol	0.729	U	0.489	0.549	67.2	75.4	1	40.0-125			11.5	24
(S) Nitrobenzene-d5					*37.3*	*54.1*		*18.0-125*				
(S) 2-Fluorobiphenyl					*48.9*	*63.3*		*28.0-120*				
(S) p-Terphenyl-d14					*70.9*	*72.9*		*13.0-131*				
(S) Phenol-d5					*23.6*	*50.9*		*20.0-120*				
(S) 2-Fluorophenol					*47.8*	*58.7*		*20.0-120*				
(S) 2,4,6-Tribromophenol					*64.7*	*72.1*		*17.0-137*				

Method Blank (MB)

(MB) R3316250-3 06/06/18 21:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.000600	0.00600
Acenaphthene	U		0.000600	0.00600
Acenaphthylene	U		0.000600	0.00600
Benzo(a)anthracene	U		0.000600	0.00600
Benzo(a)pyrene	U		0.000600	0.00600
Benzo(b)fluoranthene	U		0.000600	0.00600
Benzo(g,h,i)perylene	U		0.000600	0.00600
Benzo(k)fluoranthene	U		0.000600	0.00600
Chrysene	U		0.000600	0.00600
Dibenz(a,h)anthracene	U		0.000600	0.00600
Fluoranthene	U		0.000600	0.00600
Fluorene	U		0.000600	0.00600
Indeno(1,2,3-cd)pyrene	U		0.000600	0.00600
Naphthalene	U		0.00200	0.0200
Phenanthrene	U		0.000600	0.00600
Pyrene	U		0.000600	0.00600
1-Methylnaphthalene	U		0.00200	0.0200
2-Methylnaphthalene	U		0.00200	0.0200
2-Chloronaphthalene	U		0.00200	0.0200
(S) Nitrobenzene-d5	*109*			*14.0-149*
(S) 2-Fluorobiphenyl	*94.5*			*34.0-125*
(S) p-Terphenyl-d14	*93.6*			*23.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316250-1 06/06/18 20:29 • (LCSD) R3316250-2 06/06/18 20:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	0.0716	0.0696	89.4	87.0	50.0-125			2.74	20
Acenaphthene	0.0800	0.0701	0.0690	87.6	86.2	52.0-120			1.64	20
Acenaphthylene	0.0800	0.0798	0.0786	99.7	98.3	51.0-120			1.42	20
Benzo(a)anthracene	0.0800	0.0744	0.0727	93.0	90.8	46.0-121			2.36	20
Benzo(a)pyrene	0.0800	0.0643	0.0619	80.3	77.4	42.0-121			3.75	20
Benzo(b)fluoranthene	0.0800	0.0709	0.0695	88.7	86.9	42.0-123			2.06	20
Benzo(g,h,i)perylene	0.0800	0.0713	0.0661	89.1	82.6	43.0-128			7.55	20
Benzo(k)fluoranthene	0.0800	0.0699	0.0667	87.4	83.3	45.0-128			4.81	20
Chrysene	0.0800	0.0700	0.0682	87.6	85.3	48.0-127			2.61	20
Dibenz(a,h)anthracene	0.0800	0.0742	0.0688	92.7	86.0	43.0-132			7.56	20
Fluoranthene	0.0800	0.0743	0.0734	92.8	91.7	49.0-129			1.22	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3316250-1 06/06/18 20:29 • (LCSD) R3316250-2 06/06/18 20:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Fluorene	0.0800	0.0716	0.0703	89.5	87.8	50.0-120			1.91	20
Indeno(1,2,3-cd)pyrene	0.0800	0.0729	0.0677	91.2	84.6	44.0-131			7.48	20
Naphthalene	0.0800	0.0701	0.0684	87.6	85.5	50.0-120			2.43	20
Phenanthrene	0.0800	0.0674	0.0658	84.3	82.2	48.0-120			2.44	20
Pyrene	0.0800	0.0669	0.0650	83.6	81.3	48.0-135			2.84	20
1-Methylnaphthalene	0.0800	0.0723	0.0708	90.3	88.5	52.0-122			2.02	20
2-Methylnaphthalene	0.0800	0.0689	0.0678	86.1	84.7	52.0-120			1.64	20
2-Chloronaphthalene	0.0800	0.0724	0.0711	90.5	88.9	50.0-120			1.72	20
(S) Nitrobenzene-d5				*119*	*114*	*14.0-149*				
(S) 2-Fluorobiphenyl				*103*	*98.8*	*34.0-125*				
(S) p-Terphenyl-d14				*100*	*96.4*	*23.0-120*				

L998371-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L998371-05 06/06/18 21:33 • (MS) R3316250-4 06/06/18 21:54 • (MSD) R3316250-5 06/06/18 22:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0921	U	0.0717	0.0697	77.8	75.7	1	20.0-136			2.73	24
Acenaphthene	0.0921	U	0.0706	0.0706	76.7	76.7	1	29.0-124			0.0443	20
Acenaphthylene	0.0921	U	0.0794	0.0789	86.2	85.6	1	35.0-120			0.707	20
Benzo(a)anthracene	0.0921	U	0.0697	0.0694	75.7	75.3	1	13.0-132			0.502	27
Benzo(a)pyrene	0.0921	U	0.0710	0.0715	77.1	77.6	1	14.0-138			0.661	27
Benzo(b)fluoranthene	0.0921	U	0.0684	0.0710	74.2	77.1	1	10.0-129			3.82	31
Benzo(g,h,i)perylene	0.0921	U	0.0633	0.0645	68.7	70.1	1	10.0-133			1.96	30
Benzo(k)fluoranthene	0.0921	U	0.0678	0.0660	73.7	71.6	1	15.0-131			2.78	27
Chrysene	0.0921	U	0.0667	0.0680	72.4	73.9	1	15.0-137			2.00	25
Dibenz(a,h)anthracene	0.0921	U	0.0657	0.0677	71.4	73.6	1	15.0-132			3.02	27
Fluoranthene	0.0921	U	0.0723	0.0721	78.5	78.3	1	13.0-139			0.236	28
Fluorene	0.0921	U	0.0712	0.0702	77.3	76.2	1	27.0-122			1.43	22
Indeno(1,2,3-cd)pyrene	0.0921	U	0.0653	0.0669	70.9	72.7	1	11.0-133			2.51	29
Naphthalene	0.0921	U	0.0713	0.0717	77.4	77.8	1	18.0-136			0.553	21
Phenanthrene	0.0921	U	0.0661	0.0659	71.7	71.6	1	15.0-133			0.199	25
Pyrene	0.0921	U	0.0640	0.0638	69.5	69.3	1	11.0-146			0.331	29
1-Methylnaphthalene	0.0921	U	0.0741	0.0746	80.4	81.0	1	24.0-137			0.744	22
2-Methylnaphthalene	0.0921	U	0.0706	0.0712	76.7	77.4	1	23.0-136			0.884	22
2-Chloronaphthalene	0.0921	U	0.0725	0.0726	78.7	78.8	1	36.0-120			0.113	20
(S) Nitrobenzene-d5					*104*	*106*		*14.0-149*				
(S) 2-Fluorobiphenyl					*88.4*	*91.3*		*34.0-125*				
(S) p-Terphenyl-d14					*82.0*	*85.7*		*23.0-120*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
P	RPD between the primary and confirmatory analysis exceeded 40%.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

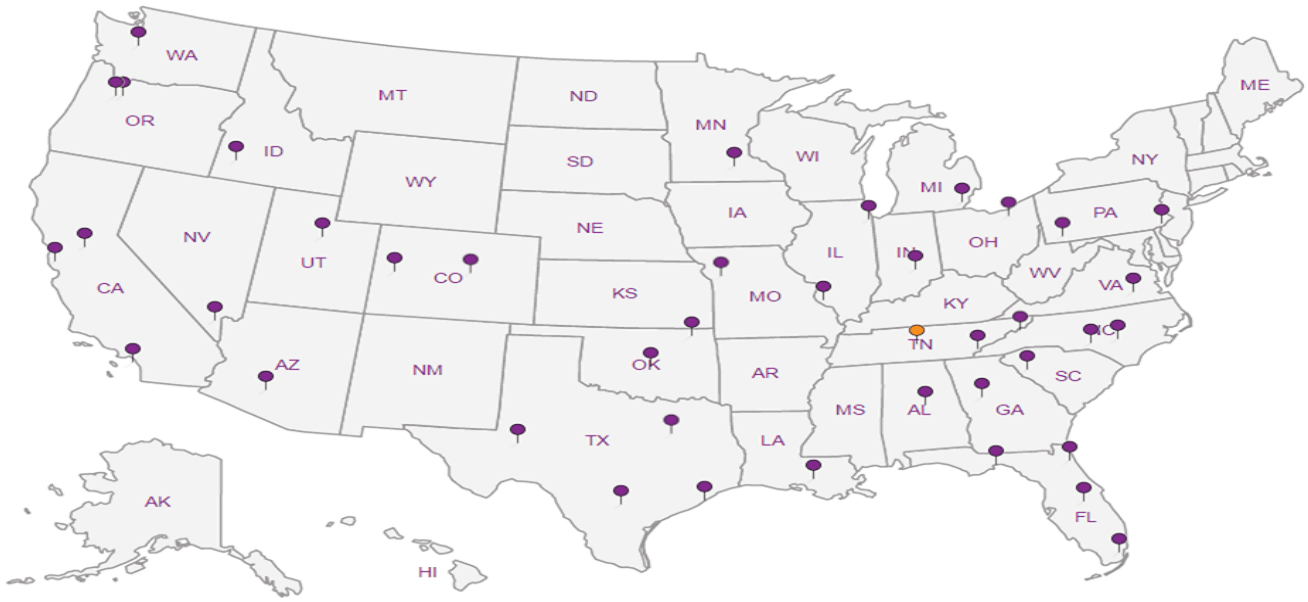
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.



Set B

McCloskey Consultants Inc.

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LABORATORIES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Tom McCloskey / Chris Vertin

Email To: Tom McCloskey / Chris Vertin

Project Description: Taft Community School

City/State Collected: Redwood City CA

Phone: 925 786.2667
Fax:

Client Project #

Lab Project #

L# L998278

Table B162

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Acctnum:

Template: 6-002

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPs + PCBs	Arsenic	Lead	CAM17	PAH - 8270 SIM	Semi VOCs 8270	Remarks	Sample # (lab only)
BP-1	Grab	SS	1-1½	5:29:18	17:33	1	X	X	X				~~[illegible]~~ CMV 5-31-18	-01
BP-3			1-1½		17:07					X	X	X		-02
BP-7			1-1½		15:20			X	X					-03
BP-8A			1-1½'		15:32					X	X	X		-04
BP-8B			1-1½'		15:35					X	X	X		-05
BP-9			½-1'		13:15			X	X					-06
BP-10			½-1'		13:40			X	X					-07
BP-12			1-1½'		11:40					X	X	X		-08
BP-13			1-1½		14:22			X	X					-09
BP-14					14:30			X	X					-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4269 9210 4509

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
[signature]	5/31/18	1440	[signature] ESC	

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C	Bottles Received:	If preservation required by Login: Date/Time
[signature] ESC	5/31/18	1630	Fed Ex	1.2 °C	15	

Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	Hold:	Condition: NCF / OK
			[signature]	6/1/18	8:45		OK

Set B

McCloskey Consultants Inc.

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LAB SCIENCES
a subsidiary of

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Tom McCloskey / Chris Vertin

Email To: Tom McCloskey / Chris Vertin

Project Description: Taft Community School

City/State Collected: Redwood City, CA

Phone: 925-786-2667
Fax:

Client Project #

Lab Project #

L#

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Table #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Acctnum:
Template:
Prelogin:
TSR:
PB:

Immediately
Packed on Ice N ___ Y X

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPs + PCBs	Arsenic	Lead	CAM 17	PAHs - 8270 SIM	Semi VOCs 8270	Remarks	Sample # (lab only)
BP-15	Grab	SS	½-1'	5.29.18	15:08	1	X	X	X				Hold	
BP-16	"	"	1-1½	"	15:45	"	X	X	X				"	
BP-17	"	"	1-1½	"	16:34	"	X	X	X				"	
BP-19	"	"	1-1½	"	14:00	"	X			X	X	X	"	
BP-20	"	"	1-1½	"	12:05	"	X	X	X				"	

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ____ Temp ____

Flow ____ Other ____

Samples returned via:
__ UPS __ FedEx __ Courier ____

Tracking # 4269 9210 4509

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	5/31/18	1440	FEDEX
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
FEDEX	5/31/18	1630	FedEx
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 1.2 °C Bottles Received: 15

If preservation required by Login: Date/Time

Date: 6/1/18 Time: 8:45

Hold:

Condition: NCF / OK

Andy Vann

From: Brian Ford
Sent: Friday, June 01, 2018 12:29 PM
To: Login; Brian Ford
Subject: L998278 *MCCCONDCA* log off hold

Please log all samples on page 2 of the COC for the analyses marked. Hold label 6-002. Can be added to L998278.

Thanks,

Brian Ford
Technical Service Representative
ESC Lab Sciences-a subsidiary of Pace Analytical
12065 Lebanon Road | Mt. Juliet, TN 37122
615.773.9772
bford@esclabsciences.com | www.esclabsciences.com

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Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

September 28, 2018

McCloskey Consulting - Danville, CA

Sample Delivery Group:	L1029451
Samples Received:	09/12/2018
Project Number:	
Description:	Taft Community School

Report To: Tom McCloskey
420 Sycamore Valley Rd West
Danville, CA 94526

Entire Report Reviewed By:

Jason Romer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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SS-1W@5'- 2-2.5' L1029451-01 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 15:05 | Received date/time: 09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172744	1	09/28/18 06:50	09/28/18 07:00	JD
Metals (ICP) by Method 6010B	WG1172738	1	09/28/18 07:23	09/28/18 09:40	TRB

SS-1W@10' - 0.5-1' L1029451-02 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 15:15 | Received date/time: 09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172744	1	09/28/18 06:50	09/28/18 07:00	JD
Metals (ICP) by Method 6010B	WG1172738	1	09/28/18 07:23	09/28/18 09:52	TRB

SS-1W@10' - 2-2.5' L1029451-03 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 15:07 | Received date/time: 09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172744	1	09/28/18 06:50	09/28/18 07:00	JD
Metals (ICP) by Method 6010B	WG1172738	1	09/28/18 07:23	09/28/18 09:55	TRB

HS-4N@5'- 2-2.5' L1029451-04 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 12:30 | Received date/time: 09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172744	1	09/28/18 06:50	09/28/18 07:00	JD
Metals (ICP) by Method 6010B	WG1172738	1	09/28/18 07:23	09/28/18 10:03	TRB

HS-4N@10' - 0.5-1' L1029451-05 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 12:45 | Received date/time: 09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172744	1	09/28/18 06:50	09/28/18 07:00	JD
Metals (ICP) by Method 6010B	WG1172738	1	09/28/18 07:23	09/28/18 10:05	TRB

HS-4N@10' - 2-2.5' L1029451-06 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 12:40 | Received date/time: 09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172745	1	09/28/18 06:37	09/28/18 06:48	JD
Metals (ICP) by Method 6010B	WG1172738	1	09/28/18 07:23	09/28/18 10:08	TRB

HS-4W@5'- 2-2.5' L1029451-07 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 12:54 | Received date/time: 09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172745	1	09/28/18 06:37	09/28/18 06:48	JD
Metals (ICP) by Method 6010B	WG1172738	1	09/28/18 07:23	09/28/18 10:10	TRB

HS-4W@10' - 0.5-1' L1029451-08 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	09/08/18 13:04	09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172745	1	09/28/18 06:37	09/28/18 06:48	JD
Metals (ICP) by Method 6010B	WG1172738	1	09/28/18 07:23	09/28/18 10:13	TRB

HS-4W@10' - 2-2.5' L1029451-09 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	09/08/18 12:56	09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172745	1	09/28/18 06:37	09/28/18 06:48	JD
Metals (ICP) by Method 6010B	WG1172738	1	09/28/18 07:23	09/28/18 10:15	TRB

HS-4S@5'- 2-2.5' L1029451-10 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	09/08/18 13:08	09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172745	1	09/28/18 06:37	09/28/18 06:48	JD
Metals (ICP) by Method 6010B	WG1172738	1	09/28/18 07:23	09/28/18 10:18	TRB

HS-4S@10' - 0.5-1' L1029451-11 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	09/08/18 13:18	09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172745	1	09/28/18 06:37	09/28/18 06:48	JD
Metals (ICP) by Method 6010B	WG1172738	1	09/28/18 07:23	09/28/18 10:20	TRB

HS-4S@10' - 2-2.5' L1029451-12 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	09/08/18 13:10	09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172745	1	09/28/18 06:37	09/28/18 06:48	JD
Metals (ICP) by Method 6010B	WG1172738	1	09/28/18 07:23	09/28/18 10:23	TRB

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Metals (ICP) by Method 6010B

Client ID	Lab Sample ID	Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
			mg/kg		mg/kg	mg/kg		date / time	
SS-1W@5'- 2-2.5'	L1029451-01	Arsenic	1.23	J	0.557	2.42	1	09/28/2018 09:40	WG1172738
SS-1W@10' - 0.5-1'	L1029451-02	Arsenic	0.795	J	0.521	2.27	1	09/28/2018 09:52	WG1172738
SS-1W@10' - 2-2.5'	L1029451-03	Arsenic	0.629	J	0.552	2.40	1	09/28/2018 09:55	WG1172738
HS-4N@5'- 2-2.5'	L1029451-04	Cobalt	13.4		0.285	1.24	1	09/28/2018 10:03	WG1172738
HS-4N@10' - 0.5-1'	L1029451-05	Cobalt	20.0		0.268	1.17	1	09/28/2018 10:05	WG1172738
HS-4N@10' - 2-2.5'	L1029451-06	Cobalt	7.53		0.292	1.27	1	09/28/2018 10:08	WG1172738
HS-4W@5'- 2-2.5'	L1029451-07	Cobalt	10.1		0.303	1.32	1	09/28/2018 10:10	WG1172738
HS-4W@10' - 0.5-1'	L1029451-08	Cobalt	13.5		0.277	1.21	1	09/28/2018 10:13	WG1172738
HS-4W@10' - 2-2.5'	L1029451-09	Cobalt	12.3		0.301	1.31	1	09/28/2018 10:15	WG1172738
HS-4S@5'- 2-2.5'	L1029451-10	Cobalt	10.5		0.295	1.28	1	09/28/2018 10:18	WG1172738
HS-4S@10' - 0.5-1'	L1029451-11	Cobalt	7.73		0.276	1.20	1	09/28/2018 10:20	WG1172738
HS-4S@10' - 2-2.5'	L1029451-12	Cobalt	30.1		0.275	1.19	1	09/28/2018 10:23	WG1172738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	09/28/2018 07:00	WG1172744

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.23	J	0.557	2.42	1	09/28/2018 09:40	WG1172738

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.2		1	09/28/2018 07:00	WG1172744

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	0.795	J	0.521	2.27	1	09/28/2018 09:52	WG1172738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.3		1	09/28/2018 07:00	WG1172744

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	0.629	J	0.552	2.40	1	09/28/2018 09:55	WG1172738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.8		1	09/28/2018 07:00	WG1172744

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	13.4		0.285	1.24	1	09/28/2018 10:03	WG1172738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.7		1	09/28/2018 07:00	WG1172744

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	20.0		0.268	1.17	1	09/28/2018 10:05	WG1172738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.9		1	09/28/2018 06:48	WG1172745

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	7.53		0.292	1.27	1	09/28/2018 10:08	WG1172738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.9		1	09/28/2018 06:48	WG1172745

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	10.1		0.303	1.32	1	09/28/2018 10:10	WG1172738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.9		1	09/28/2018 06:48	WG1172745

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	13.5		0.277	1.21	1	09/28/2018 10:13	WG1172738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.5		1	09/28/2018 06:48	WG1172745

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	12.3		0.301	1.31	1	09/28/2018 10:15	WG1172738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.1		1	09/28/2018 06:48	WG1172745

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	10.5		0.295	1.28	1	09/28/2018 10:18	WG1172738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.4		1	09/28/2018 06:48	WG1172745

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	7.73		0.276	1.20	1	09/28/2018 10:20	WG1172738

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.7		1	09/28/2018 06:48	WG1172745

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	30.1		0.275	1.19	1	09/28/2018 10:23	WG1172738

Method Blank (MB)

(MB) R3346008-1 09/28/18 07:00

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1029445-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1029445-01 09/28/18 07:00 • (DUP) R3346008-3 09/28/18 07:00

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.4	86.0	1	0.525		10

Laboratory Control Sample (LCS)

(LCS) R3346008-2 09/28/18 07:00

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3346006-1 09/28/18 06:48

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1029451-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1029451-07 09/28/18 06:48 • (DUP) R3346006-3 09/28/18 06:48

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	75.9	76.2	1	0.387		10

Laboratory Control Sample (LCS)

(LCS) R3346006-2 09/28/18 06:48

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3346019-1 09/28/18 09:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.460	2.00
Cobalt	U		0.230	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3346019-2 09/28/18 09:35 • (LCSD) R3346019-3 09/28/18 09:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	95.9	96.7	95.9	96.7	80.0-120			0.871	20
Cobalt	100	101	101	101	101	80.0-120			0.627	20

L1029451-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1029451-01 09/28/18 09:40 • (MS) R3346019-6 09/28/18 09:47 • (MSD) R3346019-7 09/28/18 09:50

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	121	1.23	106	109	86.6	89.4	1	75.0-125			3.11	20
Cobalt	121	10.2	120	127	90.8	96.6	1	75.0-125			5.73	20

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

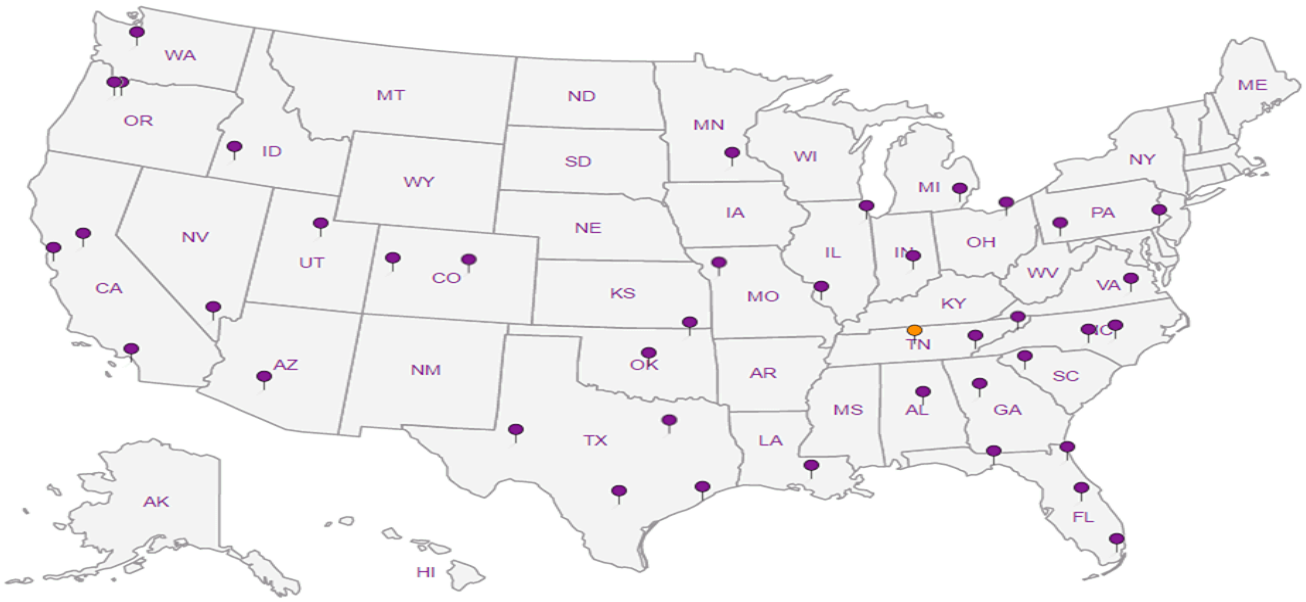
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



McCloskey Consultants Inc

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 3 of 5

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Tom McCloskey / Chris Vertin

Email To:

Project Description: Taft Community School

City/State Collected: Redwood City, CA

Phone: 925.786.2667
Fax:

Client Project #

Lab Project #

L# ~~L1025157~~ G104 L1029451

N 9/27/18

Tab

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Arsenic	Remarks	Sample # (lab only)
SS-1S @5' S.O. -½-1'	Grab	SS	½-1'	9.8.18	14:19	1	X		08
SS-1S @5' S.O. -2-2½'			2-2½'		14:14			Hold	
SS-1S @10' S.O. -½-1'			½-1'		14:23			Hold	
SS-1S @10' S.O. -2-2½'			2-2½		14:16			Hold	
SS-1W @ 5' S.O. -½-1'			½-1'		15:12		X		09
SS-1W @ 5' S.O. -2-2½'			2-2½'		15:05			Hold	-01
SS-1W @ 10' S.O. -½-1'			½-1'		15:15			Hold	-02
SS-1W @ 10' S.O. -2-2½'			2-2½'		15:07			Hold	-03

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
[signature]	9/11/18	0725	[signature] PACE		
Relinquished by: (Signature) [signature] PACE	Date: 9/11/18	Time: 1630	Received by: (Signature) FedEx	Temp: 0.5°C Bottles Received: 40	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [signature] 861	Date: 9/12/18 Time: 8:45	Hold: 09-0039 Conditions NCF / OK

McCloskey Consultants Inc

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 4 of 5

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Tom McCloskey / Chris Vertin

Email To:

Project Description: Taft Community School

City/State Collected: Redwood City CA

Phone: 925.786.2667
Fax:

Client Project #

Lab Project #

L# ~~L1025153~~ AV 9/21/18

Table # L1029451

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Collected by (signature):

Immediately Packed on Ice: N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPB (8081)	Cobalt								Remarks	Sample # (lab only)
HS-4 @ 2-2½'	Grab	SS	2-2½'	9-8-18	12:24	1	X	X									~~10~~
HS-4N @ 5' S.O. - ½-1'			½-1'		12:43		X	X									~~11~~
HS-4N @ 5' S.O. - 2-2½'			2-2½'		12:38											Hold	-04
HS-4N @ 10' S.O. - ½-1'			½-1		12:45											Hold	-05
HS-4N @ 10' S.O. - 2-2½			2-2½		12:40											Hold	-06
HS-4W @ 5' S.O. - ½-1'			½-1'		13:00		X	X									~~12~~
HS-4W @ 5' S.O. - 2-2½			2-2½'		12:54											Hold	-07
HS-4W @ 10' S.O. - ½-1'			½-1'		13:04											Hold	-08
HS-4W @ 10' S.O. - 2-2½			2-2½'		12:56											Hold	-09

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other _____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: ✓ __N
Bottles arrive intact: ✓ __N
Correct bottles used: ✓ __N
Sufficient volume sent: ✓ __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
[signature]	9/11/18	0725	[signature] PACE		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.5°C Bottles Received: 40	If preservation required by Login: Date/Time
[signature] PACE	9/11/18	1630	FedEx		
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/12/18 Time: 8:45	Hold: Condition: NCF / OK
			[signature] SCL		

McCloskey Consultants Inc

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 5 of 5

Pace Analytical*
Natural Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Tom McCloskey / Chris Verton

Email To:

Project Description: Taft Community School

City/State Collected: Redwood City CA

Phone: 925 786 2667
Fax:

Client Project #

Lab Project #

L# L1025157

Table #

Collected by (print): Chris Verton

Site/Facility ID #

P.O. #

Acctnum:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPs (8081)	Cobalt								Remarks	Sample # (lab only)
HS-4S @5' S.O. - ½-1'	Grab	SS	½-1'	9-8-18	1316	1	X	X									-9
HS-4S @5' S.O. - 2-2½	"	"	2-2½	"	1303	"										Hold	-10
HS-4S @10' S.O. - 1½-1'	"	"	1-1½'	"	1318	"										Hold	-11
HS-4S @10' S.O. - 2-2½'	"	"	2-2½	"	1310	"										Hold	-12

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Samples returned via:
__ UPS __ FedEx __ Courier __ ___

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR
	9/11/18	0725	PACE	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.8°C Bottles Received: 40
PACE	9/11/18	1630	FedEx	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/12/18 Time: 8:45
			861	

if preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

N 9/27/18

Andy Vann

From: Jason Romer
Sent: Thursday, September 27, 2018 4:20 PM
To: Jared N. Starkey; Login; Sample Storage
Cc: Brian Ford; Due Metals
Subject: RE: *MCCCONDCA* Log HOLD Samples L1025157

UPDATE – these need to be logged as R2 due tomorrow, 09/28

Please log and get these to the lab ASAP. Please make sure TS is started this afternoon.

Thanks,

Jason Romer
Project Manager

Pace Analytical National Center for Testing & Innovation
12065 Lebanon Road | Mt. Juliet, TN 37122
615.773.9713
jromer@pacenational.com | pacenational.com

From: Jared N. Starkey
Sent: Thursday, September 27, 2018 11:51 AM
To: Login; Sample Storage
Cc: Jason Romer; Brian Ford
Subject: *MCCCONDCA* Log HOLD Samples L1025157

Please log the following HOLD samples, 5-day TAT
L1025157

ASICP,TS

SS-1W@5'- 2-2.5'
SS-1W@10' – 0.5-1'
SS-1W@10' – 2-2.5'

COICP,TS

HS-4N@5'- 2-2.5'
HS-4N@10' – 0.5-1'
HS-4N@10' – 2-2.5'

HS-4W@5'- 2-2.5'
HS-4W@10' – 0.5-1'
HS-4W@10' – 2-2.5'

HS-4S@5'- 2-2.5'

HS-4S@10' – 0.5-1'
HS-4S@10' – 2-2.5'

Thanks

Jared Starkey
Assistant Project Manager

Pace Analytical National Center for Testing & Innovation
12065 Lebanon Road | Mt. Juliet, TN 37122
615.773.9698
jstarkey@pacenational.com | pacenational.com

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Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

September 19, 2018

McCloskey Consulting - Danville, CA

Sample Delivery Group:	L1025157
Samples Received:	09/12/2018
Project Number:	
Description:	Taft Community School

Report To: Tom McCloskey
420 Sycamore Valley Rd West
Danville, CA 94526

Entire Report Reviewed By:

Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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BP-4@2-2.5' L1025157-01 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	09/08/18 13:28	09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166414	1	09/17/18 08:54	09/17/18 09:03	KDW
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 14:36	TRB

BP-4@5'S.O.-1-1.5' L1025157-02 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	09/08/18 13:33	09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166414	1	09/17/18 08:54	09/17/18 09:03	KDW
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 14:38	TRB

BP-13@2-2.5' L1025157-03 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	09/08/18 13:39	09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166414	1	09/17/18 08:54	09/17/18 09:03	KDW
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 14:41	TRB

BP-13@5'S.O.-1-1.5' L1025157-04 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	09/08/18 13:50	09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166414	1	09/17/18 08:54	09/17/18 09:03	KDW
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 14:44	TRB

SS-1@2-2.5' L1025157-05 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	09/08/18 14:11	09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166415	1	09/15/18 09:52	09/15/18 10:00	KS
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 14:46	TRB

SS-1N@5'S.O.-0.5-1' L1025157-06 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	09/08/18 14:41	09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166415	1	09/15/18 09:52	09/15/18 10:00	KS
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 14:49	TRB

SS-1E@5'S.O.-0.5-1' L1025157-07 Solid

Collected by	Collected date/time	Received date/time
Chris Vertin	09/08/18 14:53	09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166415	1	09/15/18 09:52	09/15/18 10:00	KS
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 14:52	TRB

SS-1S@5'S.O.-0.5-1' L1025157-08 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 14:19 | Received date/time: 09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166415	1	09/15/18 09:52	09/15/18 10:00	KS
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 14:54	TRB

SS-1W@5'S.O.-0.5-1' L1025157-09 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 15:12 | Received date/time: 09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166415	1	09/15/18 09:52	09/15/18 10:00	KS
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 15:03	TRB

HS-4@2-2.5' L1025157-10 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 12:24 | Received date/time: 09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166415	1	09/15/18 09:52	09/15/18 10:00	KS
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 15:05	TRB
Pesticides (GC) by Method 8081	WG1165833	1	09/15/18 13:28	09/16/18 17:56	VKS

HS-4N@5'S.O.-0.5-1' L1025157-11 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 12:43 | Received date/time: 09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166415	1	09/15/18 09:52	09/15/18 10:00	KS
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 15:08	TRB
Pesticides (GC) by Method 8081	WG1165833	1	09/15/18 13:28	09/16/18 18:11	VKS

HS-4W@5'S.O.-0.5-1' L1025157-12 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 13:00 | Received date/time: 09/12/18 08:45

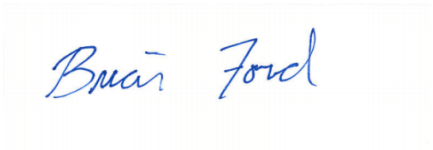
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166415	1	09/15/18 09:52	09/15/18 10:00	KS
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 15:11	TRB
Pesticides (GC) by Method 8081	WG1165833	1	09/15/18 13:28	09/16/18 18:26	VKS

HS-4S@5'S.O.-0.5-1' L1025157-13 Solid

Collected by: Chris Vertin | Collected date/time: 09/08/18 13:16 | Received date/time: 09/12/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166415	1	09/15/18 09:52	09/15/18 10:00	KS
Metals (ICP) by Method 6010B	WG1165636	1	09/13/18 12:33	09/14/18 15:13	TRB
Pesticides (GC) by Method 8081	WG1165833	1	09/15/18 13:28	09/16/18 18:40	VKS

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Project Manager

Metals (ICP) by Method 6010B

Client ID	Lab Sample ID	Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
			mg/kg		mg/kg	mg/kg		date / time	
BP-4@2-2.5'	L1025157-01	Arsenic	3.01		0.649	2.82	1	09/14/2018 14:36	WG1165636
BP-4@5'S.O.-1-1.5'	L1025157-02	Arsenic	2.83		0.627	2.72	1	09/14/2018 14:38	WG1165636
BP-13@2-2.5'	L1025157-03	Arsenic	3.40		0.572	2.49	1	09/14/2018 14:41	WG1165636
BP-13@5'S.O.-1-1.5'	L1025157-04	Arsenic	3.14		0.579	2.52	1	09/14/2018 14:44	WG1165636
SS-1@2-2.5'	L1025157-05	Arsenic	4.41		0.565	2.46	1	09/14/2018 14:46	WG1165636
SS-1N@5'S.O.-0.5-1'	L1025157-06	Arsenic	4.94		0.544	2.36	1	09/14/2018 14:49	WG1165636
SS-1E@5'S.O.-0.5-1'	L1025157-07	Arsenic	3.87		0.566	2.46	1	09/14/2018 14:52	WG1165636
SS-1S@5'S.O.-0.5-1'	L1025157-08	Arsenic	2.56		0.564	2.45	1	09/14/2018 14:54	WG1165636
SS-1W@5'S.O.-0.5-1'	L1025157-09	Arsenic	7.64		0.513	2.23	1	09/14/2018 15:03	WG1165636
HS-4@2-2.5'	L1025157-10	Cobalt	14.5		0.289	1.26	1	09/14/2018 15:05	WG1165636
HS-4N@5'S.O.-0.5-1'	L1025157-11	Cobalt	36.9		0.251	1.09	1	09/14/2018 15:08	WG1165636
HS-4W@5'S.O.-0.5-1'	L1025157-12	Cobalt	36.1		0.259	1.12	1	09/14/2018 15:11	WG1165636
HS-4S@5'S.O.-0.5-1'	L1025157-13	Cobalt	27.0		0.282	1.22	1	09/14/2018 15:13	WG1165636

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.8		1	09/17/2018 09:03	WG1166414

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.01		0.649	2.82	1	09/14/2018 14:36	WG1165636

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.4		1	09/17/2018 09:03	WG1166414

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.83		0.627	2.72	1	09/14/2018 14:38	WG1165636

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.4		1	09/17/2018 09:03	WG1166414

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.40		0.572	2.49	1	09/14/2018 14:41	WG1165636

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.4		1	09/17/2018 09:03	WG1166414

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.14		0.579	2.52	1	09/14/2018 14:44	WG1165636

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.4		1	09/15/2018 10:00	WG1166415

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.41		0.565	2.46	1	09/14/2018 14:46	WG1165636

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.6		1	09/15/2018 10:00	WG1166415

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.94		0.544	2.36	1	09/14/2018 14:49	WG1165636

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.3		1	09/15/2018 10:00	WG1166415

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.87		0.566	2.46	1	09/14/2018 14:52	WG1165636

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.6		1	09/15/2018 10:00	WG1166415

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.56		0.564	2.45	1	09/14/2018 14:54	WG1165636

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.6		1	09/15/2018 10:00	WG1166415

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	7.64		0.513	2.23	1	09/14/2018 15:03	WG1165636

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.5		1	09/15/2018 10:00	WG1166415

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	14.5		0.289	1.26	1	09/14/2018 15:05	WG1165636

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000293	0.0251	1	09/16/2018 17:56	WG1165833
Alpha BHC	U		0.000243	0.0251	1	09/16/2018 17:56	WG1165833
Beta BHC	U		0.000381	0.0251	1	09/16/2018 17:56	WG1165833
Delta BHC	U		0.000190	0.0251	1	09/16/2018 17:56	WG1165833
Gamma BHC	U		0.000308	0.0251	1	09/16/2018 17:56	WG1165833
4,4-DDD	U		0.000206	0.0251	1	09/16/2018 17:56	WG1165833
4,4-DDE	U		0.000207	0.0251	1	09/16/2018 17:56	WG1165833
4,4-DDT	U		0.000334	0.0251	1	09/16/2018 17:56	WG1165833
Dieldrin	U		0.000112	0.00251	1	09/16/2018 17:56	WG1165833
Endosulfan I	U		0.000269	0.0251	1	09/16/2018 17:56	WG1165833
Endosulfan II	U		0.000289	0.0251	1	09/16/2018 17:56	WG1165833
Endosulfan sulfate	U		0.000214	0.0251	1	09/16/2018 17:56	WG1165833
Endrin	U		0.000275	0.0251	1	09/16/2018 17:56	WG1165833
Endrin aldehyde	U		0.000304	0.0251	1	09/16/2018 17:56	WG1165833
Endrin ketone	U		0.000200	0.0251	1	09/16/2018 17:56	WG1165833
Heptachlor	U		0.000127	0.0251	1	09/16/2018 17:56	WG1165833
Heptachlor epoxide	U		0.000475	0.0251	1	09/16/2018 17:56	WG1165833
Hexachlorobenzene	U		0.000282	0.0251	1	09/16/2018 17:56	WG1165833
Methoxychlor	U		0.000333	0.0251	1	09/16/2018 17:56	WG1165833
Chlordane	U		0.0490	0.251	1	09/16/2018 17:56	WG1165833
Toxaphene	U		0.0453	0.503	1	09/16/2018 17:56	WG1165833
(S) Decachlorobiphenyl	*81.4*			*10.0-135*		*09/16/2018 17:56*	WG1165833
(S) Tetrachloro-m-xylene	*74.1*			*10.0-139*		*09/16/2018 17:56*	WG1165833

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6		1	09/15/2018 10:00	WG1166415

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	36.9		0.251	1.09	1	09/14/2018 15:08	WG1165636

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000254	0.0218	1	09/16/2018 18:11	WG1165833
Alpha BHC	U		0.000211	0.0218	1	09/16/2018 18:11	WG1165833
Beta BHC	U		0.000331	0.0218	1	09/16/2018 18:11	WG1165833
Delta BHC	U		0.000165	0.0218	1	09/16/2018 18:11	WG1165833
Gamma BHC	U		0.000268	0.0218	1	09/16/2018 18:11	WG1165833
4,4-DDD	U		0.000179	0.0218	1	09/16/2018 18:11	WG1165833
4,4-DDE	U		0.000180	0.0218	1	09/16/2018 18:11	WG1165833
4,4-DDT	U		0.000291	0.0218	1	09/16/2018 18:11	WG1165833
Dieldrin	U		0.0000972	0.00218	1	09/16/2018 18:11	WG1165833
Endosulfan I	U		0.000234	0.0218	1	09/16/2018 18:11	WG1165833
Endosulfan II	U		0.000251	0.0218	1	09/16/2018 18:11	WG1165833
Endosulfan sulfate	U		0.000186	0.0218	1	09/16/2018 18:11	WG1165833
Endrin	U		0.000239	0.0218	1	09/16/2018 18:11	WG1165833
Endrin aldehyde	U		0.000264	0.0218	1	09/16/2018 18:11	WG1165833
Endrin ketone	U		0.000174	0.0218	1	09/16/2018 18:11	WG1165833
Heptachlor	U		0.000110	0.0218	1	09/16/2018 18:11	WG1165833
Heptachlor epoxide	U		0.000413	0.0218	1	09/16/2018 18:11	WG1165833
Hexachlorobenzene	U		0.000245	0.0218	1	09/16/2018 18:11	WG1165833
Methoxychlor	U		0.000289	0.0218	1	09/16/2018 18:11	WG1165833
Chlordane	U		0.0426	0.218	1	09/16/2018 18:11	WG1165833
Toxaphene	U		0.0393	0.437	1	09/16/2018 18:11	WG1165833
(S) Decachlorobiphenyl	*82.2*			*10.0-135*		*09/16/2018 18:11*	WG1165833
(S) Tetrachloro-m-xylene	*74.1*			*10.0-139*		*09/16/2018 18:11*	WG1165833

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.9		1	09/15/2018 10:00	WG1166415

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	36.1		0.259	1.12	1	09/14/2018 15:11	WG1165636

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000262	0.0225	1	09/16/2018 18:26	WG1165833
Alpha BHC	U		0.000217	0.0225	1	09/16/2018 18:26	WG1165833
Beta BHC	U		0.000341	0.0225	1	09/16/2018 18:26	WG1165833
Delta BHC	U		0.000170	0.0225	1	09/16/2018 18:26	WG1165833
Gamma BHC	U		0.000275	0.0225	1	09/16/2018 18:26	WG1165833
4,4-DDD	U		0.000184	0.0225	1	09/16/2018 18:26	WG1165833
4,4-DDE	U		0.000186	0.0225	1	09/16/2018 18:26	WG1165833
4,4-DDT	U		0.000299	0.0225	1	09/16/2018 18:26	WG1165833
Dieldrin	U		0.000100	0.00225	1	09/16/2018 18:26	WG1165833
Endosulfan I	U		0.000241	0.0225	1	09/16/2018 18:26	WG1165833
Endosulfan II	U		0.000259	0.0225	1	09/16/2018 18:26	WG1165833
Endosulfan sulfate	U		0.000191	0.0225	1	09/16/2018 18:26	WG1165833
Endrin	U		0.000246	0.0225	1	09/16/2018 18:26	WG1165833
Endrin aldehyde	U		0.000272	0.0225	1	09/16/2018 18:26	WG1165833
Endrin ketone	U		0.000179	0.0225	1	09/16/2018 18:26	WG1165833
Heptachlor	U		0.000114	0.0225	1	09/16/2018 18:26	WG1165833
Heptachlor epoxide	U		0.000425	0.0225	1	09/16/2018 18:26	WG1165833
Hexachlorobenzene	U		0.000252	0.0225	1	09/16/2018 18:26	WG1165833
Methoxychlor	U		0.000298	0.0225	1	09/16/2018 18:26	WG1165833
Chlordane	U		0.0438	0.225	1	09/16/2018 18:26	WG1165833
Toxaphene	U		0.0405	0.450	1	09/16/2018 18:26	WG1165833
(S) Decachlorobiphenyl	*82.4*			*10.0-135*		*09/16/2018 18:26*	WG1165833
(S) Tetrachloro-m-xylene	*72.8*			*10.0-139*		*09/16/2018 18:26*	WG1165833

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.7		1	09/15/2018 10:00	WG1166415

Metals (ICP) by Method 6010B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cobalt	27.0		0.282	1.22	1	09/14/2018 15:13	WG1165636

Pesticides (GC) by Method 8081

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.000285	0.0245	1	09/16/2018 18:40	WG1165833
Alpha BHC	U		0.000236	0.0245	1	09/16/2018 18:40	WG1165833
Beta BHC	U		0.000371	0.0245	1	09/16/2018 18:40	WG1165833
Delta BHC	U		0.000185	0.0245	1	09/16/2018 18:40	WG1165833
Gamma BHC	U		0.000300	0.0245	1	09/16/2018 18:40	WG1165833
4,4-DDD	U		0.000201	0.0245	1	09/16/2018 18:40	WG1165833
4,4-DDE	U		0.000202	0.0245	1	09/16/2018 18:40	WG1165833
4,4-DDT	U		0.000326	0.0245	1	09/16/2018 18:40	WG1165833
Dieldrin	U		0.000109	0.00245	1	09/16/2018 18:40	WG1165833
Endosulfan I	U		0.000262	0.0245	1	09/16/2018 18:40	WG1165833
Endosulfan II	U		0.000282	0.0245	1	09/16/2018 18:40	WG1165833
Endosulfan sulfate	U		0.000208	0.0245	1	09/16/2018 18:40	WG1165833
Endrin	U		0.000268	0.0245	1	09/16/2018 18:40	WG1165833
Endrin aldehyde	U		0.000296	0.0245	1	09/16/2018 18:40	WG1165833
Endrin ketone	U		0.000195	0.0245	1	09/16/2018 18:40	WG1165833
Heptachlor	U		0.000124	0.0245	1	09/16/2018 18:40	WG1165833
Heptachlor epoxide	U		0.000463	0.0245	1	09/16/2018 18:40	WG1165833
Hexachlorobenzene	U		0.000274	0.0245	1	09/16/2018 18:40	WG1165833
Methoxychlor	U		0.000324	0.0245	1	09/16/2018 18:40	WG1165833
Chlordane	U		0.0477	0.245	1	09/16/2018 18:40	WG1165833
Toxaphene	U		0.0441	0.490	1	09/16/2018 18:40	WG1165833
(S) Decachlorobiphenyl	*67.1*			*10.0-135*		*09/16/2018 18:40*	WG1165833
(S) Tetrachloro-m-xylene	*67.1*			*10.0-139*		*09/16/2018 18:40*	WG1165833

Method Blank (MB)

(MB) R3342640-1 09/17/18 09:03

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1025149-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1025149-06 09/17/18 09:03 • (DUP) R3342640-3 09/17/18 09:03

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	98.8	98.7	1	0.112		10

Laboratory Control Sample (LCS)

(LCS) R3342640-2 09/17/18 09:03

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3342468-1 09/15/18 10:00

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1025157-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1025157-06 09/15/18 10:00 • (DUP) R3342468-3 09/15/18 10:00

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.6	83.5	1	1.37		10

Laboratory Control Sample (LCS)

(LCS) R3342468-2 09/15/18 10:00

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3342137-1 09/14/18 13:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.460	2.00
Cobalt	U		0.230	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3342137-2 09/14/18 14:01 • (LCSD) R3342137-3 09/14/18 14:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	100	97.7	100	97.7	80.0-120			2.56	20
Cobalt	100	104	100	104	100	80.0-120			3.65	20

L1025011-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1025011-01 09/14/18 14:06 • (MS) R3342137-6 09/14/18 14:14 • (MSD) R3342137-7 09/14/18 14:16

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	118	26.7	134	138	90.6	94.4	1	75.0-125			3.27	20
Cobalt	118	14.2	132	139	99.6	106	1	75.0-125			5.77	20

Method Blank (MB)

(MB) R3343223-3 09/16/18 17:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.000233	0.0200
Alpha BHC	U		0.000193	0.0200
Beta BHC	U		0.000303	0.0200
Delta BHC	U		0.000151	0.0200
Gamma BHC	U		0.000245	0.0200
4,4-DDD	U		0.000164	0.0200
4,4-DDE	U		0.000165	0.0200
4,4-DDT	U		0.000266	0.0200
Dieldrin	U		0.0000890	0.00200
Endosulfan I	U		0.000214	0.0200
Endosulfan II	U		0.000230	0.0200
Endosulfan sulfate	U		0.000170	0.0200
Endrin	U		0.000219	0.0200
Endrin aldehyde	U		0.000242	0.0200
Endrin ketone	U		0.000159	0.0200
Heptachlor	U		0.000101	0.0200
Heptachlor epoxide	U		0.000378	0.0200
Hexachlorobenzene	U		0.000224	0.0200
Methoxychlor	U		0.000265	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*89.3*			*10.0-135*
(S) Tetrachloro-m-xylene	*77.6*			*10.0-139*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3343223-1 09/16/18 17:12 • (LCSD) R3343223-2 09/16/18 17:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0666	0.0597	0.0626	89.6	94.0	34.0-136			4.74	38
Alpha BHC	0.0666	0.0614	0.0642	92.2	96.4	34.0-139			4.46	38
Beta BHC	0.0666	0.0607	0.0634	91.1	95.2	34.0-133			4.35	37
Delta BHC	0.0666	0.0625	0.0656	93.8	98.5	34.0-135			4.84	38
Gamma BHC	0.0666	0.0612	0.0641	91.9	96.2	34.0-136			4.63	38
4,4-DDD	0.0666	0.0641	0.0680	96.2	102	33.0-141			5.90	39
4,4-DDE	0.0666	0.0589	0.0620	88.4	93.1	34.0-134			5.13	38
4,4-DDT	0.0666	0.0680	0.0732	102	110	30.0-143			7.37	40
Dieldrin	0.0666	0.0628	0.0659	94.3	98.9	35.0-137			4.82	37
Endosulfan I	0.0666	0.0597	0.0625	89.6	93.8	34.0-134			4.58	37

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3343223-1 09/16/18 17:12 • (LCSD) R3343223-2 09/16/18 17:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0666	0.0608	0.0643	91.3	96.5	35.0-132			5.60	38
Endosulfan sulfate	0.0666	0.0612	0.0661	91.9	99.2	35.0-132			7.70	37
Endrin	0.0666	0.0626	0.0663	94.0	99.5	34.0-137			5.74	37
Endrin aldehyde	0.0666	0.0597	0.0638	89.6	95.8	23.0-121			6.64	39
Endrin ketone	0.0666	0.0676	0.0716	102	108	35.0-144			5.75	37
Heptachlor	0.0666	0.0612	0.0645	91.9	96.8	36.0-141			5.25	37
Heptachlor epoxide	0.0666	0.0604	0.0634	90.7	95.2	36.0-134			4.85	37
Hexachlorobenzene	0.0666	0.0575	0.0599	86.3	89.9	33.0-129			4.09	37
Methoxychlor	0.0666	0.0678	0.0730	102	110	28.0-150			7.39	38
(S) Decachlorobiphenyl				*85.4*	*90.1*	*10.0-135*				
(S) Tetrachloro-m-xylene				*75.7*	*77.5*	*10.0-139*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

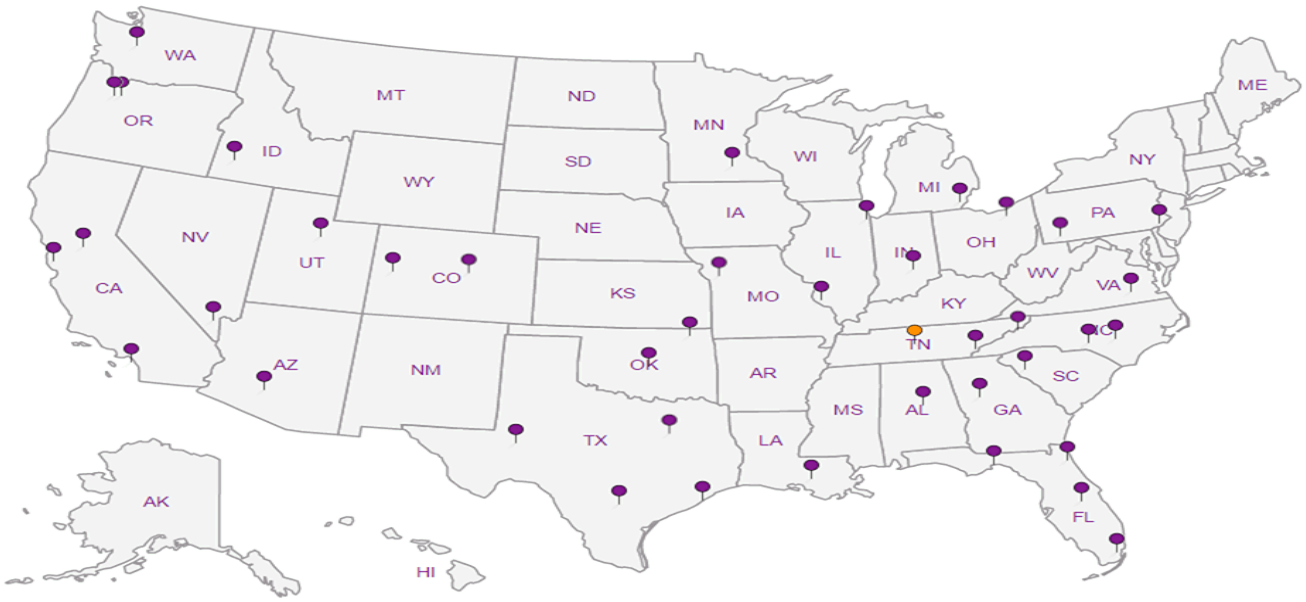
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Chain of Custody Page 1 of 5

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1025157

E048

Acctnum: MCCONDCA

Template:

Prelogin:

TSR:

PB:

Shipped Via:

McCloskey Consultants Inc

Billing Information:

Report to: Tom McCloskey / Chris Vertin

Email To:

Project Description: Taft Community School

City/State Collected: Redwood City, CA

Phone: 925.786.2667
Fax:

Client Project #

Lab Project #

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Arsenic	Remarks	Sample # (lab only)
BP-4@2-2½'	Grab	SS	2-2½	9.8.18	13:28	1	X		-01
BP-4@5'S.O.-1-1½'			1-1½'		13:33		X		02
BP-4@5'S.O. 2-2½			2-2½'		13:30			Hold	
BP-4@10'S.O.-1-1½'			1-1½'		14:04			Hold	
BP-4@10'S.O.-2-2½'			2-2½		13:59			Hold	
BP-13@2-2½'			2-2½'		13:39		X		03
BP-13@5'S.O.-1-1½'			1-1½'		13:50		X		04
BP-13@5'S.O.-2-2½'			2-2½		13:55			Hold	
BP-13@10'S.O.-½-1'			½-1'		12:33			Hold	
BP-13@10'S.O.-2-2½			2-2½'		12:28			Hold	

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other ____

Remarks: Please Hold Samples for 4 weeks

pH ____ Temp ____

Flow ____ Other ____

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Samples returned via:
__ UPS __ FedEx __ Courier ____

Tracking # 4430 3421 7106

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	9/11/18	0775	PACE
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
PACE	9/11/18	1630	FedEx
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			SCI

Temp: 0.8 °C Bottles Received: 40

Date: 9/12/18 Time: 0:45

If preservation required by Login: Date/Time

09-0039

Condition: NCF / OK

McCloskey Consultants Inc

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 5

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
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Phone: 800-767-5859
Fax: 615-758-5859

Report to: Tom McCloskey / Chris Vertin

Email To:

Project Description: Taft Community School

City/State Collected: Redwood City CA

Phone: 925.786.2667
Fax:

Client Project #

Lab Project #

L# L1025157

Table #

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Acctnum:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Arsenic	Remarks	Sample # (lab only)
SS-1 @ 2-2½'	Grab	SS	2-2½'	9.8.18	14:11	1	X		05
SS-1N @ 5' S.O. - ½-1'			½-1'		14:41		X		06
SS-1N @ 5' S.O. - 2-2½'			2-2½'		14:36			Hold	
SS-1N @ 10' S.O. - 1-1½'			1-1½'		14:44			Hold	
SS-1N @ 10' S.O. - 2-2½'			2-2½'		14:38			Hold	
SS-1E @ 5' S.O. - ½-1'			½-1'		14:53		X		07
SS-1E @ 5' S.O. - 2-2½'			2-2½'		14:47		~~X~~ CMV	Hold	CMV
SS-1E @ 10' S.O. -			½-1'		15:00			Hold	
SS-1E @ 10' S.O. - 2-2½'			2-2½'		14:50			Hold	

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ____ Temp ____

Flow ____ Other ____

Samples returned via:
__ UPS __ FedEx __ Courier __ ____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	9/11/18	0725	PACE	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.8°C Bottles Received: 40
PACE	9/11/18	1630	FedEx	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/12/18 Time: 8145
			821	

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

McCloskey Consultants Inc

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 3 of 5

Pace Analytical
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Tom McCloskey / Chris Vertin

Email To:

Project Description: Taft Community School

City/State Collected: Redwood City, CA

Phone: 925.786.2667
Fax:

Client Project #

Lab Project #

L# L1025157

Table #

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Acctnum:
Template:
Prelogin:
TSR:
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Arsenic	Remarks	Sample # (lab only)
SS-1S @5' S.O. -½-1'	Grab	SS	½-1'	9.8.18	14:19	1	X		08
SS-1S @5' S.O. -2-2½'			2-2½'		14:14			Hold	
SS-1S @10' S.O. -½-1'			½-1'		14:23			Hold	
SS-1S @10' S.O. -2-2½'			2-2½		14:16			Hold	
SS-1W @ 5' S.O. -½-1'			½-1'		15:12		X		09
SS-1W @ 5' S.O. -2-2½'			2-2½'		15:05			Hold	
SS-1W @ 10' S.O. -½-1'			½-1'		15:15			Hold	
SS-1W @ 10' S.O. -2-2½'			2-2½'		15:07			Hold	

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N

	Date:	Time:		
Relinquished by: (Signature)	9/11/18	0725	Received by: (Signature) PACE	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature) PACE	9/11/18	1630	Received by: (Signature) FedEx	Temp: 0.5°C Bottles Received: 40
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) 801	Date: 9/12/18 Time: 8:45

If preservation required by Login: Date/Time

Hold:

Conditions NCF / OK

McCloskey Consultants Inc

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 4 of 5

Pace Analytical
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1025157

Table #

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Report to: Tom McCloskey / Chris Vertin

Email To:

Project Description: Taft Community School

City/State Collected: Redwood City CA

Phone: 925.786.2667
Fax:

Client Project #

Lab Project #

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPs (8081)	Cobalt	Remarks	Sample # (lab only)
HS-4 @ 2-2½'	Grab	SS	2-2½'	9.8.18	12:24	1	X	X		-10
HS-4N @ 5' S.O. - ½-1'			½-1'		12:43		X	X		11
HS-4N @ 5' S.O. - 2-2½'			2-2½'		12:38				Hold	
HS-4N @ 10' S.O. - ½-1'			½-1		12:45				Hold	
HS-4N @ 10' SO. - 2-2½			2-2½		12:40				Hold	
HS-4W @ 5' S.O. - ½-1'			½-1'		13:00		X	X		12
HS-4W @ 5' S.O. - 2-2½			2-2½'		12:54				Hold	
HS-4W @ 10' S.O. - ½-1'			½-1'		13:04				Hold	
HS-4W @ 10' S.O - 2-2½			2-2½'		12:56				Hold	

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ____ Temp ____

Flow ____ Other ____

Samples returned via:
__ UPS __ FedEx __ Courier __ ____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR
	9/11/18	0725	PACE	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.8°C Bottles Received: 40
PACE	9/11/18	1630	FedEx	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/12/18 Time: 8:45
			SCA	

If preservation required by Login: Date/Time

Hold:

Condition: (NCF) / OK

McCloskey Consultants Inc

Billing Information:

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 5 of 5

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: Tom McCloskey / Chris Vertin

Email To:

Project Description: Taft Community School

City/State Collected: Redwood City CA

Phone: 925.786.2667
Fax:

Client Project #

Lab Project # L# L1025157

Table #

Collected by (print): Chris Vertin

Site/Facility ID #

P.O. #

Acctnum:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	OCPs (8081)	Cobalt								Remarks	Sample # (lab only)
HS-4S @5'S.O.-½-1'	Grab	SS	½-1'	9.8.16	13:16	1	X	X									-13
HS-4S @5'S.O.-2-2½	"	"	2-2½	"	13:08	"										Hold	
HS-4S @10'S.O.-1-1½'	"	"	1-1½'	"	13:18	"										Hold	
HS-4S @10'S.O.-2-2½'	"	"	2-2½	"	13:10	"										Hold	

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH ____ Temp ____

Flow ____ Other ____

Samples returned via:
__ UPS __ FedEx __ Courier __

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	9/11/16	0725	PACE	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
PACE	9/11/18	1630	FedEx	0.8 40
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
			SCI	9/12/18 8:45

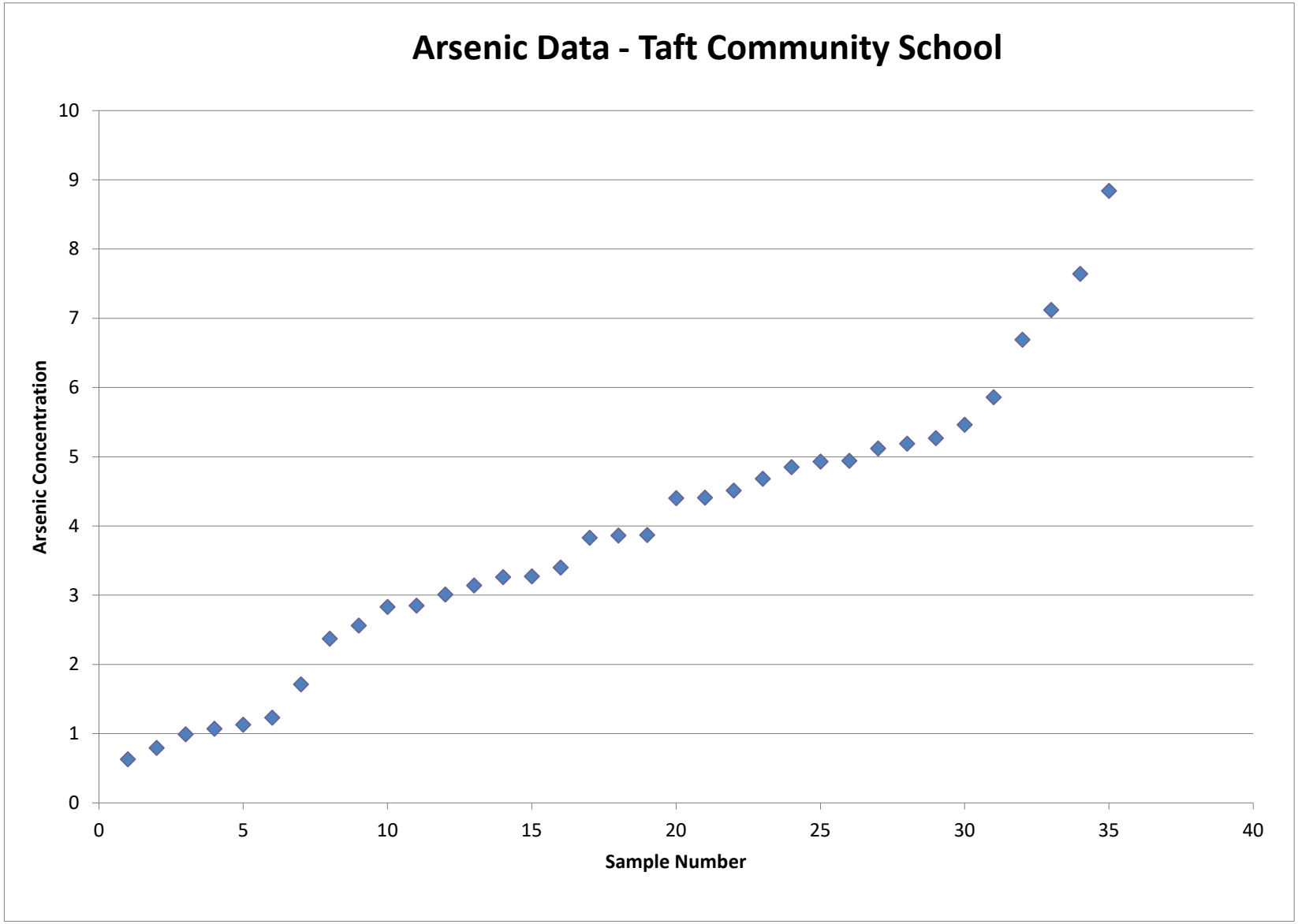
If preservation required by Login: Date/Time

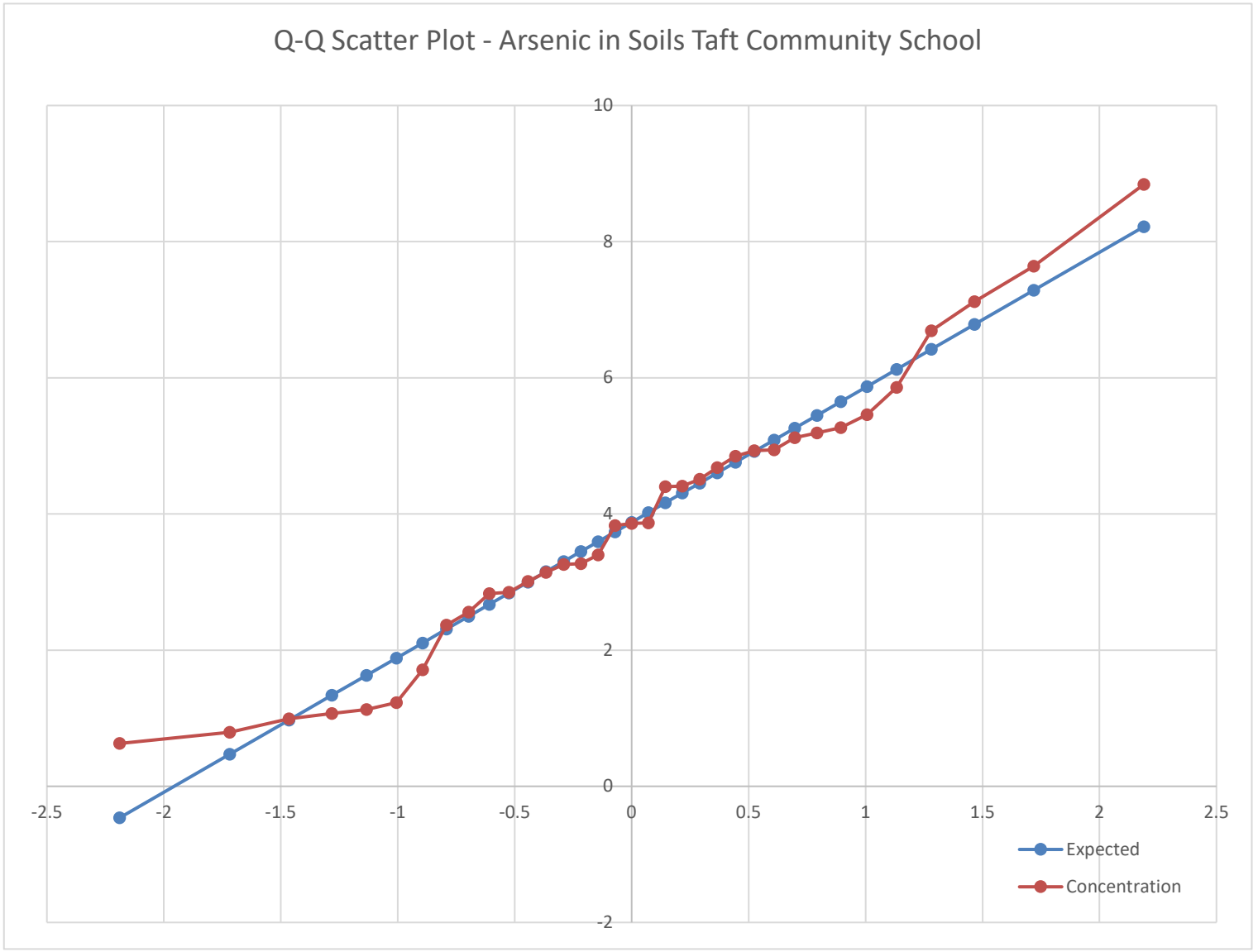
Hold:

Condition: NCF / OK

Appendix B

Background Arsenic Plots


Arsenic Data - Taft Community School
Arsenic Concentration
Sample Number
0
1
2
3
4
5
6
7
8
9
10
0
5
10
15
20
25
30
35
40


Q-Q Scatter Plot - Arsenic in Soils Taft Community School
10
8
6
4
2
0
-2
-2.5
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
2.5
Expected
Concentration

Appendix C

Health and Safety Plan

Project Name: Taft Community School **Project Number:** _____ **Date:** 12/20/18

Anyone who enters a hazardous waste site must recognize and understand the potential hazards to health and safety associated with the cleanup/investigation of that site. Personnel actively involved in the field project must he thoroughly familiar with program and procedures contained in this SSP. This SSP must be available on-site when performing fieldwork. Periodic inspections may be made to evaluate if proper safety measures are being followed. In addition, a copy of the SSP must be kept in the job file.

Site Description

Client Contact: John Baker, Superintendent
Telephone Number/Email: (650) 482-2230 jbaker@rcsdk8.net

Site Location: **Taft Community School**
903 10th Avenue
Redwood City, California 94062

Site Type (Check if Applicable): ☐ Residential ☐ Commercial ☐ Industrial ☐ Undeveloped ☑ Other School

Notable Features: The Site is an active school.

Site Background: The Site consists of an eastern portion of the larger school parcel and will be redeveloped. Remedial activities will take place at seven locations around the Site

Organizational Structure

Project Manager: Tom McCloskey Site Safety Officer: Chris Vertin

Field Personnel: Chris Vertin

Regulatory Agency Contact: _____ Phone Number: _____

All of the above personnel have had 40-hour OSHA training and the Project Leader has had 8-hour supervisory training.

Work Plan* (check if applicable)

Objective of the proposed work: Remedial Activities and Confirmation Sampling

The following would be performed during this project:

- ☑ Excavation / Trenching
- ☐ Drilling / Soil Boring
- ☐ Monitoring Well Installation
- ☐ Well Gauging
- ☐ Well Development
- ☐ Groundwater Sampling
- ☑ Soil Sampling
- ☐ Soil Vapor Sampling
- ☐ Remediation System Installation
- ☐ Other(s) _____

Chemical Hazards (check if applicable)

Chemical hazards possibly to be on-site in soils and/or groundwater are as follows:

		Symptoms of Over-Exposure
☐	**Gasoline -**	Skin irritant, disturbance of eyes. Deep burning in the throat and respiratory tract and bronchopneumonia. Repeated or chronic dermal contact may result in drying of the skin, lesions, and other dermalogic conditions.
☐	**Diesel -**	Irritation to *skin.* Prolonged breathing at high vapor concentrations can effect central nervous system.
☐	**Benzene -**	Irritation of the eyes, nose, and respiratory system. Headache, giddiness, fatigue, anorexia, staggered gait, and dermatitis.
☐	**Ethylbenzene -**	Irritation of eyes and mucous membranes, headache, dermatitis, narcosis, and coma.
☐	**Toluene -**	Irritation of eyes and mucous membranes, headache, dermatitis, narcosis, and coma.
☐	**Xylenes -**	Dizziness, excitement, drowsiness, staggering gait, irritation of eyes, nose, and throat, nausea, vomiting, and dermatitis.
☑	**Arsenic -**	Irritation of the skin, possible dermatitis, respiratory distress, diarrhea, kidney damage, muscular tremors, seizure; possible gastrointestinal tract and reproductive effects, and possible liver damage.
☐	**Lead -**	Weakness, insomnia, constipation, abdominal pain, colic, anemia, paralysis of the wrists and ankles, encephalopathy, kidney disease, irritation of the eyes, and hypotension.
☐	**Asbestos - NOA**	Difficulty breathing, interstitial fibrosis, restricted pulmonary effects, finger clubbing, and irritation of the eyes.
☑	**OCPs and Chlordane -**	Blurred vision, conjunctivitis, ataxia, delirium, coughing, abdominal pains, nausea, vomiting, diarrhea, irritability, and convolutions.
☐	**Dieldrin -**	Headache, dizziness, nausea, vomiting, sweating, myoclonic limb jerks, clonic and tonic convulsions, and coma.
☐	**Total DDT -**	Irritation of the eyes and skin, paresthesia of the tongue, lips, and face, dizziness, confusion, headache, fatigue, convulsions, and paresis of the hands
☐	**DCA -**	Headaches, loss of appetite, nausea, vomiting, intense jaw pain, and cranial nerve palsy.
☐	**DCE -**	Irritation of eyes and respiratory system, and depression of the central nervous system.
☐	**TCA -**	Irritation of the eyes, skin, nose, throat, and respiratory system, coughing, dyspnea, delayed pulmonary edema, eye and skin burns, dermatitis, salivation, vomiting, and diarrhea.
☐	**TCE -**	Irritation of the eyes and skin, headaches, vertigo, giddiness, sleepiness, nausea, vomiting, dermatitis, cardiac arrhythmia, paresthesia, and liver injury.

☐	**H_2S**	Irritation of the eyes and respiratory system, apnea, coma, convolutions, conjunctivitis, eye pain, lacrimation, photophobia, corneal vesiculation, dizziness, headaches, fatigue, irritability, insomnia, and gastrointestinal disturbance.
☐	**PCBs**	The most commonly observed health effects in people exposed to extremely high levels of PCBs are skin conditions, such as chloracne and rashes. Common symptoms included dermal and ocular lesions, irregular menstrual cycles and lowered immune responses. Other symptoms included fatigue, headaches, coughs, and unusual skin sores.
☐	**Dioxins**	Short-term exposure of humans to high levels of dioxins may result in skin lesions, such as chloracne and patchy darkening of the skin, and altered liver function. Long-term exposure is linked to impairment of the immune system, the developing nervous system, the endocrine system and reproductive functions.
☐	**PAHs**	Eye irritation, nausea, vomiting, diarrhea and confusion. Other symptoms to the skin include irritation and inflammation.
☐	**Radon**	Severe symptoms of long-term exposure to elevated levels may include persistent cough, coughing up blood, wheezing, shortness of breath, hoarseness, chest pain (especially when you laugh), frequent infections such as bronchitis and pneumonia.

Exposure to chemicals should be avoided through proper personal hygiene practices. Although some chemicals can exhibit identifiable acute health effects these exposures are unlikely. Unless the chemical exposure is excessive, it is unlikely that the exposure will be identifiable or exhibit the above symptoms of over-exposure. If you think you have been exposed to a chemical notify your supervisor immediately.

If any of the above symptoms occur, please leave the site for a safe location immediately. First aid should also he given immediately and the Project Manager and Site Safety Officer should be contacted. If needed, emergency procedures should he followed.

Non-Chemical Hazards (check if applicable)

Non-chemical hazards known or suspected to be on-site are as follows:

☑	**Heavy Equipment**	Heavy equipment should he in good working order and operated by an experienced and licensed person in accordance with recognized industry standards. Keep safe distance from heavy machinery so that you would not be in the path of a moving part if it were to swing suddenly. Always be aware of the movements of machinery around you. Approach vehicles from the driver's side. Make sure the vehicle operator sees you. Make eye contact. Personnel working in the vicinity of construction equipment shall wear orange safety vests for increased visibility, hard hat, and steel-toed boots at a minimum. Vehicles should be equipped with a flag, beacon and/or hazard flashers should be activated per the IIPP when working around heavy equipment.
☑	**Slip/Fall Hazards -**	Wet surfaces, inclines, or other obstacles that make movement on-site difficult; good housekeeping shall be practiced and shoes with traction shall be worn.
☑	**Noise -**	Excessive noise can make communication difficult or impossible; workers will be required to wear earplugs for all operations involving the use of power or pneumatic equipment that generates loud noise levels.

☑ **Heat/Cold Stress -** Physical work in warm weather and/or the use of personal protective equipment may induce heat issues symptoms including cramps, discomfort, and drowsiness, resulting in impaired function; can lead to heat stroke and death. Cool drinking water or other electrolyte replacing liquids shall be available on-site at all times. Work breaks shall be given as necessary, based on temperature and monitoring of workers.

☑ **Vehicular Traffic -** If the work area is in or near traffic areas where vehicular dangers are present, on-sire workers shall wear orange safety vests or other suitable garments marked with or made of reflectorized or high-visibility material. The work area should he clearly marked using signs, barricades, temporary fencing, safety cones, and/or caution tape. Flaggers are to be used to direct traffic if needed.

☑ **Excavation -** Excavation areas present a danger of falling and cave-in. For excavations of less than 5 feet in depth, follow general excavation safety protocols. Never leave open excavations unmarked. If possible, avoid entering any excavation. If entry is necessary and the excavation is greater than 5 feet in depth (even if it is shored), an OSHA excavation permit must he obtained and a separate excavation safety plan shall be prepared

☑ **Underground Utilities -** Subsurface utilities are within the work area and may be encountered during drilling or any subsurface exploration. Utility companies or owners must he contacted and asked to determine the location of the underground utility before excavation. While the excavation is open, underground installations must be protected, supported, or removed to protect employees. When utility companies cannot respond to a request to locate underground utility installations, or cannot establish the exact location of the installations, work may proceed with caution, only upon approval by the Project Manager and Site Safety Officer. Use of detection equipment or other methods of locating utility installations may be additionally required. In an area with suspected underground utilities, all boring locations must he hand probed to a minimum depth of 5 feet.

Please indicate the following were performed prior to work:

☐ **Underground Service Alert (USA)**

☐ **Private Utility Locator**

Please indicate any concerns discussed with wither USA or the private utility locator:

☐ No Concerns Identified

☐ Concerns (Please Describe Below)

_____

_____

_____

☐ **Overhead Lines -** Power and electrical lines are present within the work area. Extreme caution should be used when overhead electrical power or other lines are present. Use of equipment directly under or near lines should be avoided. If possible, the utility company or owner should be contacted to temporary turn off line power or reroute line the path during the course of work in that location.

☐ **Lifting Hazards -** Proper lifting technique should be used by bending at the knees and using the legs for strength. Item being lifted should be held close to the body and back-twisting motions should be avoided.

☐	**55-Gallon Drums & Containers -**	Caution should be used when handling drums and other heavy containers. During movement, the integrity of the drums may be compromised. Drums or containers on-site may be cracked, dented, or altered such that lids are not securely attached. If needed, contents should be secured in another drum, or drums should be placed in drum packers for further protection. Always use the proper equipment, designed for the specific application, when handling and moving heavy objects.
☐	**High Crime Area -**	Any area in which one feels threatened or is known to be a high crime area. Always be aware of your surroundings and never leave equipment unattended.
☐	**Hot Surface -**	Surfaces on-site will be at extreme temperature conditions (i.e. asphalt). Caution should be used around hot surfaces on-site, and steel-toed hoots should not be worn when hot surfaces are present. All hot surface hazards should be marked and taped-off to guard against accidental entry.
☐	**Low Lighting Conditions -**	Time or location may introduce inadequately lit work areas. On-site work should be concluded before dark. If work is anticipated to continue after dark, a light tower should be used in appropriate areas, as directed by the Project Manager and Site Safety Officer.
☑	**Poisonous / Dangerous Animals & Insects**	Including but not limited to snakes, wasps, dogs, cattle, etc. Use caution on-site when dangerous animals and insects are suspected to be present. Avoid contact when possible and if the situation becomes threatening, leave the site immediately. If allergic to insect stings, always carry an anaphylactic shock kit.
☐	**Confined Space -**	Any space that limits or constricts entry or exit; is not designed for continuous employee occupancy; has unfavorable natural ventilation. Examples of possible confined spaces include tanks, vessels, excavations, silos, storage bins, etc. For all work in confined spaces, a separate confined space entry program and permit must be established.
☐	**Other -(Specify) _____**	

Emergency Notification

Local Police, 911 or if NA:	(650) 780-7100 – Redwood City Police Department, Non-Emergency Calls
State Police, 911 or if NA:	
Fire, 911 or if NA :	(650) 780-7400 – Redwood City Fire Department
Ambulance, 911 or if NA:	

Medical (Attach Map--Mandatory)

Nearest Hospital: Kaiser Permanente Redwood City Medical Center,1100 Veterans Blvd., Redwood City, CA 94062

Hospital Telephone Number: (650) 299-2000

Directions: **See Attached Map** **Figure A-1**

Local Regulatory Agencies

Central Valley Regional Water Quality Control Board (559) 445-5116	Department of Toxic Substances Control (800) 728-9642	San Mateo County Environmental Health Division (650) 372-6200
		Other:

Communications

☐ Two-Ways Radios ☑ Cellular Phone ☑ Verbal

Personal Protective Equipment (PPE)

Appropriate on-site personnel have had the 40-hour OSHA class in Hazardous Waste Operations / Emergency Response.

Level of Protective Equipment ☐ A ☐ B ☐ C ☑ D ☑ See PPE Below

The following PPE is required to be available on-site and is to be used on an as needed basis:

☐ Hard Hat
☑ Safety Eye Wear (Type) _____
☑ Safety Boots
☐ Respirator (Type) _____
☑ Orange Vest
Filter (Type) _____
☑ Hearing Protection
☑ Gloves (Type) Nitrile
☐ Tyvex Coverall
☐ Other _____

Monitoring Equipment On-Site

The following monitoring equipment is to be available on-site and is to be used on an as needed basis:

☐ Organic Vapor Meter ☐ Draeger Tube _____
☐ Oxygen Meter ☐ Passive Dosimeter

☐ Combustible Gas Meter ☐ Air Sampling Pump

☐ H_2S Meter ☐ Filter Media _____

All field equipment shall be properly calibrated and functioning normally. If the equipment calibration date is unknown, the equipment should be taken out of service until calibrated to manufacturers specifications.

Site Control Procedures

All unauthorized persons shall be kept a safe distance form the work area. The work area shall be denoted with fencing, barricades, cones, and/or barrier tape.

Decontamination

Standard procedures, unless notified otherwise by the Project Manager and/or Site Safety Officer.

Personnel: Wash with soap and water.

Equipment: All sampling equipment is to be cleaned with a steam cleaner or a liquinox solution and distilled water prior to use at each sampling location.

Standard Safe Work Practices

1. Eating, drinking, chewing gum or tobacco, and smoking are prohibited in the contaminated or potentially contaminated area where the possibility for the transfer of contaminants exists.

2. Avoid contact with potentially contaminated substances. Do not walk through puddles, pools, mud, etc. Avoid, whenever possible, kneeling on the ground and leaning or sitting on equipment or the ground. Do not place monitoring equipment on potential contaminated surfaces (i.e., ground, etc.).

3. All field crew members should make use of their senses to alert them to potentially dangerous situations in which they should not become involved (i.e., the presence of strong, irritating, or nauseating odors).

4. Prevent spillage to the extent possible. In the event that a spill occurs, contain liquid if possible.

5. Prevent splashing of the contaminated materials.

6. Field crew members shall be familiar with the physical characteristics of the site, including:

- Wind direction in relation to work area contaminant location;
- Accessibility of other workers, equipment, vehicles;
- Communications;
- Exclusion zone (areas of known or suspected contamination);
- Site access;
- Nearest water source;
- The location of the nearest telephone;
- The location of the nearest medical facility.

7. The number of personnel and equipment in the contaminated area should be minimized, but only to the extent consistent with workforce requirements for safe site operations.

8. Personal Protection Equipment must be used properly to their fullest extent.

9. For more information, please review (Injury and Illness Prevention Program).

Standard Site Safety Protocol

1. If the site is located in a neighborhood known for high crime (e.g., East Palo Alto, South-Central Los Angeles, the Tenderloin in San Francisco, etc.) discuss personal protection, such as hiring of security personnel, with your Project Manager.

2. Leave the site destination, including address and time expected to return with Project Manager. If the Project Manager is not in the office, leave the information with another person who has knowledge of the project.

3. Always take a radio or cellular phone along for quick communication. Keep the radio and/or cellular phone on your person. (It will not do you any good in the truck).

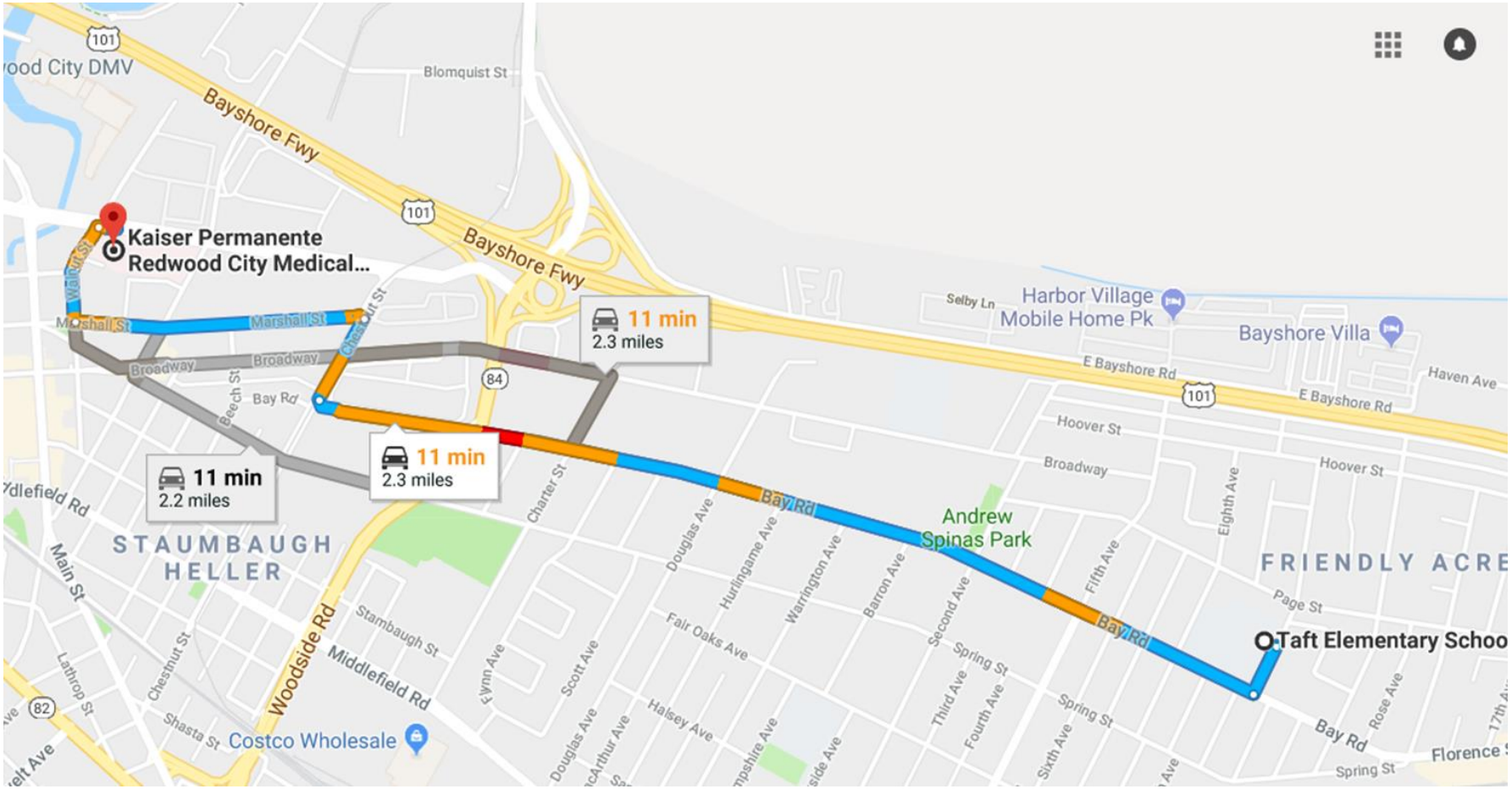
4. Be aware of your surroundings and trust your instincts. Leave if you feel threatened.

5. Do not stay on-site alone after dark unless the Project Manager is aware.

6. If the site visit will take place in or near a high crime neighborhood, fill the vehicle with gasoline prior to entering the area, take a map, drive with the doors locked, and avoid stopping in unfamiliar areas.

7. While performing the site visit, keep the key readily accessible, and the vehicle nearby. If possible, for quick access.

8. Do not carry large amounts of cash on your person and do not give any money to pan handlers as this encourages others to approach you.



Kaiser Permanente Hospital

Address: 1100 Veterans Blvd, Redwood City, CA 94063

Phone: (650) 299-2000

From the Site head Southwe**st** on **Tenth Ave** toward **Bay Rd;**

Turn **Right** onto **Bay Rd;**

Turn **Right** onto **Chestnut St;**

Turn **Left** onto **Marshall St**;

Turn **Right** onto **Walnut St;**

Turn **Right** onto **Veterans Blvd.**

Arrive at **170 Alameda de las Pulgas,** on Right Hand Side.

Estimate Distance: **2.3 Miles**

Map to Nearest Hospital

Taft Community School
903 10th Avenue
Redwood City, CA 94063

FIGURE D-1

McCloskey Consultants

Appendix D

Air Monitoring Protocol

APPENDIX D
AIR MONITORING PROTOCOL

Perimeter Dust Monitoring

The perimeter dust monitoring will be performed using battery-operated direct-read monitors. The monitor will continuously record data for later analysis. The perimeter dust monitoring will be monitored at one upwind location and two downwind locations. The dust readings will be recorded on an hourly basis during the first day of each new field activity type. The perimeter dust monitors will be set to sound an alarm at the Site action level of 10 micrograms per cubic meter.

Appendix E

DTSC Advisory on Import Fill Material

Information Advisory
Clean Imported Fill Material

October 2001

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

It is DTSC's mission to restore, protect and enhance the environment, to ensure public health, environmental quality and economic vitality, by regulating hazardous waste, conducting and overseeing cleanups, and developing and promoting pollution prevention.

State of California

California Environmental Protection Agency

Executive Summary

This fact sheet has been prepared to ensure that inappropriate fill material is not introduced onto sensitive land use properties under the oversight of the DTSC or applicable regulatory authorities. Sensitive land use properties include those that contain facilities such as hospitals, homes, day care centers, and schools. This document only focuses on human health concerns and ecological issues are not addressed. It identifies those types of land use activities that may be appropriate when determining whether a site may be used as a fill material source area. It also provides guidelines for the appropriate types of analyses that should be performed relative to the former land use, and for the number of samples that should be collected and analyzed based on the estimated volume of fill material that will need to be used. The information provided in this fact sheet is not regulatory in nature, rather is to be used as a guide, and in most situations the final decision as to the acceptability of fill material for a sensitive land use property is made on a case-by-case basis by the appropriate regulatory agency.

Introduction

The use of imported fill material has recently come under scrutiny because of the instances where contaminated soil has been brought onto an otherwise clean site. However, there are currently no established standards in the statutes or regulations that address environmental requirements for imported fill material. Therefore, the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) has prepared this fact sheet to identify procedures that can be used to minimize the possibility of introducing contaminated soil onto a site that requires imported fill material. Such sites include those that are undergoing site remediation, corrective action, and closure activities overseen by DTSC or the appropriate regulatory agency. These procedures may also apply to construction projects that will result in sensitive land uses. The intent of this fact sheet is to protect people who live on or otherwise use a sensitive land use property. By using this fact sheet as a guide, the reader will minimize the chance of introducing fill material that may result in potential risk to human health or the environment at some future time.

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.dtsc.ca.gov.

Overview

Both natural and manmade fill materials are used for a variety of purposes. Fill material properties are commonly controlled to meet the necessary site specific engineering specifications. Because most sites requiring fill material are located in or near urban areas, the fill materials are often obtained from construction projects that generate an excess of soil, and from demolition debris (asphalt, broken concrete, etc.). However, materials from those types of sites may or may not be appropriate, depending on the proposed use of the fill, and the quality of the assessment and/or mitigation measures, if necessary. Therefore, unless material from construction projects can be demonstrated to be free of contamination and/or appropriate for the proposed use, the use of that material as fill should be avoided.

Selecting Fill Material

In general, the fill source area should be located in nonindustrial areas, and not from sites undergoing an environmental cleanup. Nonindustrial sites include those that were previously undeveloped, or used solely for residential or agricultural purposes. If the source is from an agricultural area, care should be taken to insure that the fill does not include former agricultural waste process byproducts such as manure or other decomposed organic material. Undesirable sources of fill material include industrial and/or commercial sites where hazardous ma-

Potential Contaminants Based on the Fill Source Area

Fill Source:	Target Compounds
Land near to an existing freeway	Lead (EPA methods 6010B or 7471A), PAHs (EPA method 8310)
Land near a mining area or rock quarry	Heavy Metals (EPA methods 6010B and 7471A), asbestos (polarized light microscopy), pH
Agricultural land	Pesticides (Organochlorine Pesticides: EPA method 8081A or 8080A; Organophosphorus Pesticides: EPA method 8141A; Chlorinated Herbicides: EPA method 8151A), heavy metals (EPA methods 6010B and 7471A)
Residential/acceptable commercial land	VOCs (EPA method 8021 or 8260B, as appropriate and combined with collection by EPA Method 5035), semi-VOCs (EPA method 8270C), TPH (modified EPA method 8015), PCBs (EPA method 8082 or 8080A), heavy metals including lead (EPA methods 6010B and 7471A), asbestos (OSHA Method ID-191)

**The recommended analyses should be performed in accordance with USEPA SW-846 methods (1996). Other possible analyses include Hexavalent Chromium: EPA method 7199*

Recommended Fill Material Sampling Schedule

Area of Individual Borrow Area	Sampling Requirements
2 acres or less	Minimum of 4 samples
2 to 4 acres	Minimum of 1 sample every 1/2 acre
4 to 10 acres	Minimum of 8 samples
Greater than 10 acres	Minimum of 8 locations with 4 subsamples per location
Volume of Borrow Area Stockpile	**Samples per Volume**
Up to 1,000 cubic yards	1 sample per 250 cubic yards
1,000 to 5,000 cubic yards	4 samples for first 1000 cubic yards +1 sample per each additional 500 cubic yards
Greater than 5,000 cubic yards	12 samples for first 5,000 cubic yards + 1 sample per each additional 1,000 cubic yards

terials were used, handled or stored as part of the business operations, or unpaved parking areas where petroleum hydrocarbons could have been spilled or leaked into the soil. Undesirable commercial sites include former gasoline service stations, retail strip malls that contained dry cleaners or photographic processing facilities, paint stores, auto repair and/or painting facilities. Undesirable industrial facilities include metal processing shops, manufacturing facilities, aerospace facilities, oil refineries, waste treatment plants, etc. Alternatives to using fill from construction sites include the use of fill material obtained from a commercial supplier of fill material or from soil pits in rural or suburban areas. However, care should be taken to ensure that those materials are also uncontaminated.

Documentation and Analysis

In order to minimize the potential of introducing contaminated fill material onto a site, it is necessary to verify through documentation that the fill source is appropriate and/or to have the fill material analyzed for potential contaminants based on the location and history of the source area. Fill documentation should include detailed information on the previous use of the land from where the fill is taken, whether an environmental site assessment was performed and its findings, and the results of any testing performed. It is recommended that any such documentation should be signed by an appropriately licensed (CA-registered) individual. If such documentation is not available or is inadequate, samples of the fill material should be chemically analyzed. Analysis of the fill material should be based on the source of the fill and knowledge of the prior land use.

Detectable amounts of compounds of concern within the fill material should be evaluated for risk in accordance with the DTSC Preliminary Endangerment Assessment (PEA) Guidance Manual. If

metal analyses are performed, only those metals (CAM 17 / Title 22) to which risk levels have been assigned need to be evaluated. At present, the DTSC is working to establish California Screening Levels (CSL) to determine whether some compounds of concern pose a risk. Until such time as these CSL values are established, DTSC recommends that the DTSC PEA Guidance Manual or an equivalent process be referenced. This guidance may include the Regional Water Quality Control Board's (RWQCB) guidelines for reuse of non-hazardous petroleum hydrocarbon contaminated soil as applied to Total Petroleum Hydrocarbons (TPH) only. The RWQCB guidelines should not be used for volatile organic compounds (VOCs) or semi-volatile organic compounds (SVOCS). In addition, a standard laboratory data package, including a summary of the QA/QC (Quality Assurance/Quality Control) sample results should also accompany all analytical reports.

When possible, representative samples should be collected at the borrow area while the potential fill material is still in place, and analyzed prior to removal from the borrow area. In addition to performing the appropriate analyses of the fill material, an appropriate number of samples should also be determined based on the approximate volume or area of soil to be used as fill material. The table above can be used as a guide to determine the number of samples needed to adequately characterize the fill material when sampled at the borrow site.

Alternative Sampling

A Phase I or PEA may be conducted prior to sampling to determine whether the borrow area may have been impacted by previous activities on the property. After the property has been evaluated, any sampling that may be required can be determined during a meeting with DTSC or appropriate regulatory agency. However, if it is not possible to analyze the fill material at the borrow area or determine that it is appropriate for use via a Phase I or PEA, it is recommended that one (1) sample per truckload be collected and analyzed for all compounds of concern to ensure that the imported soil is uncontaminated and acceptable. (See chart on Potential Contaminants Based on the Fill Source Area for appropriate analyses). This sampling frequency may be modified upon consultation with the DTSC or appropriate regulatory agency if all of the fill material is derived from a common borrow area. However, fill material that is not characterized at the borrow area will need to be stockpiled either on or off-site until the analyses have been completed. In addition, should contaminants exceeding acceptance criteria be identified in the stockpiled fill material, that material will be deemed unacceptable and new fill material will need to be obtained, sampled and analyzed. Therefore, the DTSC recommends that all sampling and analyses should be completed prior to delivery to the site to ensure the soil is free of contamination, and to eliminate unnecessary transportation charges for unacceptable fill material.

Composite sampling for fill material characterization may or may not be appropriate, depending on quality and homogeneity of source/borrow area, and compounds of concern. Compositing samples for volatile and semivolatile constituents is not acceptable. Composite sampling for heavy metals, pesticides, herbicides or PAH's from unanalyzed stockpiled soil is also unacceptable, unless it is stockpiled at the borrow area and originates from the same source area. In addition, if samples are composited, they should be from the same soil layer, and not from different soil layers.

When very large volumes of fill material are anticipated, or when larger areas are being considered as borrow areas, the DTSC recommends that a Phase I or PEA be conducted on the area to ensure that the borrow area has not been impacted by previous activities on the property. After the property has been evaluated, any sampling that may be required can be determined during a meeting with the DTSC.

For further information, call Richard Coffman, Ph.D., R.G., at (818) 551-2175.

Appendix K
Pipeline Safety Hazard Assessment

January 2018 | Pipeline Safety Hazard Assessment

Taft Community School

for Redwood City School District

Prepared for:

School Site Solutions
Contact: John Dominguez, President
2015 H Street
Sacramento, CA 95811
916.930.0720

Prepared by:

PlaceWorks
Contact: Steve Bush, PE
Senior Engineer
1625 Shattuck Avenue, Suite 300
Berkeley, California 94709
510.848.3815
info@placeworks.com
www.placeworks.com

Project Number SSI-03

PLACEWORKS

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1. Introduction

1.1 PURPOSE

This report presents the results of a Pipeline Safety Hazard Assessment (PSHA) prepared for the Redwood City School District (District) which is planning to renovate and reconfigure the existing Taft Community School. The PSHA evaluates potential exposure and fatality risk to staff and students from underground or at-grade natural gas or hazardous liquid pipeline releases and the potential for flooding from high volume water pipelines.

1.2 SCHOOL SITE LOCATION

The District is proposing to renovate and reconfigure the existing Taft Community School, which is located at 903 10th Avenue in the City of Redwood City, San Mateo County, California. The site is bounded on the north by single family residences, to the east by 10th Avenue, to the south by Bay Road, and to the west by 8th Avenue (Figure 1). The Taft Community School site is surrounded by single family residences.

1.3 REGULATORY REQUIREMENTS

Under Education Code Section 17251, the California Department of Education (CDE) has authority to approve acquisition of proposed school sites. The school district must obtain CDE approval for sites to receive state funds under the state's School Facilities Program administered by the State Allocation Board. CDE standards and regulations for this process are presented in California Code of Regulations (CCR), Title 5, Sections 14010, 14011, and 14012. Information on assessing safety hazard related to pipelines is discussed in Section 14010 (h):

> *The site shall not be located near an above-ground water or fuel storage tank or within 1,500 feet of the easement of an above-ground or underground pipeline that can pose a safety hazard as determined by a risk analysis study, conducted by a competent professional, which may include certification from a local public utility commission.*

By CDE policy, "any pipeline that has a maximum operating capacity of at least 80 pounds per square inch (psi), including but not limited to those that carry natural gas, liquid petroleum, fuels or hazardous chemicals, shall be included in a pipeline survey, regardless if the pipeline is classified as a transmission or distribution line. Pipelines located within a railroad or other easement or those pipelines serving gas and oil well sites and fields shall also be included".

Additional information on pipelines is contained in CDE's School Site Selection and Approval Guide. This document states that CDE will not approve a proposed school site if the site "contains one or more pipelines, situated underground or aboveground, which carries hazardous substances, acutely hazardous

materials, or hazardous wastes, unless the pipeline is a natural gas line which is used only to supply natural gas to that school or neighborhood" (CDE, 2000).

The CDE's School Site Selection and Approval Guide also contain provisions for evaluating high-pressure water pipelines:

> *To ensure the protection of students, faculty, and school property if the proposed school site is within 1,500 feet of the easement of an aboveground or underground pipeline that can pose a safety hazard, the school district should obtain the following information from the pipeline owner and operator:*
>
> - *Pipeline alignment, size, type of pipe, depth of cover*
> - *Operating water pressures in pipelines near the proposed school site*
> - *Estimated volume of water that might be released from the pipeline should a rupture occur on the site*
> - *Owner's assessment of the structural condition of the pipeline.*

1.4 REPORT OBJECTIVES

To meet the requirements of CCR Title 5 Sections 14010 (d) and (h) and CDE's policy on pipelines, this PSHA is designed to meet the following objectives:

- Identify all natural gas and hazardous liquid pipelines located within 1,500 feet of proposed or existing school sites
- Complete a Stage 1, Stage 2, or Stage 3 risk analysis for each identified pipeline to predict fatality risk
- Where appropriate, identify and develop mitigation measures to reduce predicted fatality risk to a level below an established significance threshold
- Identify all high pressure/high volume water pipelines within 1,500 feet of the proposed school site and evaluate the potential for flooding
- Where appropriate, identify and develop mitigation measures to reduce flooding impacts to acceptable levels.

1.5 ASSESSMENT METHODLOGY

The CDE has developed and published guidance procedures for evaluating safety hazards associated with natural gas and hazardous liquid releases from underground and aboveground pipelines. A detailed description of the procedures is provided in the Guidance Protocol for School Site Pipeline Risk Analysis (CDE, 2007). These procedures were used in conducting the PSHA.

The PSHA process is composed of two steps. The first step (Stage 1) is a risk screening analysis (RSA), based on the distance of the pipeline(s) from the school site and operating characteristics of the pipeline(s). If the screening criteria are met, the level of risk is acceptable and no further analysis is required.

If the screening criteria are not met, then the second step of the PSHA process is completion of a Stage 2 quantitative risk analysis (QRA). The Stage 2 risk analysis considers pipeline accident rates, school

dimensions, conditional probabilities for ignition, school attendance time, and fatality probabilities for different exposure scenarios (pool fire, flash fire, and explosion) to estimate individual risk (IR). Pipelines located within 50 feet of a school site also are subject to a Stage 3 (more comprehensive) analysis to verify the results of the Stage 2 evaluation.

Individual fatality risk is compared to the significance threshold level of one in one million (1.0×10^{-6}; individual risk criterion, IRC). If the estimated risk is less than one in one million, then no significant safety hazard is predicted for the school site. If the estimated risk is greater than one in one million, mitigation measures are required to reduce risk to within acceptable limits or a more detailed Stage 3 risk analysis can be conducted.

In addition to individual risk, an estimate of the potential risk for the population present at the school site is determined by calculating the total individual risk (TIR) indicator ratio and the population risk indicator. These parameters add an additional perspective by taking into account the site configuration and school population. There is no significance threshold established by the CDE for this evaluation, and this does not replace the IR estimate as the primary decision criteria for evaluating risk at the school site. However, it does provide additional information regarding the magnitude of risk at the school.

The CDE also has developed risk analysis procedures for evaluating flooding associated with releases from large diameter water pipelines, as described in CDE's Guidance Protocol for School Site Pipeline Risk Analysis (CDE, 2007). A safety issue associated with large diameter water pipelines is the potential for flooding. Also, releases from underground water pipelines can cause subterranean erosion of saturated soil, leading to subsidence or formation of a sinkhole. The most likely cause of failure is a large magnitude earthquake and associated strong ground shaking.

Although no specific criteria have been established by the CDE as a threshold of significance for flooding at a school site, a water depth of 12 inches or greater is a trigger that could warrant further evaluation (CDE, 2007).

2. Hazard Assessment

2.1 PIPELINE LOCATION AND OPERATIONAL DATA

There is one natural gas transmission pipeline within 1,500 feet of the school site. No natural gas distribution pipelines or hazardous liquid pipelines were identified within the 1,500-foot radius (McCloskey Consultants, 2017). The location of the pipeline is shown on Figure 1.

Natural gas pipeline data was obtained from Pacific Gas & Electric Company (PG&E, 2018). A 24-inch natural gas transmission pipeline (designated as Line 101) is located approximately 1,460 feet north of the project site in the right-of-way along immediately south of Interstate 101. The pipeline was installed in 1985 and has a maximum allowable operating pressure (MAOP) of 365 pounds per square inch (psig) for the segment nearest the site. The pipeline is constructed of steel and has a wall thickness of 0.375 inch. PG&E pipelines are wrapped with tape or extru-coat plastic and equipped with an induced current cathodic protection system to minimize corrosion, and are buried at least 3 feet below ground surface (bgs). The pipeline is patrolled quarterly and leak surveys are conducted annually. Also, the cathodic protection rectifiers are inspected annually and the pipe-to-soil potentials are measured six times per year. Because the distance between isolation valves was not provided by PG&E, the CDE default distance of 5 miles was conservatively used in this analysis.

The PG&E pipeline is inspected in accordance with Federal (49 Code of Federal Regulations [CFR] 192) and State (California Public Utilities Commission [CPUC] General Order 112-E) regulations. The leakage records within 1,500 feet of the school site were reviewed by PG&E and no reports of pipeline leaks were identified for the high-pressure line. Under Federal and State regulations, the class designation of a pipeline is based on the types of buildings, population density, and level of human activity near the segment of pipeline, and is used to determine the pipeline's MAOP. Pipelines are rated from Class 1 to Class 4, based on increasing levels of population. Class 3 is defined as any location within 220 yards of the pipeline that contains 46 or more dwellings or an area where the pipeline lies within 100 yards of a building or a small, well-defined outdoor area, such as playgrounds, recreational areas, outdoor theaters, or places of assembly, that are occupied for a specified number of days per year. The allowable MAOP for pipelines in a Class 3 location is no more than 50% of the pipeline's specified minimum yield strength (SMYS). A Class 3 location also requires more stringent regulations regarding distances between sectionalizing valves, pipe wall thickness, hydrostatic test pressures, inspection and testing of welds, and frequency of pipeline patrols and leak surveys. The 24-inch transmission line is classified as Class 3 at this location.

Based on plans provided from the City of Redwood City, Department of Public Works, Water Department (RCDPW) and the San Francisco Public Utilities Commission (SFPUC), there are several high volume ($\geq$12 inch diameter) water pipelines within 1,500 feet of the project site, as summarized in Table 1.

Table 1 Water Pipelines

Pipeline Diameter	Pipeline Location	Material of Construction	Agency
16-inch	Bay Road, adjacent to site	Ductile Iron and Cast Iron	City of Redwood City, Department of Public Works, Water Department (RCDPW)
16-inch	12th Avenue, 420 feet southeast of the site	Ductile Iron	RCDPW
12-inch	Spring Street, 690 feet south of the site	Polyvinyl Chloride	RCDPW
60-inch	Hetch Hetchy Easement, Bay Division Pipeline (BDPL) No. 2; Approximately 1,100 feet south of site	Welded Steel	San Francisco Public Utilities Commission (SFPUC)
66-inch	Hetch Hetchy Easement, BDPL No. 1; 1,105 feet south of site	Riveted Steel	SFPUC
60-inch	Hetch Hetchy Easement, BDPL No. 5; 1,115 feet south of site	Welded Steel	SFPUC

The locations of the water pipelines are shown on Figure 1, and an evaluation of flooding potential with respect to the school site is provided in Section 2.5.

2.2 LAND USE AND TERRAIN

Surrounding land uses consist of existing residential properties. There are several buildings or structures that could partially block or buffer vapor releases or jet flames if an incident were to occur involving the natural gas pipeline north of the site. Potential ignition sources may include motor vehicles traveling along the adjacent streets, traffic signals, overhead high voltage electrical lines, and residential gas heating units.

2.3 RELEASE AND CONSEQUENCE SCENARIOS

In accordance with the CDE Guidance Protocol, two conservative release scenarios were evaluated for the natural gas pipeline: 1) a rupture or high volume release equal to the pipeline's diameter, and 2) a leak or small volume release from a 1-inch diameter hole. Three potential consequences were evaluated for each release scenario: 1) jet flame, 2) flash fire (flammable vapor cloud), and 3) explosion. Results from the ALOHA computer analyses indicate that unconfined vapor cloud explosions would not occur in an open environment (i.e., residential land use setting) and this scenario was not subject to further analysis.

2.4 STAGE 1 AND STAGE 2 RISK ANALYSIS

The 24-inch natural gas transmission pipeline meets the criteria for a Stage 1 screening analysis, as listed in Table 2.

Table 2 Stage 1 Screening Analysis

Parameters	Stage 1 Criteria	Meets Criteria?	Site Value
No. of pipelines within 1,500 foot radius	One	Yes	One
Segment length	1,000 feet or less	Yes	990 feet
Pipeline diameter	≤ 24 inches	Yes	24 inches
Maximum pressure	≤400 psi	Yes	365 psi
Pipeline distance from project site	≥600 feet	Yes	1,460 feet
Pipeline failure rate	≤ 1.2E-04	Yes	1.2E-04

The results of the risk screening evaluation indicate that the criteria for a Stage 1 analysis have been met. To confirm the results, a Stage 2 analysis was also conducted for the 24-inch natural gas pipeline. The results provided in Appendix A indicate that the hazard footprints for this pipeline do not extend farther than 1,284 feet and would not reach the school site, which is approximately 1,460 feet from the pipeline. Therefore, in accordance with CDE procedures, no further evaluation is required.

2.5 WATER PIPELINE FLOODING ANALYSIS

In addition to natural gas and hazardous liquid pipelines, the CDE requires that the risk of releases from high volume (≥12 inches) water pipelines be evaluated. The CDE Guidance Protocol for School Pipeline Risk Analysis provides a methodology for evaluating the potential for flooding. A probability analysis is not required.

Because the two 16-inch and one 12-inch water pipelines are located beneath streets, a pipeline flooding analysis was conducted to determine the depth and location of water flow within the street in the event of a pipeline leak or rupture. For this worst-case analysis, it was conservatively assumed that all of the water flowing through the pipelines at their maximum capacity would reach the surface. In addition, no credit was taken for the presence of storm drains along these streets.

Release impacts were calculated based on the procedures specified in the CDE manual. The release rate was determined by multiplying the pipe area by an assumed velocity of 5 feet per second (fps). Then the release rate was compared to the carrying capacity of the street, taking into account longitudinal slope, to determine if the water would be contained within the confines of the street curbing (Jeffers & Associates, 2006). The results are provided in Table 3.

2. Hazard Assessment

Table 3 Water Pipeline Flooding Analysis – Street Flow

Pipeline Diameter (in)	Pipeline Location	Release Rate (cfs)	Street Width (ft)	Depth of Flow in Street (in)	Exceeds Street Carrying Capacity?
16-inch	Bay Road	6.98	52	5.4	No
16-inch	12th Avenue	6.98	28	4.7	No
12-inch	Spring Street	3.93	32	4.4	No

Assuming a standard 6-inch curb for residential streets, the water released from a full-flow rupture of any of the water mains would be entirely contained within the confines of the curbing and would not result in flooding at the school site.

For water pipelines located in easements or right-of-ways with no curbing, the modeling approach from the CDE guidance manual assumes that all of the released water at a maximum flow rate reaches the surface and forms a circular pool with a water depth of 12 inches. The results are provided in Table 4.

Table 4 Water Pipeline Flooding Analysis – Pooling

Pipeline Diameter (in)	Pipeline Location	Release Rate (cfs)	Impact Distance for Circular Pool (ft)	Distance from School Site (ft)	Potentially Impacts School Site?
60-inch	Hetch Hetchy Easement	98.2	194 (97 ft radius)	1,100	No
66-inch	Hetch Hetchy Easement	118.8	213 (106.5 ft radius)	1,105	No
60-inch	Hetch Hetchy Easement	98.2	194 (97 ft radius)	1,115	No

The calculations show that a release from the water pipelines would not impact the school site. For this worst-case analysis, it was conservatively assumed that all of the water flowing through the pipelines at their maximum capacity would reach the surface. In addition, no credit was taken for the existing surface topography.

In summary, a potential break in any of the water pipelines located within 1,500 feet of the site would not result in significant flooding at the school.

2.6 SUMMARY AND RECOMMENDATIONS

The results of the Stage 1 and Stage 2 screening analysis indicate that the 24-inch natural gas transmission pipeline located 1,460 feet north of the site would not pose a risk to students or staff at the proposed school site because the hazard footprints do not reach the school site. If a rupture or leak should occur in the water mains within 1,500 feet of the school site, the results of the flooding analysis indicate that the released water would not result in water depths at the school site that would pose a risk to students and staff.

Even though the impact of pipeline releases was found to be less than significant, it is recommended that the school's emergency response and evacuation plan address the possibility of natural gas or water pipeline releases and identify potential evacuation routes. Also, contact names and numbers for the natural gas provider and water agencies (Pacific Gas and Electric Company, San Francisco Public Utilities Commission and City of Redwood City, Department of Public Works) should be maintained with the emergency response plan in case the school needs to report pipeline releases. A map of the pipeline locations and emergency contact information should be kept with the school's emergency response plan.

3. References

California Department of Education (CDE), 2007. Guidance Protocol for School Site Pipeline Risk Analysis, Prepared by URS Corporation. February, 2007.

_____. 2000. Resources for School Facilities Planning, School Selection and Approval Guide. Prepared by School Facilities Planning Division, CDE, Sacramento, CA.

City of Redwood City, 2018. Geographic Information Services (GIS) Tool, Utilities – Water Main layer at http://webgis.redwoodcity.org/community/. Accessed on January 10, 2018.

Jeffers & Associates, 2006. Modified Manning's Equation Solver. Version 3.0.

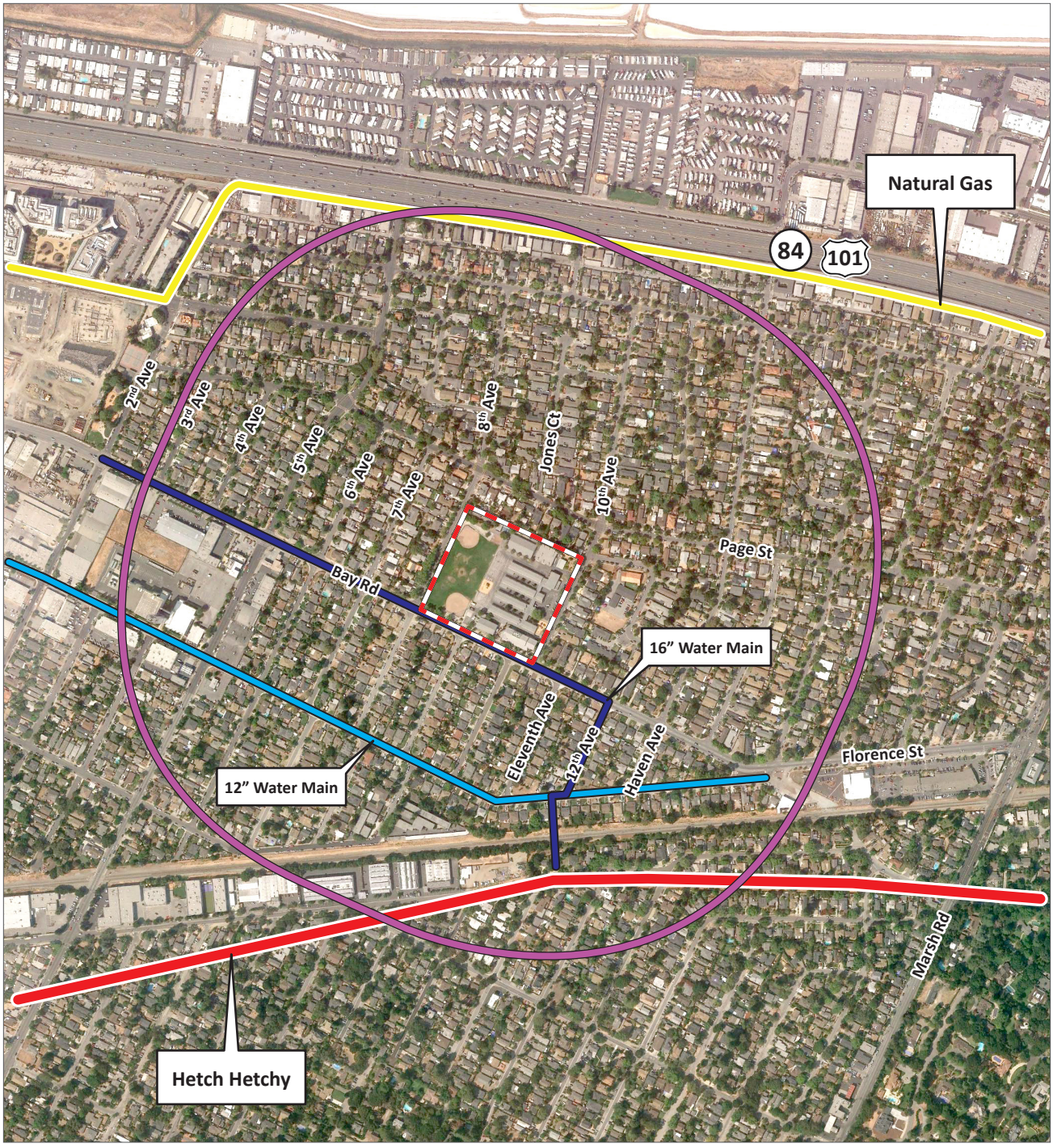
McCloskey Consultants, Inc., 2017. CDE/CCR Title 5 Geologic and Safety Hazards Evaluation, Taft Community School, 903 10th Avenue, Redwood City, San Mateo County, California. Dated July 17, 2017.

National Pipeline Mapping System, 2017. Hazardous liquids pipeline map produced by the NPMS Public Viewer at www.npms.phmsa.dot.gov. Accessed on July 26, 2017.

Pacific Gas & Electric (PG&E) Company, 2018. Pipeline information and map provided by Mr. Steven Liu, Gas Technical Specialist, for PG&E to Mr. Steve Bush, PE, Senior Engineer, PlaceWorks. Dated January 12, 2018.

San Francisco Public Utilities Commission, 2017. SFPUC Response to PlaceWorks Information Request. Dated November 28, 2017.

US Environmental Protection Agency (USEPA), 2016. ALOHA (Areal Locations of Hazardous Atmospheres) computer model, Version 5.4.7, at USEPA website: http://www.epa.gov/emergencies/content/cameo/aloha.htm.



Source: Google Earth Professional, 2018; PlaceWorks, 2018.

0 1,000
Scale (Feet)

Project Site Boundary
1,500-ft Radius of Concern
Hetch Hetchy Pipeline Easement
24-Inch Natural Gas Transmission Pipeline
16-Inch Water Main
12-Inch Water Main

Figure 1
School Site and Pipeline Map

Appendix A. CDE Risk Analysis Summary Forms and Calculations

Appendix

Local Educational Agency	
Date:	January 18, 2018
Local Educational Agency	Redwood City School District
Contact	Mr. John Dominguez – President of School Site Solutions
Telephone Number	916.930.0720
E-mail address	john@schoolsitesolutions.com
Street Address	2015 H Street
Department or Mail Drop	
City	Sacramento
County	Sacramento County
Zip Code	95811
Proposed School Campus Site	
Name	Taft Community School
Location Description	903 10th Avenue, Redwood City, CA 94063
Pipelines of Interest	One natural gas transmission pipeline
Operator/Owner	Pacific Gas and Electric Company
Product Transported	Natural Gas
Pipeline Diameter (inches)	24-inch
Operating Pressure (psig)	365 psig
Closest Approach to Property Line	1,460 feet

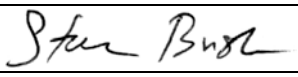
Individual Risk Estimate Result

Type of Analysis (Check One)	Stage 1	X	Stage 2	X	Stage 3		
Individual Risk Estimate Value	Zero (hazard footprints don't reach school site)						
Individual Risk Criterion	1.0E-06 (0.000001)						
IR Significance (check one)	**Significant**						
	Insignificant	X					

Certification and Signatures of Risk Analyst(s)

This analysis was conducted according to the 2007 CDE Protocol except as noted. All modifications within the Stage 2 framework, and exceptions to the data and processes established in the 2007 CDE Protocol, if any, were based upon my professional opinion and in a manner consistent with the standards of care and skill ordinarily exercised by professionals working on similar projects.

I certify that the estimated risk levels were derived based upon the 2007 CDE Protocol, unless otherwise noted, and that these levels demonstrate, with reasonable expectations of uncertainties for such estimates, that the estimated Individual Risk for the school site, as the site was planned at the time of this analysis, including mitigation measures, if any, meets the Individual Risk Criterion stated in the 2007 CDE Protocol, based on the information provided to me.

Printed Name	Signature	Position or Title
Steven J. Bush, P.E.		Senior Engineer

Notice: In the event that the Individual Risk Criterion could not be met, at the option of the LEA, CDE will still accept a report for review and consultation with the LEA.

24-INCH NATURAL GAS TRANSMISSION PIPELINE

Input Data		
Product	natural gas	
Diameter	24	inches
Pressure	365	psig
R0	1460	ft

XSEG	RX(1%)	Units
XSEG(LJF)	0	ft
XSEG(RJF)	0	ft
XSEG(LFF)	0	ft
XSEG(RFF)	0	ft
XSEG(LEX)	0	ft
XSEG(REX)	0	ft

Base and Conditional Probability Calculations							
Base		**Leak**		**Rupture**		**Exposure**	
F0	1.2E-04	**PC(L)**	0.8	**PC(R)**	0.2	**PC(OCC)**	0.16
P0	1.2E-04	**PC(LIG)**	0.3	**PC(RIG)**	0.45	**PC(OUT)**	0.25
PAF	1.0	**PC(FIG)**	0.99	**PC(FIG)**	0.99		
PA	1.2E-04	**PC(JF)**	0.98	**PC(JF)**	0.98		
		PC(FF)	0.01	**PC(FF)**	0.01		
		PC(EIG)	0.01	**PC(EIG)**	0.01		
Calculated Values:							
PA(LJF)	0.0E+00	**PCI(LJF)**	0.233	**PCI(RJF)**	0.087		
PA(RJF)	0.0E+00	**PCI(LFF)**	0.002	**PCI(RFF)**	0.001		
PA(LFF)	0.0E+00	**PCI(LEX)**	0.002	**PCI(REX)**	0.001	**PC(EXPO)**	0.04
PA(RFF)	0.0E+00						
PA(LEX)	0.0E+00						
PA(REX)	0.0E+00						

Impact Probability Calculations							
Probability Term				**Values**			
PC(LJF) =	**PA(LJF) x**	**PCI(LJF) x**	**PC(EXPO) =**	0.0E+00	0.23	0.040	**0.0E+00**
PC(RJF) =	**PA(RJF) x**	**PCI(RJF) x**	**PC(EXPO) =**	0.0E+00	0.09	0.040	**0.0E+00**
PC(LFF) =	**PA(LFF) x**	**PCI(LFF) x**	**PC(EXPO) =**	0.0E+00	0.002	0.040	**0.0E+00**
PC(RFF) =	**PA(RFF) x**	**PCI(RFF) x**	**PC(EXPO) =**	0.0E+00	0.001	0.040	**0.0E+00**
PC(LEX) =	**PA(LEX) x**	**PCI(LEX) x**	**PC(EXPO) =**	0.0E+00	0.002	0.040	**0.0E+00**
PC(REX) =	**PA(REX) x**	**PCI(REX) x**	**PC(EXPO) =**	0.0E+00	0.001	0.040	**0.0E+00**

Based on data from impact distance figures in Section 4.6 and mortality figures in Section 4.5, enter the maximum impact probability at receptor location for each hazard in MAX PF(X) column.

IR Calculation				
	MAX PF(X)		**PC(X)**	**IR(X)**
IR(LJF) =	1.00		0.0E+00	**0.0E+00**
IR(RJF) =	1.00		0.0E+00	**0.00E+00**
IR(LFF) =	1.00		0.0E+00	**0.00E+00**
IR(RFF) =	1.00		0.0E+00	**0.00E+00**
IR(LEX) =	0.00		0.0E+00	**0.00E+00**
IR(REX) =	0.00		0.0E+00	**0.00E+00**
TOTAL INDIVIDUAL RISK, TIR				**0.0E+00**
CDE INDIVIDUAL RISK CRITERION, IRC				**1.0E-06**
TIR/IRC RATIO				**0.00**
PROTOCOL TIR INDICATOR RATIO				**0.00**

Hazard footprints do not reach the school site.

XSEG Calculations

Pipe Size, Pressure, and Hazard Type			Front Property Line - Begin Zone 1			Begin Zone 2			Begin Zone 3			End Zone 3 -Back Property Line		
Pipe Size	Press.	Hazard X	RX (1%)	R0	XSEG	RX (1%)	R0	XSEG	RX (1%)	R0	XSEG	RX (1%)	R0	XSEG
(in)	(psig)		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
24	365	LJF	33	1460	0	33	1640	0	33	1820	0	33	2000	0
24	365	RJF	309	1460	0	309	1640	0	309	1820	0	309	2000	0
24	365	LFF	114	1460	0	114	1640	0	114	1820	0	114	2000	0
24	365	RFF	1284	1460	0	1284	1640	0	1284	1820	0	1284	2000	0
24	365	LEX	0	1460	0	0	1640	0	0	1820	0	0	2000	0
24	365	REX	0	1460	0	0	1640	0	0	1820	0	0	2000	0

Text Summary ALOHA® 5.4.7

```
SITE DATA:
  Location: REDWOOD CITY, CALIFORNIA
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)
  Time: January 12, 2018  1347 hours PST (using computer's clock)

CHEMICAL DATA:
  Chemical Name: METHANE
  CAS Number: 74-82-8                    Molecular Weight: 16.04 g/mol
  PAC-1: 65000 ppm   PAC-2: 230000 ppm   PAC-3: 400000 ppm
  LEL: 50000 ppm     UEL: 150000 ppm
  Ambient Boiling Point: -258.7° F
  Vapor Pressure at Ambient Temperature: greater than 1 atm
  Ambient Saturation Concentration: 1,000,000 ppm or 100.0%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
  Wind: 3 meters/second from N at 3 meters
  Ground Roughness: urban or forest      Cloud Cover: 5 tenths
  Air Temperature: 77° F                 Stability Class: D
  No Inversion Height                    Relative Humidity: 50%

SOURCE STRENGTH:
  Flammable gas escaping from pipe (not burning)
  Pipe Diameter: 24 inches               Pipe Length: 26400 feet
  Unbroken end of the pipe is closed off
  Pipe Roughness: smooth                 Hole Area: 0.785 sq in
  Pipe Press: 379.7 psia                 Pipe Temperature: 77° F
  Release Duration: ALOHA limited the duration to 1 hour
  Max Average Sustained Release Rate: 281 pounds/min
     (averaged over a minute or more)
  Total Amount Released: 15,518 pounds

THREAT ZONE:
  Threat Modeled: Flammable Area of Vapor Cloud
  Model Run: Gaussian
  Red   : 38 yards --- (50000 ppm = LEL)
  Note: Threat zone was not drawn because effects of near-field patchiness
     make dispersion predictions less reliable for short distances.
```

Text Summary ALOHA® 5.4.7

```
SITE DATA:
  Location: REDWOOD CITY, CALIFORNIA
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)
  Time: January 12, 2018  1347 hours PST (using computer's clock)

CHEMICAL DATA:
  Chemical Name: METHANE
  CAS Number: 74-82-8                    Molecular Weight: 16.04 g/mol
  PAC-1: 65000 ppm   PAC-2: 230000 ppm   PAC-3: 400000 ppm
  LEL: 50000 ppm     UEL: 150000 ppm
  Ambient Boiling Point: -258.7° F
  Vapor Pressure at Ambient Temperature: greater than 1 atm
  Ambient Saturation Concentration: 1,000,000 ppm or 100.0%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
  Wind: 3 meters/second from N at 3 meters
  Ground Roughness: urban or forest      Cloud Cover: 5 tenths
  Air Temperature: 77° F                 Stability Class: D
  No Inversion Height                    Relative Humidity: 50%

SOURCE STRENGTH:
  Flammable gas is burning as it escapes from pipe
  Pipe Diameter: 24 inches               Pipe Length: 26400 feet
  Unbroken end of the pipe is closed off
  Pipe Roughness: smooth                 Hole Area: 0.785 sq in
  Pipe Press: 379.7 psia                 Pipe Temperature: 77° F
  Max Flame Length: 2 yards
  Burn Duration: ALOHA limited the duration to 1 hour
  Max Burn Rate: 286 pounds/min
  Total Amount Burned: 15,518 pounds

THREAT ZONE:
  Threat Modeled: Thermal radiation from jet fire
  Red   : less than 10 meters(10.9 yards) --- (15.77 kW/(sq m))
```

Text Summary ALOHA® 5.4.7

```
SITE DATA:
  Location: REDWOOD CITY, CALIFORNIA
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)
  Time: January 12, 2018  1347 hours PST (using computer's clock)

CHEMICAL DATA:
  Chemical Name: METHANE
  CAS Number: 74-82-8                    Molecular Weight: 16.04 g/mol
  PAC-1: 65000 ppm   PAC-2: 230000 ppm   PAC-3: 400000 ppm
  LEL: 50000 ppm     UEL: 150000 ppm
  Ambient Boiling Point: -258.7° F
  Vapor Pressure at Ambient Temperature: greater than 1 atm
  Ambient Saturation Concentration: 1,000,000 ppm or 100.0%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
  Wind: 3 meters/second from N at 3 meters
  Ground Roughness: urban or forest      Cloud Cover: 5 tenths
  Air Temperature: 77° F                 Stability Class: D
  No Inversion Height                    Relative Humidity: 50%

SOURCE STRENGTH:
  Flammable gas escaping from pipe (not burning)
  Pipe Diameter: 24 inches               Pipe Length: 26400 feet
  Unbroken end of the pipe is connected to an infinite source
  Pipe Roughness: smooth                 Hole Area: 452 sq in
  Pipe Press: 379.7 psia                 Pipe Temperature: 77° F
  Release Duration: ALOHA limited the duration to 1 hour
  Max Average Sustained Release Rate: 33,200 pounds/min
     (averaged over a minute or more)
  Total Amount Released: 1,160,195 pounds

THREAT ZONE:
  Threat Modeled: Flammable Area of Vapor Cloud
  Model Run: Gaussian
  Red   : 428 yards --- (50000 ppm = LEL)
```

Text Summary ALOHA® 5.4.7

```
SITE DATA:
  Location: REDWOOD CITY, CALIFORNIA
  Building Air Exchanges Per Hour: 0.63 (unsheltered single storied)
  Time: January 12, 2018  1347 hours PST (using computer's clock)

CHEMICAL DATA:
  Chemical Name: METHANE
  CAS Number: 74-82-8                    Molecular Weight: 16.04 g/mol
  PAC-1: 65000 ppm   PAC-2: 230000 ppm   PAC-3: 400000 ppm
  LEL: 50000 ppm     UEL: 150000 ppm
  Ambient Boiling Point: -258.7° F
  Vapor Pressure at Ambient Temperature: greater than 1 atm
  Ambient Saturation Concentration: 1,000,000 ppm or 100.0%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)
  Wind: 3 meters/second from N at 3 meters
  Ground Roughness: urban or forest      Cloud Cover: 5 tenths
  Air Temperature: 77° F                 Stability Class: D
  No Inversion Height                    Relative Humidity: 50%

SOURCE STRENGTH:
  Flammable gas is burning as it escapes from pipe
  Pipe Diameter: 24 inches               Pipe Length: 26400 feet
  Unbroken end of the pipe is connected to an infinite source
  Pipe Roughness: smooth                 Hole Area: 452 sq in
  Pipe Press: 379.7 psia                 Pipe Temperature: 77° F
  Max Flame Length: 66 yards
  Burn Duration: ALOHA limited the duration to 1 hour
  Max Burn Rate: 165,000 pounds/min
  Total Amount Burned: 1,160,195 pounds

THREAT ZONE:
  Threat Modeled: Thermal radiation from jet fire
  Red   : 103 yards --- (15.77 kW/(sq m))
```

Modified Manning's Equation Solver

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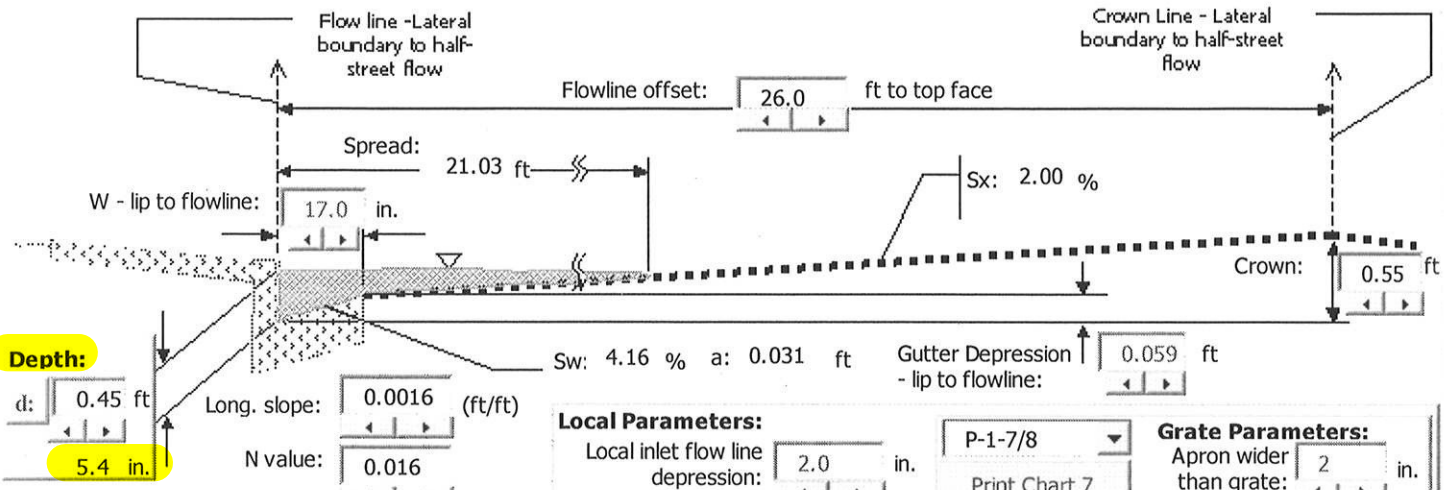
Parameters | Composite Triangular Sections | Head - Discharge Table | Assumptions | Inlet Geometry | Disclaimer



Street Parameters:

Q:	6.98	cfs
K:	174.5	
Vel:	1.57	ft/s
Eo:	17.9	%
W/T:	0.0674	

Standard Manning's:

Q:	5.76	cfs
K:	144.1	
Vel:	1.30	ft/s
Rh:	0.21	ft
Area:	4.44	sf

Local Parameters:

Local inlet flow line depression: 2.0 in.

Curb Opening Parameters:

C-O Apron wider than gutter: 0 in.

S'w 13.9 % Se: 4.49 %

Length of curb opening inlet: 12.0 ft

Lt: 15.14 ft

80 % Clear Efficiency 83.6 %

Curb opening flowby: 1.14 cfs

P-1-7/8

Print Chart 7

Grate Parameters:

Apron wider than grate: 2 in.

Length: 48 in. Width: 22 in.

% Factor 50 % Factor 50

Splash-over Vel: 11.58 ft/s Vel over grate: 1.56 ft/s

Eo: 69.26 %

Rs: 30.78 % Rf: 100.00 %

Side flow captured: 0.23 cfs Frontal captured: 0.40 cfs

Total combined CB flowby: 0.52 cfs

16-Inch Water Main - Bay Road
Street Flow

Modified Manning's Equation Solver

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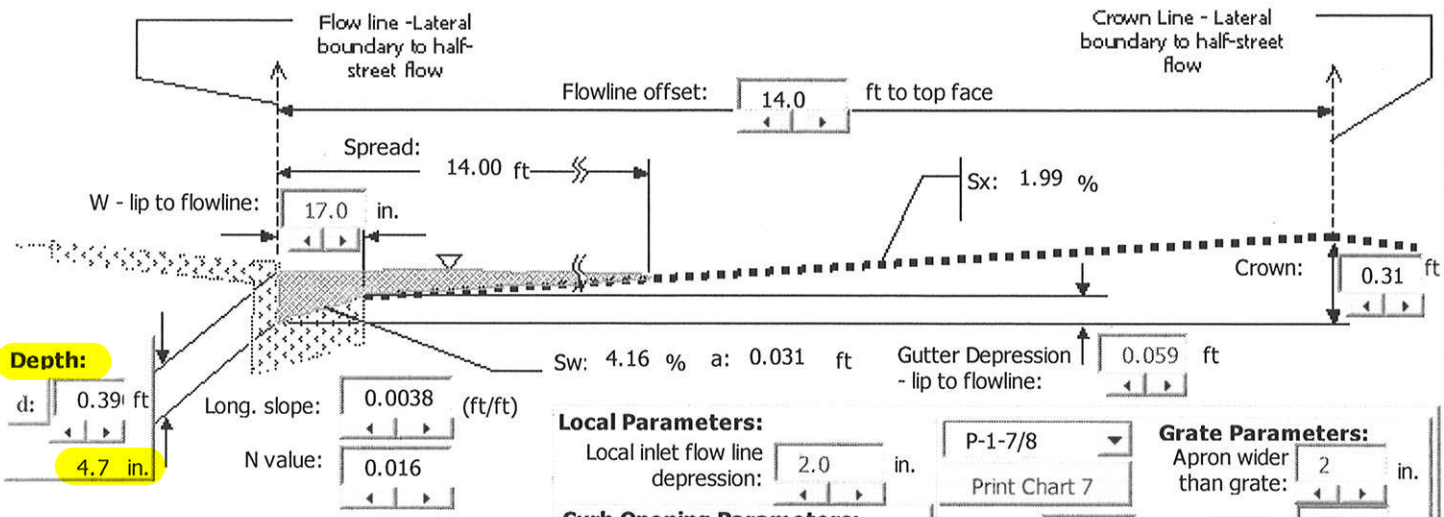
Parameters | Composite Triangular Sections | Head - Discharge Table | Assumptions | Inlet Geometry | Disclaimer



Street Parameters:

Q:	6.98	cfs
K:	113.2	
Vel:	2.26	ft/s
Eo:	21.2	%
W/T:	0.1012	

Standard Manning's:

Q:	6.35	cfs
K:	103.0	
Vel:	2.05	ft/s
Rh:	0.21	ft
Area:	3.09	sf

Local Parameters:

Local inlet flow line depression: 2.0 in.

Curb Opening Parameters:

C-O Apron wider than gutter: 0 in.

S'w 13.9 % Se: 4.95 %

Length of curb opening inlet: 12.0 ft

Lt: 18.50 ft

80 % Clear Efficiency 73.2 %

Curb opening flowby: 1.87 cfs

P-1-7/8

Print Chart 7

Grate Parameters:

Apron wider than grate: 2 in.

Length: 48 in. Width: 22 in.

% Factor 50 % Factor 50

Splash-over Vel: 11.58 ft/s Vel over grate: 2.43 ft/s

Eo: 67.60 %

Rs: 16.76 % Rf: 100.00 %

Side flow captured: 0.21 cfs Frontal captured: 0.63 cfs

Total combined CB flowby: 1.03 cfs

16-Inch Water Main - 12th Avenue
Street Flow

Modified Manning's Equation Solver

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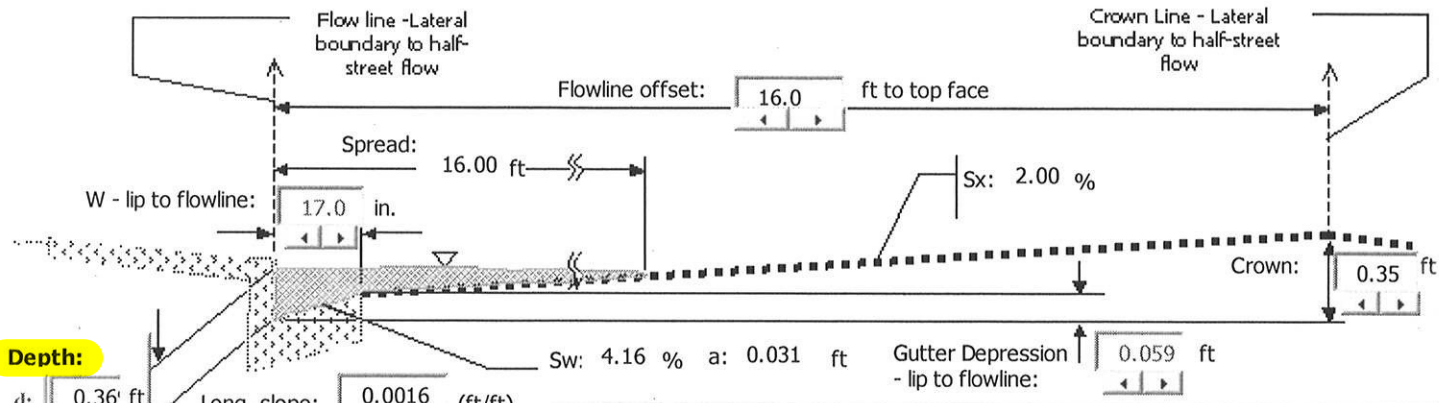
Print | Save | Quit

Parameters | Composite Triangular Sections | Head - Discharge Table | Assumptions | Inlet Geometry | Disclaimer



Street Parameters:

Q:	3.93	cfs
K:	98.3	
Vel:	1.37	ft/s
Eo:	22.1	%
W/T:	0.0885	

Standard Manning's:

Q:	3.35	cfs
K:	83.7	
Vel:	1.16	ft/s
Rh:	0.18	ft
Area:	2.87	sf

Local Parameters:

Local inlet flow line depression: 2.0 in.

Curb Opening Parameters:

C-O Apron wider than gutter: 0 in.

S'w 13.9 % Se: 5.08 %

Length of curb opening inlet: 12.0 ft

Lt: 11.05 ft

80 % Clear Efficiency 97.4 %

Curb opening flowby: 0.10 cfs

P-1-7/8

Print Chart 7

Grate Parameters:

Apron wider than grate: 2 in.

Length: 48 in. Width: 22 in.

% Factor 50 % Factor 50

Splash-over Vel: 11.58 ft/s Vel over grate: 0.85 ft/s

Eo: 100.00 %

Rs: 35.35 % Rf: 100.00 %

Side flow captured: 0.02 cfs Frontal captured: 0.05 cfs

Total combined CB flowby: 0.03 cfs

12-Inch Water Main - Spring Street
Street Flow

Appendix B. Agency Correspondence

From:	Liu, Steven
To:	Steve Bush
Subject:	RE: confirm information for Line 101, Taft Community School
Date:	Friday, January 12, 2018 1:31:05 PM
Attachments:	Redwood City Taft Community School Site Map.pdf Redwood_City_Taft_School_Site_Questionnaire.xlsx

Hi Steve,

That information is correct and still valid. I've attached the site map and questionnaire for the original response.

-steve

From: Steve Bush [mailto:sbush@placeworks.com]
Sent: Friday, January 12, 2018 12:23 PM
To: Liu, Steven
Subject: confirm information for Line 101, Taft Community School

*****CAUTION**: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*****

Steve,

I'm preparing a pipeline risk analysis per CCR Title 5 for the Redwood City School District for the Taft Community School modernization project (903 10th Avenue, Redwood City, CA). McCloskey Consultants requested information from Eric Alvarado in June 2017 for transmission line 101, and I'd like to confirm the following received information for the segment which is approximately 1,500 feet north of the school site (in right-of-way south of Interstate 101):

Line 101; 24-inch diameter steel pipeline installed in 1985; MAOP 365 psig

Attached is the vicinity map illustrating the 1,500 ft radius of concern.

Thank you,

STEVE BUSH, PE
Senior Engineer

1625 Shattuck Avenue, Suite 300 | Berkeley, California 94709
510.848.3815 | sbush@placeworks.com | placeworks.com

Questionnaire For Natural Gas Pipeline Risk Analysis Study

Subject Property:	903 10th Ave Redwood City 94063	
1	Pipeline Reference (identification, line no., etc.):	101
	1a. Type: (Distribution, Gathering or Transmission):	Local Transmission
2	Date of Installation (Year):	1985
3	Maximum Allowable Operating Pressure (psig):	365
	3a. Normal Operation Pressure (MOP)	365
4	Diameter (inches):	24
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .375
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	19.47
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

QUESTIONNAIRE COMPLETED BY:

NAME:	Steven Liu	SIGNATURE:	s3lg@pge.com
TITLE	Gas Technical Specialist	DATE:	6/22/2017
COMPANY	PG&E		

06/22/2017
PG&E Critical Infrastructure Information
Must Be Held In Confidence
Facilities to be Operated by PG&E Personnel Only
Call 811 Before You Dig

School Site
taft_buffer
Transmission Main
Gas Station

School Site Map
903 10th Ave Redwood City CA 94063
Gas Engineering & Operations
Geographic Information Services

By: S3LG
1 inch = 425 feet (approx.)
0 0.2
Miles

N

San Francisco
Water Power Sewer
Operator of the Hetch Hetchy Regional Water System

Water Supply & Treatment Division
1000 El Camino Real
Millbrae, CA 94030-0730
T 650.872-5900
F 650.872-5984

November 28, 2017

Ms. Alexis Whitaker, Project Scientist
PLACEWORKS
1625 Shattuck Ave, Suite 300
Berkeley, CA 94709

Subject: Utility Information Request for Bay Division Pipeline No.1, No.2 & No.5 in Redwood City

Dear Ms. Whitaker,

In response to your letter dated November 22, 2017 requesting for utility information within the proposed project areas, I am attaching a copy of drawings E-711, E-712, E-2336, E-5166 and E-17054 to E-17062 showing the locations of SFPUC's Bay Division Pipelines No.1, No. 2 and No.5 on our pipeline right-of-way. The drawings showing SFPUC pipeline sizes and approximate locations are for your reference only. **Exact location and depth of pipelines must be verified by potholing.**

If you need to work within the SFPUC rights-of-way, Please apply for a revocable permit or consent from Ms. Stacie Feng at (650) 871-2037.

Sincerely,

Jonathan Chow, P.E.
Manager, Maintenance Engineering

JC: SC
File

Edwin M. Lee
Mayor

Francesca Vietor
President

Anson Moran
Vice President

Ann Moller Caen
Commissioner

Vince Courtney
Commissioner

Ike Kwon
Commissioner

Harlan L. Kelly, Jr.
General Manager

Appendix L
Final Transportation Impact Study Report

Final Transportation Impact Study Report

Taft Community School

Redwood City, California

January 29, 2018

TJKM

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EXECUTIVE SUMMARY

This report summarizes the results of the Traffic Impact Study (TIS) conducted for the modernized Taft Community School located at 903 Tenth Avenue, Redwood City, California. The school is situated in between the intersection of Page Street/Tenth Avenue and Bay Road/Tenth Avenue in Redwood City, California. The purpose of this traffic impact study is to evaluate the potential traffic impacts resulting from the development of the proposed project on the surrounding transportation system.

The project proposes to construct a two-story classroom building consisting of six classrooms, a new ballfield and new parking structure. Taft Community School currently serves grades Transitional Kinder (TK) – Grade 5 of surrounding neighborhood. The campus consists of five permanent one-story buildings, Multi-use building and the Family Center. The site is also home to PAL, the Police Activities League, which has a two-story building located on the corner of the Tenth Avenue and Bay Road.

Taft Community School has Classrooms for Preschool, Transitional Kinder, Kindergarten,1st-3rd Grade, 4th-5th Grade,6th-8th Grade, Science Labs, Electives, Technology/Computer Lab, Special Day Class, Special Education, Resource Specialist, Occupational Therapy, Physical Education and After School Program activities.

The maximum enrollment for the elementary school is 416 students with approximately 55 teachers and staff. The schools may have year-round schedules (August-July) and serves students from the local area. The physical facilities are slated to include standard educational facilities including classrooms, library, offices, playgrounds, and parking lot. The hours of operation of school is from 8:15 a.m. to 12:15 p.m. for Kindergarten Group A, 9:40 a.m. to 2:00 p.m. for Kindergarten Group B. For Grades 1-3, operating hours are from 8:15 a.m. to 2:24 p.m. and for Grades 4-6 operating hours are from 8:15 a.m. to 2:45 p.m., Monday through Friday except Thursday. On Thursday, there will be an early dismissal for all the students. After school activities and events will also occur. Taft Community School has Family Center and operating hours are from 8:00 a.m. to 4:00 p.m. on all days. The drop off/pick-up location is provided within the school premises, which is accessible through Tenth Avenue. Access to the school is from Tenth Avenue and Eighth Avenue.

The report also includes evaluations and recommendations concerning project site access and on-site circulation for vehicles, bicycles, and pedestrians; evaluation of on-site vehicle parking supply.

To evaluate the impacts on the transportation infrastructure due to the addition of traffic from the proposed project, four study intersections were evaluated during the weekday a.m., midday, and p.m. peak hour under two study scenarios. The study intersections were evaluated under *Existing No Project* and *Existing plus Project* scenarios. For the purposes of this analysis, potential traffic operational effects from the proposed project are identified based on established traffic operational thresholds of the City of Redwood City.

Project Trip Generation

The proposed project is expected to generate 487 daily vehicular trips in which 150 weekday a.m. peak hour trips (83 inbound trips, 67 outbound trips) and 50 weekday p.m. peak hour trips (24 inbound trips, 26

outbound trips).TJKM applied 20 percent trip discounts to the proposed project for buses, pedestrian and bicycle uses.

Existing Conditions

Under this scenario, all intersections operates within the applicable jurisdictional standards of City of Redwood City (LOS D) or better during the a.m., midday, and p.m. peak hours.

Existing plus Project Conditions

Under this scenario, all intersections operates within the applicable jurisdictional standards of City of Redwood City (LOS D) or better during the a.m., midday, and p.m. peak hours.

Based on the City of Redwood City impact criteria the project is expected to have a less-than-significant impact at all the study intersections.

Pedestrian, Bicycle and Transit Impacts

Pedestrian access to the site will be via existing sidewalks on Page Street, Bay Road, Tenth Avenue and Eighth Avenue. There are six bus stops within the vicinity of the project site. The proposed project does not conflict with existing and planned pedestrian or bicycle facilities and will add very few trips to existing transit facilities, which can be accommodated by the existing transit capacity. Therefore, there will be no degrading of pedestrian, bicycle, or transit facilities related to the school operations.

On-Site Circulation

TJKM examined the project site plan in order to evaluate the adequacy of on-site one-way vehicle circulation including vans and emergency vehicles. Based on the evaluation, the proposed on-site vehicle circulation is very adequate and should not result in any significant traffic operations issues. The one-way flow helps to distribute project traffic over two locations rather than concentrated at one driveway. It also facilitates and simplifies on-site parking and loading and unloading of passengers. On-site queueing is expected to be minimal. The project alternatives considered would reverse the direction of the one-way traffic flow but are unlikely to reduce the adequacy of on-site circulation or access.

Parking

The City of Redwood City Municipal Code requires School enrolling students in the tenth (10th) grade or below shall provide one space for each classroom and administrative office, plus one space for every 100 square feet in the auditorium. Based on the City's requirements, 44 parking spaces are required for Taft Community School. The project proposes to provide 51 parking spaces, which includes ADA parking spaces. The ample supply of on-site parking will ensure that there are no parking impacts. The project also proposes a designated drop-off zone north of the building. Based on the proposed parking spaces to be provided on site and event plans, no parking impacts are projected on City streets.

INTRODUCTION

This report summarizes the results of the Transportation Impact Study (TIS) conducted for the proposed Taft Community School located at 903 Tenth Avenue, Redwood City, California. The school is situated in between the intersection of Bay Road/Tenth Avenue and Page Street/Tenth Avenue in the Friendly Acres neighborhood in Redwood City, California. The purpose of this traffic impact study is to evaluate the potential traffic impacts resulting from the development of the proposed project on the surrounding transportation system.

The project proposes to construct a two-story classroom building consisting of six classrooms, a new ballfield and new parking structure. Taft Community School currently serves grades Transitional Kinder (TK)-Grade 5 of surrounding neighborhood. The campus consists of five permanent one-story buildings, Multi-use building and the Family Center. The site is also home to PAL, the Police Activities League, which has a two-story building located on the corner of the Tenth Avenue and Bay Road.

Taft Community School has Classrooms for Preschool, Transitional Kindergarten, Kindergarten,1st-3rd Grade, 4th-5th Grade, 6th-8th Grade, Science Labs, Electives, Technology/Computer Lab, Special Day Class, Special Education, Resource Specialist, Occupational Therapy, Physical Education and After School Program activities.

The maximum enrollment for the elementary school is 416 students with approximately 55 teachers and staff. The schools may have year-round schedules (August-July) and serves students from the local area. The physical facilities are slated to include standard educational facilities including classrooms, library, offices, playgrounds, and parking lot. The hours of operation of school is from 8:15 a.m. to 12:15 p.m. for Kindergarten Group A, 9:40 a.m. to 2:00 p.m. for Kindergarten Group B. For Grades 1-3, operating hours are from 8:15 a.m. to 2:24 p.m. and for Grades 4-6 operating hours are from 8:15 a.m. to 2:45 p.m., Monday through Friday except Thursday. On Thursday, there will be an early dismissal for all the students. After school activities and events will also occur. Amongst the school, family center, and PAL, hours vary between 8:00 a.m. to 6:00 p.m. during the week. The drop off/pick-up location is provided within the school premises, which is accessible through Tenth Avenue. Access to the school is from Tenth Avenue and Eighth Avenue.

Taft Community School completed a school *Walk/Bike Audit and Field Rev*iew (Audit) with an accompanying repot completed in July 2017. Additionally, the surrounding neighborhood and school are included in the City of Redwood City's Livable Neighborhood Streets project (LNS), a street enhancement project that provided recommendations for community oriented streets that are accessible for bicycling, walking, and calming traffic in the Friendly Acres neighborhood with priorities in the Taft Community School area. Some of the recommendations are within the Taft Community School vicinity.

This chapter discusses the TIA purpose, project study area, analysis scenarios and levels of service methodology, and criteria used to identify significant impacts.

STUDY INTERSECTIONS AND SCENARIOS

TJKM evaluated traffic conditions at four study intersections during the a.m., midday and p.m. peak hours of a typical weekday. The peak period observed was between 7:00 a.m. - 9:00 a.m., 1:00 p.m. – 3:00 p.m.,

and 4:00 p.m. – 6:00 p.m. The highest single one-hour period recorded for the peak period is used in the analysis. The study periods and study intersections were selected and approved by the City of Redwood Staff. The study intersections and associated traffic controls are as follows:

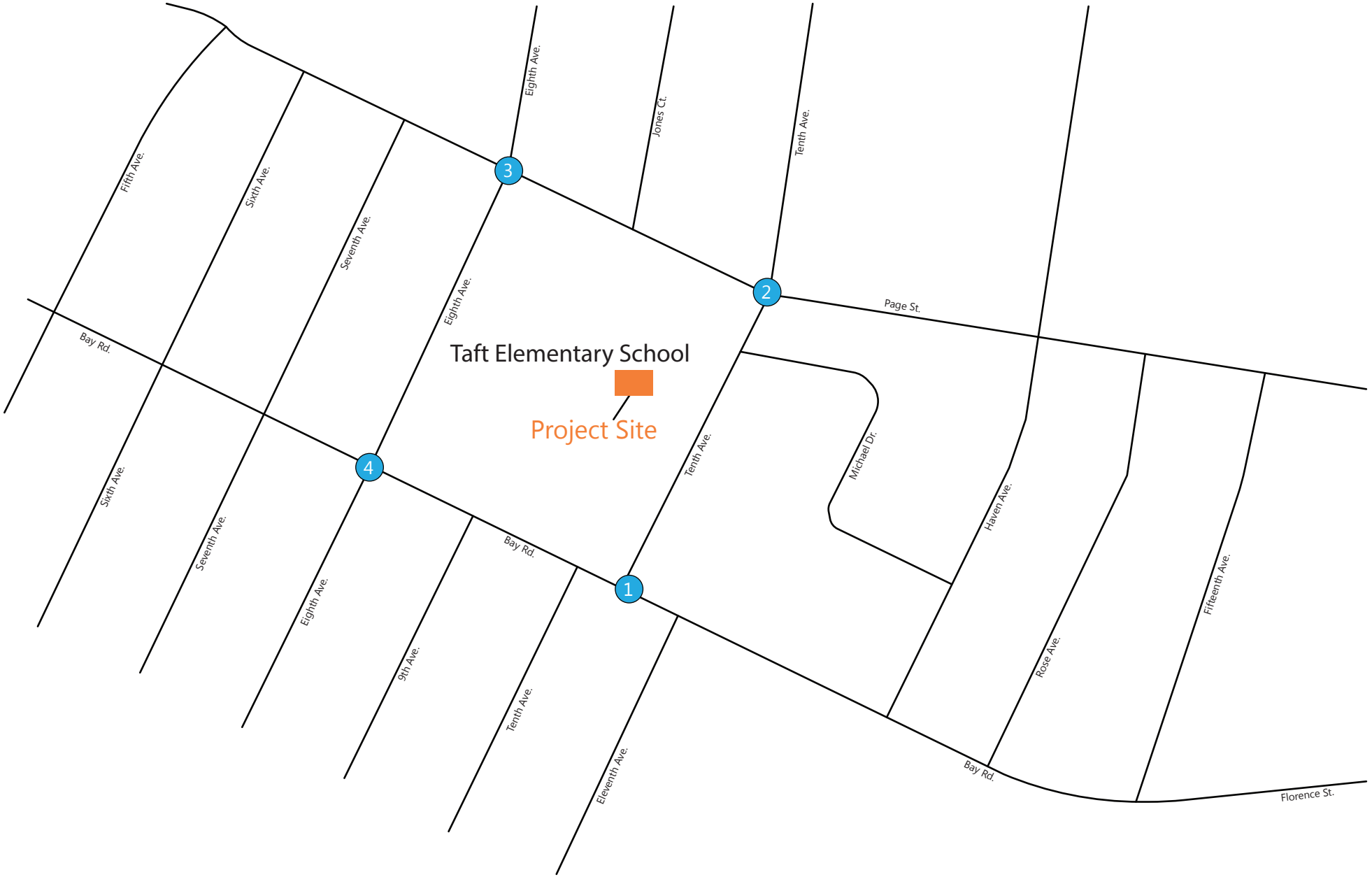
1. Bay Road and Tenth Avenue (One-Way Stop)
2. Tenth Avenue and Page Street (All-Way Stop)
3. Page Street and Eighth Avenue (Two-Way Stop)
4. Bay Road and Eighth Avenue (Two-Way Stop)

Figure 1 illustrates the study intersections and the vicinity map of the proposed project. **Figure 2** shows the proposed project site plan.

This study addresses the following two traffic scenarios, as reviewed and approved by the City of Redwood City:

- **Existing Conditions** – This scenario evaluates all the study locations based on existing traffic volumes, lane geometry and traffic controls.
- **Existing plus Project Conditions**– This scenario is identical to Existing Conditions, but with the addition of traffic from the proposed project.

Vicinity Map



LEGEND

X Study Intersections

N

TJKM

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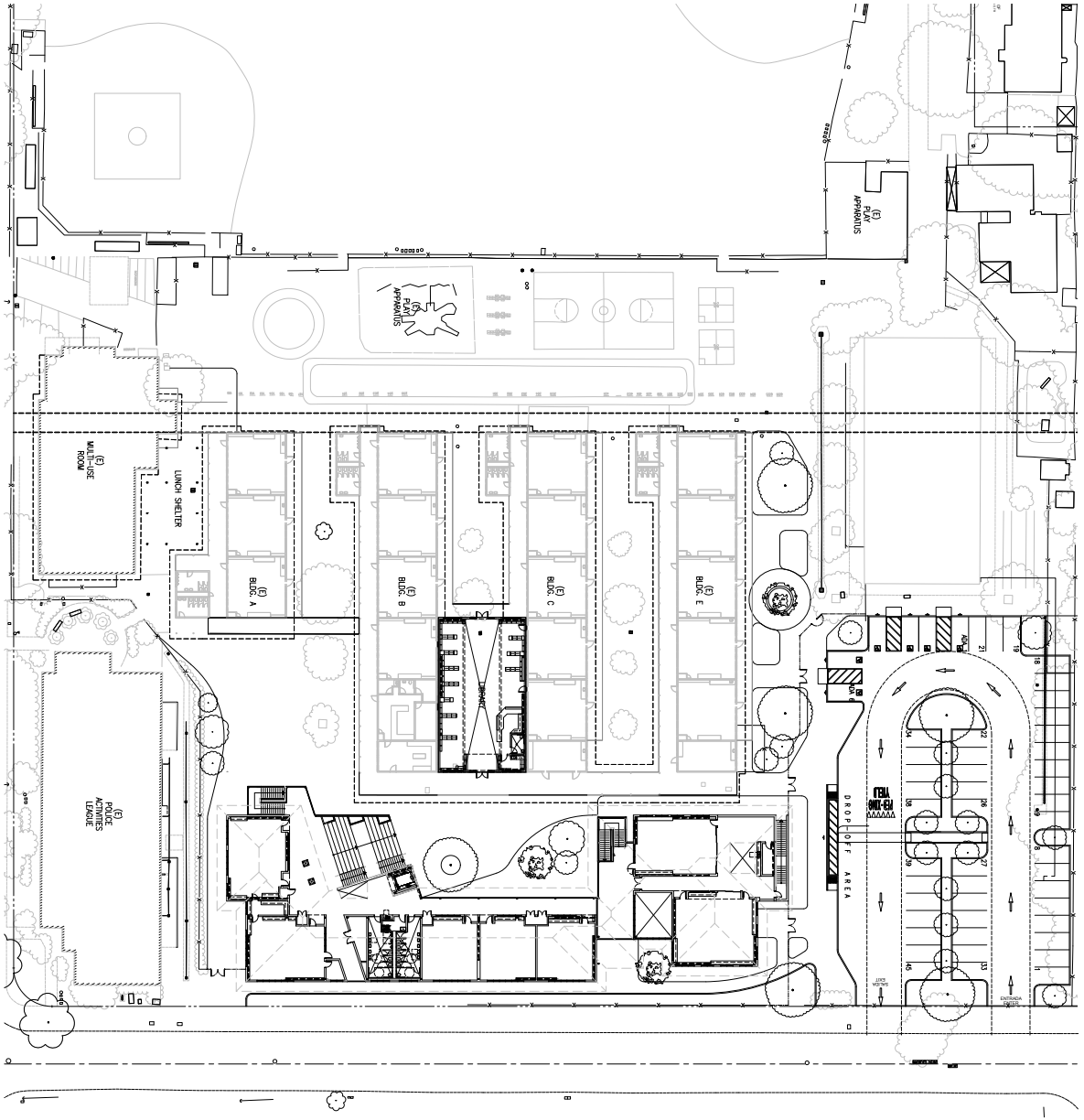
Figure 1

Project Site Plan



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TJKM

Figure 2

STUDY 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.

LEVEL OF SERVICE ANALYSIS METHODOLOGY

LOS is a qualitative measure that describes operational conditions as they relate to the traffic stream and perceptions by motorists and passengers. The LOS generally describes these conditions in terms of such factors as speed, travel time, delays, freedom to maneuver, traffic interruptions, comfort, convenience, and safety. The operational LOS are given letter designations from A to F, with A representing the best operating conditions (free-flow) and F the worst (severely congested flow with high delays). Intersections generally are the capacity-controlling locations with respect to traffic operations on arterial and collector streets in urban areas.

Unsignalized Intersections

The study intersections under stop control (unsignalized) were analyzed using the 2000 HCM Operations Methodology for unsignalized intersections described in Chapter 17 (HCM 2000). LOS ratings for stop-sign controlled intersections are based on the average control delay expressed in seconds per vehicle. At the side street, stop controlled intersections or two-way stop sign intersections; the control delay is calculated for each movement, not for the intersection as a whole. For approaches composed of a single lane, the control delay is computed as the average of all movements in that lane. The weighted average delay for the entire intersections is presented for all-way stop controlled intersections. **Table 1** summarizes the relationship between delay and LOS for unsignalized intersections. The delay ranges for unsignalized intersections are lower than for signalized intersections as drivers expect less delay at unsignalized intersections.

Each of the study intersections was analyzed using Synchro Version 9 software and HCM 2000 methodology. The LOS assessment under all scenarios is based on current traffic controls. The LOS methodology is described for unsignalized intersections in detail in **Appendix A**.

Table 1: Level of Service Definitions for Stop-Controlled Intersections

Level of Service	Description
A	Very low control delay less than 10 seconds per vehicle for each movement subject to delay.
B	Low control delay greater than 10 and up to 15 seconds per vehicle for each movement subject to delay.
C	Acceptable control delay greater than 15 and up to 25 seconds per vehicle for each movement subject to delay.
D	Tolerable control delay greater than 25 and up to 35 seconds per vehicle for each movement subject to delay.
E	Limit of tolerable control delay greater than 35 and up to 50 seconds per vehicle for each movement subject to delay.
F	Unacceptable control delay in excess of 50 seconds per vehicle for each movement subject to delay.

Source: Highway Capacity Manual 2000

Significant Impact Criteria and Level of Service Standards

The study intersections are located within City of Redwood City jurisdictions. LOS significance criteria are described for each jurisdiction below.

City of Redwood City

- The City of Redwood City General Plan contains the following transportation policy with respect to level of service: Program BE-55 / Level of Service Policy Evaluation: Evaluate Redwood City's current Level of Service (LOS) policies for motor vehicle circulation. The evaluation shall consider the following to ensure efficient traffic flow and balance multi-modal mobility goals:
    - Maintaining LOS D or better for motor vehicles in all areas of the city, except the Downtown area as defined by the Downtown Precise Plan. In Downtown, no minimum vehicular LOS standard will be maintained but vehicular LOS will be calculated and alternate LOS standards for other travel modes will be established.

In addition, as documented in the recent Stanford in Redwood City DEIR and consistent with other recent Redwood City EIRs, common City practice has been to consider traffic impacts at a study intersection as significant if the project or project plus cumulative development would cause:

- Operations at a signalized intersection to deteriorate from an acceptable level (LOS D or better) to an unacceptable level (LOS E or F); or
- Average delay at a signalized intersection operating at an unacceptable level (LOS E or F) to increase by five (5) or more seconds; or
- Operations at an unsignalized intersection to deteriorate from an acceptable level (LOS D or better) to an unacceptable level (LOS E or F); or
- Delay at an unsignalized intersection operating at an unacceptable level (LOS E or F) to increase by five or more seconds; and

- Traffic volumes at the intersection satisfy the Caltrans Peak Hour Volume Signal Warrant for traffic signal installation.

EXISTING CONDITIONS

This section describes existing conditions in the immediate project site vicinity, including roadway facilities, bicycle and pedestrian facilities, and available transit service. In addition, existing traffic volumes and operations are presented for the study intersections, including the results of LOS calculations.

EXISTING SETTING AND ROADWAY SYSTEM

Important roadways adjacent to the project site are discussed below:

Regional roadway facilities providing access to the Taft Community School include the US 101 freeway, as well as State Route 82 (SR 82, El Camino Real) and SR 84 (Woodside Road). Local roadways providing access include Page Street, Bay Road, Tenth Avenue, and Eighth Avenue. Descriptions of each roadway facility are presented below:

US 101 is a regionally significant freeway located north of the project site and provides regional access north through the City of San Francisco and south through the City of San Jose. Near the project site, US 101 is oriented in an approximately east-west direction with approximately 201,000 annual average daily traffic. The freeway consists of three mixed-flow lanes and one HOV lane in each direction. The HOV lanes are restricted to vehicles with two or more persons (carpool, vanpool, and buses) or motorcycles during weekday morning (5:00 a.m. to 9:00 a.m.) and evening (3:00 p.m. to 7:00 p.m.) commute periods. Interchanges at Woodside Road (SR 84) and Marsh Road provide local access to the project site.

State Route 82 (SR 82 El Camino Real) is a north-south, six-lane arterial that extends from San Francisco southerly to San Jose. Between Whipple Avenue and Woodside Road (SR 84) in Redwood City, the facility consists of four travel lanes.

State Route 84 (SR 84 Woodside Road) is a four-to six-lane east-west arterial that runs between I-280 in the south and US-101 to the north. Between Middlefield Road and Spring Street, it has two lanes in each direction and between Spring Street and Broadway, it has three lanes in the eastbound direction and two lanes in the westbound direction. On-street parking is prohibited along this roadway and the posted speed limit is 35 miles per hour (mph).

Bay Road is an undivided two-to-four lane local street that runs north-south from Beech Street in Redwood City east to Willow Road in Menlo Park. It runs parallel to US 101 within the study area. Bay Road has two lanes in each direction between Woodside Road and Third Avenue and one lane in each direction with a center turn lane from Third Avenue to Florence Street. It provides on-street parking and has a posted speed limit of 30 mph within the study area.

Page Street is a two-lane north-south local street as per the City of Redwood City's General Plan between Second Avenue and Marsh Road. It lies within the Friendly Acres neighborhood and is primarily fronted by residential land uses. It provides on-street parking and has a posted speed limit of 25 mph.

Tenth Avenue is a two-lane east-west local roadway that extends between Bay Road and Hoover Street. The posted speed limit on this roadway is 25 mph and provides access to residential neighborhoods. Project driveways are located on this roadway.

Eighth Avenue is a two-lane east-west local roadway that extends between Spring Street and Hoover Street. The posted speed limit on this roadway is 25 mph and provides access to residential neighborhoods.

EXISTING PEDESTRIAN FACILITIES

Walkability is defined as the ability to travel easily and safely between various origins and destinations without having to rely on automobiles or other motorized travel. The ideal "walkable" community includes wide sidewalks, a mix of land uses such as residential, employment, and shopping opportunities, a limited number of conflict points with vehicle traffic, and easy access to transit facilities and services.

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

In the project vicinity, all of the study intersections are controlled by a stop control. Crosswalks are provided on all the legs of the study intersections except at the intersection of Bay Road and Eighth Avenue. There are continuous sidewalks present on Page Street, Bay Road, Tenth Avenue and Eighth Avenue along both sides within the project vicinity. All the existing sidewalks are approximately 5 feet wide varying along the project area. There is adequate street lighting within the vicinity.

The existing pedestrian facilities in the study area are shown in **Figure 3.** Existing peak hour pedestrian counts are provided in **Appendix B.**

EXISTING BICYCLE FACILITIES

Bicycle facilities include the following:

- Bike Paths (Class I) – Paved trails that are separated from roadways
- Bike Lanes (Class II) – Lanes on roadways designated for use by bicycles through striping, pavement legends, and signs
- Bike Routes (Class III) – Designated roadways for bicycle use by signs or other markings which may or may not include additional pavement width for cyclists

Currently, there are an existing Class II bike lanes available on Bay Road that runs from Rose Avenue towards Florence Street. There are adequate signage/markings for the bicyclists to maneuver without confusion. Bicycle facilities are not provided on almost all the roadways i.e Page Street, Tenth Avenue and Eighth Avenue within the vicinity of the project site. According to the Redwood City Comprehensive Bicycle and Pedestrian Plan, there are no bicycle facilities proposed in the vicinity of the project site. The existing bicycle facilities in the study area are shown in **Figure 4**. Existing peak hour bicycle counts are provided in **Appendix B**.

EXISTING TRANSIT FACILITIES

SamTrans operate the bus services throughout San Mateo County and into parts of San Francisco and Palo Alto. There are three bus services operated in the immediate vicinity of the project site. Route 79, Route 270 and Route 276 provides access to the project site. There are six bus stops in the immediate vicinity of the project site; all the bus stops are located on Bay Road.

Route 79 provides weekday service between Florence Street/17th Avenue and Kennedy School. The route provides service between 7:03 a.m. and 7:41 a.m., during morning peak period, between 2:00 p.m. and 6:15 p.m. during evening peak period.

Route 270 provides weekday and weekend service between Redwood City Transit Center and Haven Avenue/Bay Road. The route provides service between 6:30 a.m. and 6:30 p.m., during weekdays and service between 7:30 a.m. and 6:30 p.m. during weekends.

Route 276 provides weekday and weekend service between Redwood City Transit Center and Florence Street/17th Avenue. The route provides service between 6:00 a.m. and 6:00 p.m., during weekdays and service between 6:20 a.m. and 6:20 p.m. during weekends.

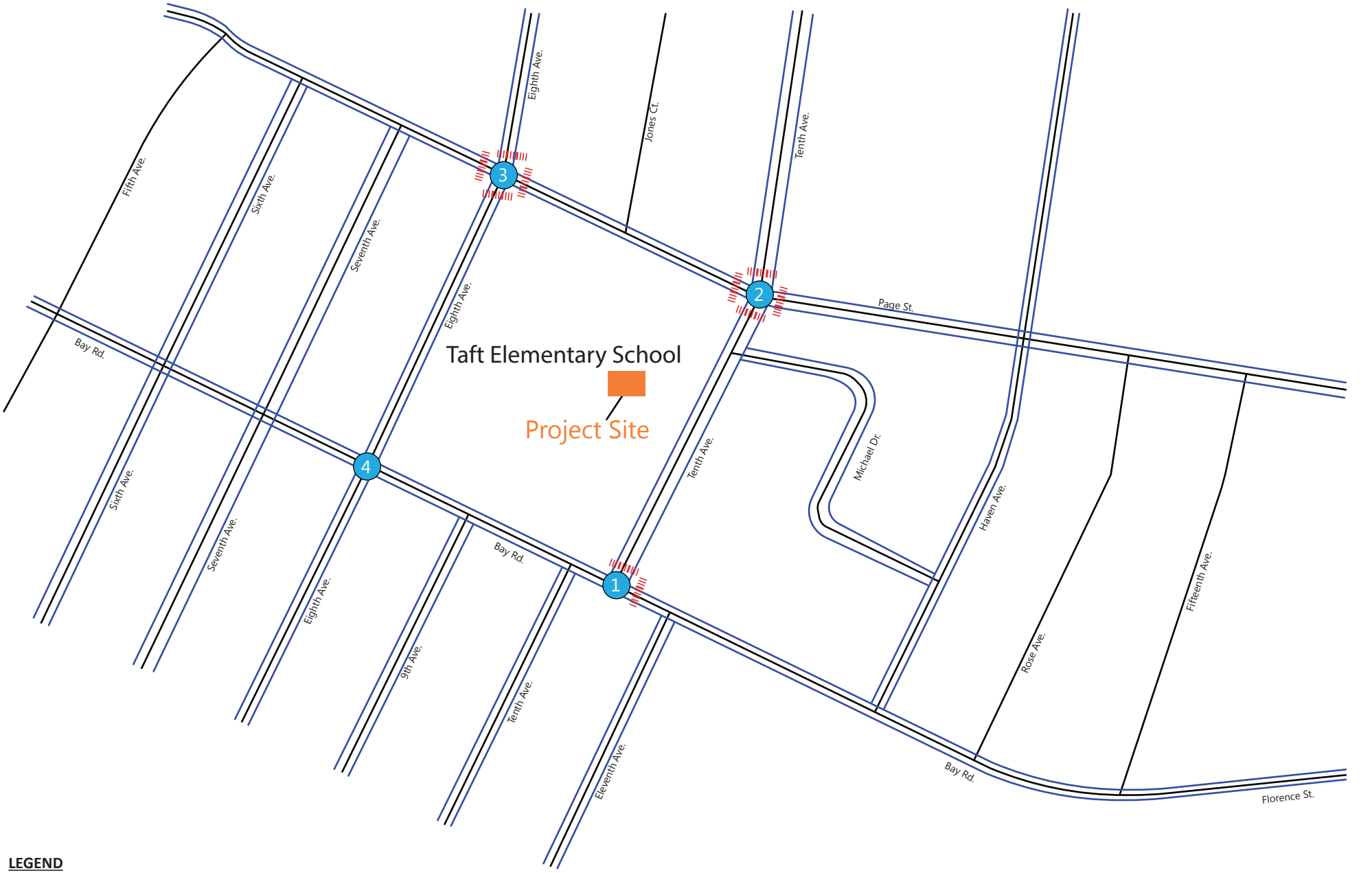
Table 2 describes the services and frequency for the transit services. The existing transit facilities in the study area are shown in **Figure 5.**

Table 2: Existing Transit Services

Route #	From	To	Weekdays		Weekend	
			Operating Hours	Headway (minutes)	Operating Hours	Headway (minutes)
79	Florence Street/17th Avenue	Kennedy School	7:03 a.m. – 7:41 a.m. 2:00 p.m. – 6:15 p.m.	38 2-120	…	…
270	Redwood City Transit Center	Haven Avenue/Bay Road	6:30 a.m.-6:30 p.m.	60	7:30 a.m. – 6:30 p.m.	60
276	Redwood City Transit Center	Florence Street/17th Avenue	6:00 a.m. – 6:00 p.m.	60	6:20 a.m. – 6:20 p.m.	60

Source: www.samtrans.com

Existing Pedestrian Facilities



Existing Bicycle Facilities

TJKM

Existing Transit Facilities

LEGEND

- X — Study Intersections
- Bus-Stop
- Route 270 & 276
- Route 79

N

TJKM

081 - 041 (T3)

Figure 5

Existing Intersection Volumes and Lane Configurations

The existing operations of the study intersections were evaluated for the highest one-hour volume during the weekday morning, midday and evening peak periods. Turning movement counts for vehicles, bicycles, and pedestrians were conducted during typical weekday a.m. peak period (7:00-9:00 a.m.), midday peak periods (1:00-3:00 p.m.) ad p.m. peak period (4:00-6:00 p.m.) at the study intersections on Thursday, October 5th, 2017. **Appendix B** includes all the data sheets for the collected vehicle, bicycle, and pedestrian counts. **Figure 6** illustrates the existing lane geometry and traffic control at the study intersections. **Figure 7** illustrates the existing conditions peak hour traffic volumes at the study intersections.

Existing Parking Conditions

Taft Community School has 33 parking stalls on-site. Parking is provided for teachers, administrative staff, visitors, and students. On street parking is not allowed on Tenth Avenue during the school operation hours. The bus loading zone is on Eighth Avenue during school operation hours.

Field Observations

TJKM conducted the field observations within the vicinity of Taft Community School. Elementary School and Family Center operates Monday through Friday from 8:00 a.m. to 4:00 p.m. Drop-off & Pick-up locations are situated north side of building on Tenth Avenue. Vehicles enter and exit through Tenth Avenue. Most of the parents parked the cars in and around adjacent residential streets, i.e Page Street, Bay Road, and then walk to school to drop/pick the children. During the school operational hours, the traffic on Page Street, Tenth Avenue and Eighth Avenue is relatively high.

The Audit and LNS revealed Bay Road has a large number of pedestrians with heavy crossing at Bay Road/Tenth Avenue and Bay Road/Eight Avenue. Due to the large volume of vehicles in the area during the school peak drop off and pick up time, bad driver behavior was noted, Though there are adequate signage, crosswalks and a crossing guard (Bay Road/Tenth Avenue), drivers made illegal turning movements or did not stop for pedestrians. In addition, heavy drop off and pick up were also noted on Eighth Avenue.

INTERSECTION LEVEL OF SERVICE ANALYSIS – EXISTING CONDITIONS

Existing intersection lane configurations and peak hour turning movement volumes were used to calculate the levels of service for the study intersections during each peak hour. The peak hour factor based on the counts was used for all study intersections for the existing conditions analysis.

The study intersections were analyzed using the 2000 Highway Capacity Manual (HCM 2000) methodology by using Synchro 9.0 software program. The results of the Level of Service (LOS) analysis using the Synchro 9.0 software program for Existing Conditions are summarized in **Table 3**. **Appendix C** contains the corresponding calculation sheets.

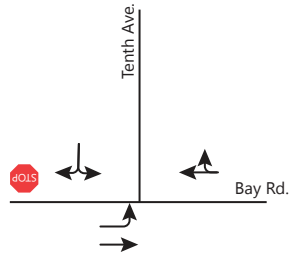
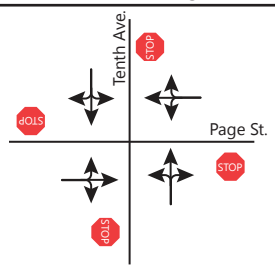
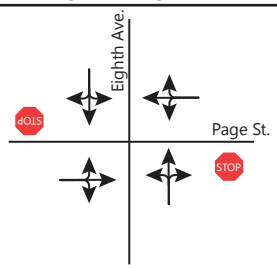
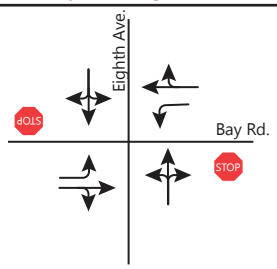
Under this scenario, all the intersections operate within City of Redwood City standards Level of Service (LOS) D or better during the a.m., midday and p.m. peak hours.

Table 3: Intersection Level of Service Analysis – Existing Conditions

#	Study Intersection	Control	Peak Hour[1]	Average Delay[2]	LOS[3]
1	Bay Road/Tenth Avenue	One-Way Stop	AM	17.1	C
			Midday	11.4	B
			PM	14.1	B
2	Tenth Avenue/Page Street	All-Way Stop	AM	7.9	A
			Midday	7.6	A
			PM	8.0	A
3	Page Street/Eighth Avenue	Two-Way Stop	AM	19.4	C
			Midday	13.9	B
			PM	10.9	B
4	Bay Road/Eighth Avenue	Two-Way Stop	AM	17.4	C
			Midday	13.4	B
			PM	13.9	B

Notes:
[1]AM – morning peak hour (between 7 and 9 a.m.), Midday-midday peak hour (between 1 and 3 p.m.), and PM-evening peak hour (between 4 and 6 p.m.)
[2]Total control delay for the worst movement is presented for side-street stop-controlled intersections.
[3]LOS – Level of Service calculations conducted using the Synchro 9.0 level of service analysis software package, which applies the methodology described in the 2000 HCM.

Existing Conditions Lane Geometry and Traffic Controls

Intersection #1 Bay Rd. / Tenth Ave.	**Intersection #2** Tenth Ave. / Page St.	**Intersection #3** Page St. / Eighth Ave.	**Intersection #4** Bay Rd. / Eighth Ave.
			

LEGEND

X Study Intersections

STOP Stop Signs

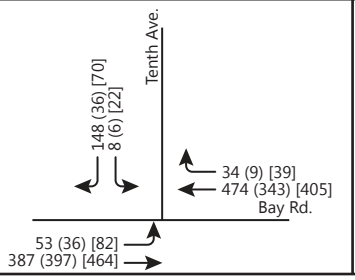
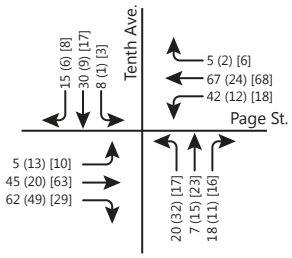
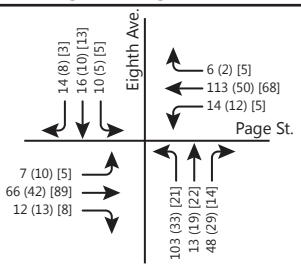
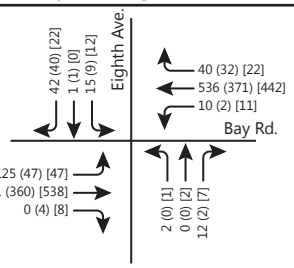
N

TJKM

081 - 041 (T3)

Figure 6

Existing Conditions Peak Hour Traffic Volumes

Intersection #1 Bay Rd. / Tenth Ave.	**Intersection #2** Tenth Ave. / Page St.	**Intersection #3** Page St. / Eighth Ave.	**Intersection #4** Bay Rd. / Eighth Ave.
			

LEGEND

X Study Intersections

XX AM Peak Hour Volumes
(XX) Midday Peak Hour Volumes
[XX] PM Peak Hour Volumes

N

TJKM

EXISTING PLUS PROJECT CONDITIONS

The impacts of the proposed project on the transportation system are discussed in this chapter. First, the method used to estimate the amount of traffic generated by the project is described. Then, the results of the level of service calculations for Existing plus Project Conditions are presented. (Existing plus Project Conditions is defined as Existing Conditions plus traffic generated by the proposed project). A comparison of intersections under Existing plus Project Conditions and Existing Conditions is presented and the impacts of the project on the study intersections are discussed.

The amount of traffic added to the roadway system by the proposed development is estimated using a three-step process.

- Trip Generation – Estimates the amount of traffic added to the roadway network,
- Trip Distribution – Estimates the direction of travel to and from the project site,
- Trip Assignment – The new trips are assigned to specific street segments and intersection turning movements.

PROJECT TRIP GENERATION

TJKM developed estimated project trip generation for the proposed project based on published trip generation rates from the ITE publication *Trip Generation Manual (9th Edition)*. TJKM used published trip rates for the ITE Land Use Elementary School (ITE Code 520). **Table 4** shows the trip generation expected to be generated by the proposed project. TJKM applied 20 percent trip discounts to the proposed project for buses, pedestrian and bicycle uses. The project is expected to generate approximately 487 daily trips, 150 weekday a.m. peak hour trips (83 inbound trips, 67 outbound trips) and 50 weekday p.m. peak hour trips (24 inbound trips, 26 outbound trips). It should be noted that the a.m. peak hour trips has been used for midday peak also due to the similar travel patterns.

Table 4: Project Trip Generation

Land Use	*Size*	Daily		AM Peak					PM Peak				
		Rate	*Trips*	*Rate*	*In:Out (%)*	*In*	*Out*	*Total*	*Rate*	*In:Out (%)*	*In*	*Out*	*Total*
Elementary School (ITE Code 520)	416 Students	1.29	537	0.45	55:45	103	84	187	0.15	49:51	30	32	62
20 Percent-Bus/Ped/Bike reduction			50			20	17	37			6	6	12
Total Trips			**487**			**83**	**67**	**150**			**24**	**26**	**50**

Notes: Source - Institute of Transportation Engineers (ITE) *Trip Generation Manual, 9th Edition*, 2012

PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

Trip distribution is a process that determines in what proportion vehicles would be expected to travel between the project site and various destinations outside the project study area. Trip assignment also determines the various routes that vehicles would take from the project site to each destination using the calculated trip distribution. Trip distribution assumptions for the proposed project were developed based on existing travel patterns and knowledge of the study area.

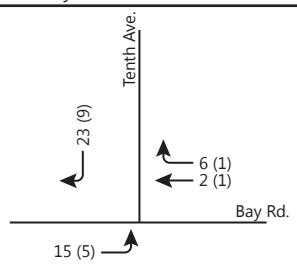
The distribution assumptions are as follows:

- 30 percent to/from south of Bay Road
- 25 percent to/from Fifth Avenue
- 10 percent to/from north of Bay Road
- 8 percent to/from east of Eighth Avenue
- 8 percent to/from west of Eighth Avenue
- 8 percent to/from Haven Avenue
- 6 percent to/from Tenth Avenue
- 5 percent to/from Page Street

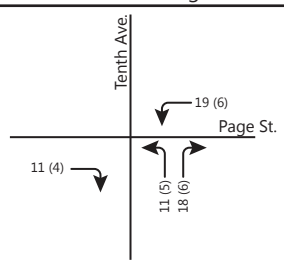
Project trips were assigned to the roadway network based on the trip distribution patterns discussed above. **Figure 8** illustrates the a.m., midday and p.m. peak hour project trips assigned to each turning movement at the study intersections. The assigned project trips were then added to traffic volumes under Existing Conditions to generate Existing plus project Conditions traffic volumes.

Project Trip Assignment and Distribution

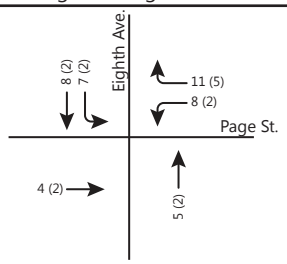
Intersection #1
Bay Rd. / Tenth Ave.



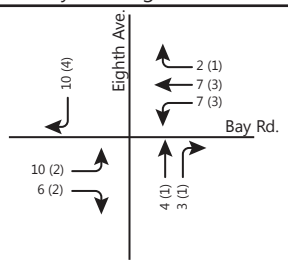
Intersection #2
Tenth Ave. / Page St.



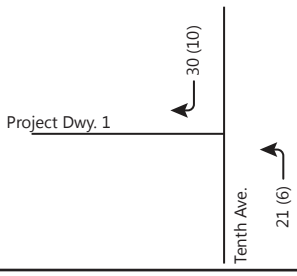
Intersection #3
Page St. / Eighth Ave.



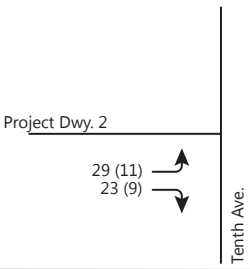
Intersection #4
Bay Rd. / Eighth Ave.



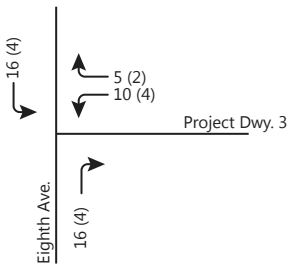
Intersection #5
Tenth Ave. / Project Dwy. 1

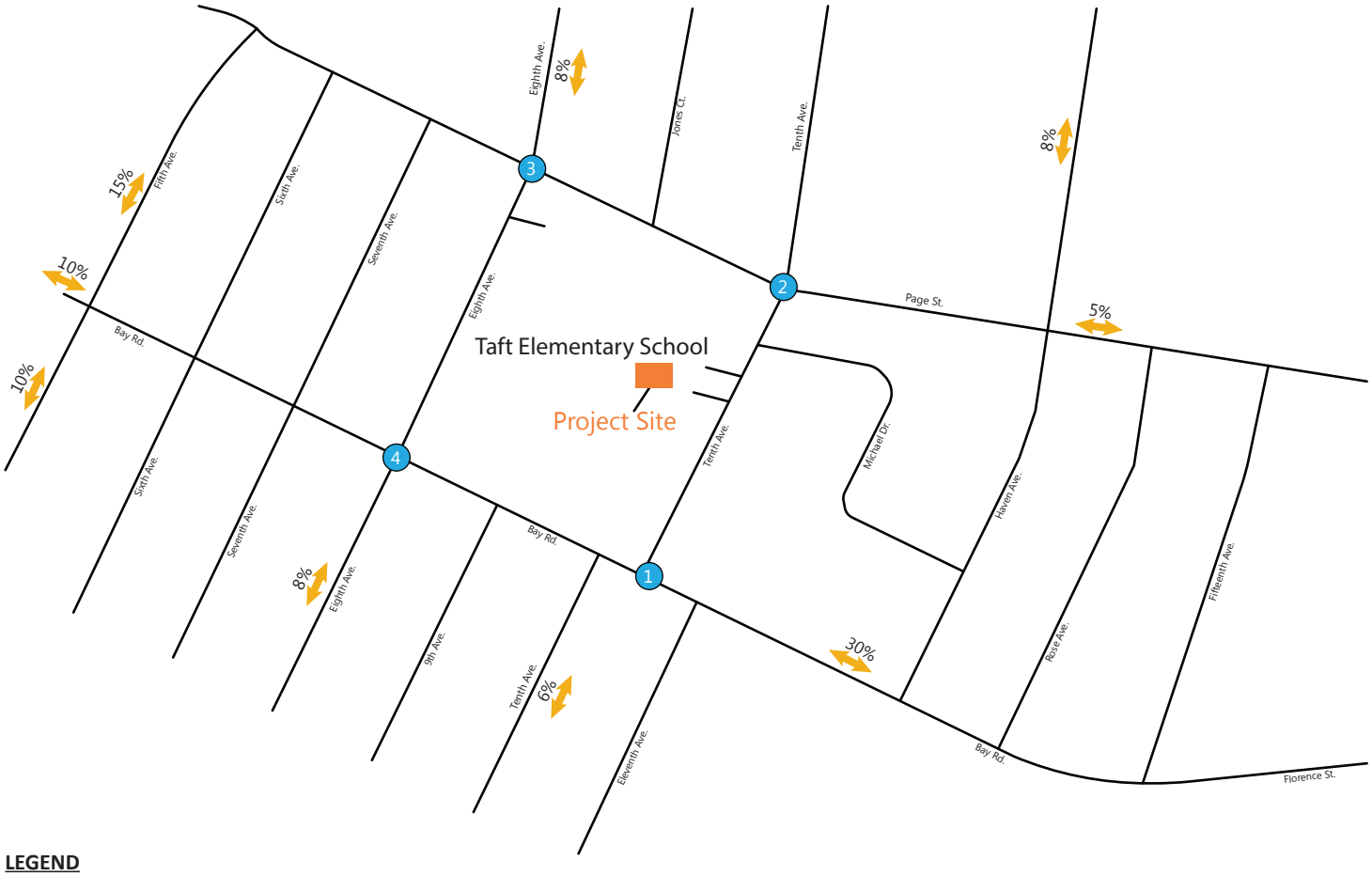


Intersection #6
Tenth Ave. / Project Dwy. 2



Intersection #7
Eighth Ave. / Project Dwy. 3





LEGEND

X — Study Intersections
XX — AM Peak Hour Trips
(XX) — PM Peak Hour Trips
X % — Trip Distribution

N

TJKM

Intersection Level of Service Analysis – Existing plus Project Conditions

Intersection levels of service were calculated with the new traffic added by the proposed project to existing volumes to evaluate the operating conditions of the intersections and identify potential impacts to the roadway system. The results of the intersection level of service calculations for Existing plus Project Conditions are presented in **Table 5**. **Appendix D** contains the corresponding calculation sheets. The results for Existing Conditions are included for comparison purpose, along with the projected increases in delay. The changes in delay between Existing and Existing plus Project Conditions are used to identify significant impacts. **Figure 9** shows projected turning movement volumes at the study intersections for Existing plus Project Conditions.

Under this scenario, all the intersections operate within City of Redwood City standards Level of Service (LOS) D or better during a.m., midday and p.m. peak hours. Based on the City of Redwood City impact criteria the project is expected to have a less-than-significant impact at all the study intersections.

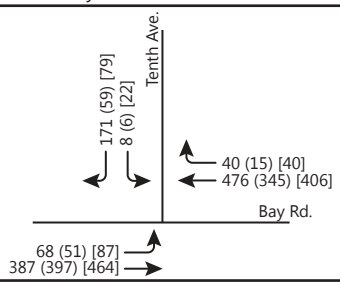
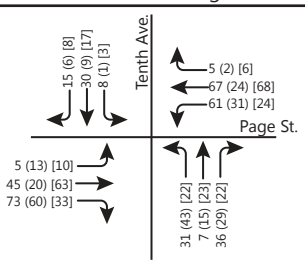
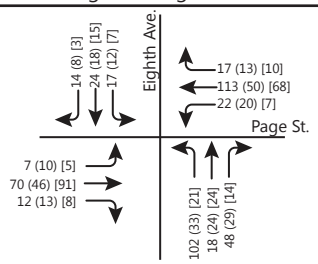
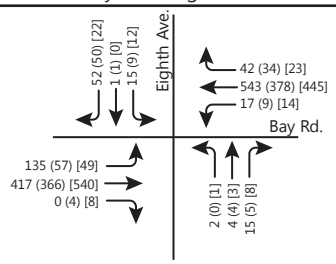
Table 5: Intersection Level of Service Analysis – Existing plus Project Conditions

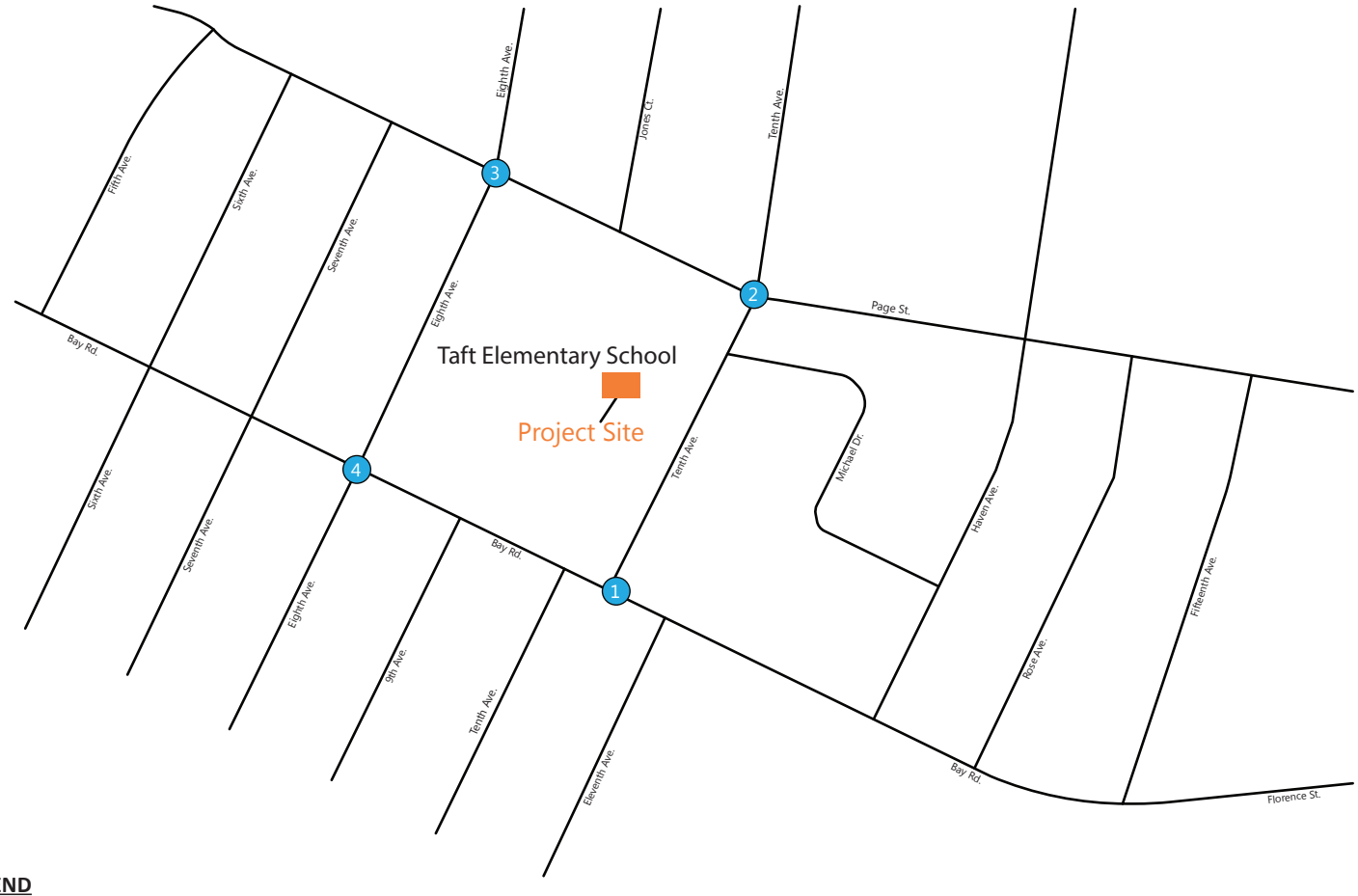
#	Study Intersection	Control	Peak Hour[1]	Existing Conditions		Existing with Project Conditions		Change in Delay[4] (sec)
				Average Delay[2]	LOS[3]	Average Delay[2]	LOS[3]	
1	Bay Road/Tenth Avenue	One-Way Stop	AM	17.1	C	18.3	C	1.20
			Midday	11.4	B	11.7	B	0.30
			PM	14.1	B	14.3	B	0.20
2	Tenth Avenue/Page Street	All-Way Stop	AM	7.9	A	8.2	A	0.30
			Midday	7.6	A	8.0	A	0.40
			PM	8.0	A	8.1	A	0.10
3	Page Street/Eighth Avenue	Two-Way Stop	AM	19.4	C	22.2	C	2.80
			Midday	13.9	B	14.9	B	1.00
			PM	10.9	B	11.1	B	0.20
4	Bay Road/Eighth Avenue	Two-Way Stop	AM	17.4	C	18.4	C	1.00
			Midday	13.4	B	13.9	B	0.50
			PM	13.9	B	14.1	B	0.20

Notes:
[1]AM – morning peak hour (between 7 and 9 a.m.), Midday-midday peak hour (between 1 and 3 p.m.), and PM-evening peak hour (between 4 and 6 p.m.)
[2]Total control delay for the worst movement is presented for side-street stop-controlled intersections.
[3]LOS – Level of Service calculations conducted using the Synchro 9.0 level of service analysis software package, which applies the methodology described in the 2000 HCM.
[4]Change in delay between Existing and Existing plus Project Conditions

The LNS and Audit discuss a recommendation for an all-way stop control at Page Street/Eighth Avenue. The City of Redwood City has received community requests for this and have determined an all-way stop is not warranted at this time, based on average daily traffic volumes. The City will continue to monitor the intersection need for an all way stop, though analysis does not warrant for this.

Existing plus Project Conditions Peak Hour Traffic Volumes

Intersection #1 Bay Rd. / Tenth Ave.	**Intersection #2** Tenth Ave. / Page St.	**Intersection #3** Page St. / Eighth Ave.	**Intersection #4** Bay Rd. / Eighth Ave.
			



LEGEND

X Study Intersections

XX AM Peak Hour Volumes
(XX) Midday Peak Hour Volumes
[XX] PM Peak Hour Volumes

N

TJKM

QUEUING AND LEVEL OF SERVICE ANALYSIS AT PROJECT DRIVEWAY

TJKM conducted a vehicle queuing and LOS analysis at the proposed project driveways on Tenth Avenue. The 95th percentile (maximum) queues were analyzed using the HCM 2000 Queue methodology contained in Synchro 9.0 software for the project driveways. As shown in **Table 6**, under Existing plus Project Conditions, the project driveways are expected to operate at an acceptable level of service. In addition, the 95th percentile queueing at the outbound approach of the project driveways are expected to be minimal.

Table 6: 95th Percentile Queues and Level of Service at Project Driveway

#	Study Intersection	Existing Plus Project Conditions								
		AM			MID			PM		
		Delay[1]	LOS[2]	95th percentile Queue[3] (feet)	Delay[1]	LOS[2]	95th percentile Queue[3] (feet)	Delay[1]	LOS[2]	95th percentile Queue[3] (feet)
1	Tenth Avenue/Project Driveway	9.7	A	20	9.3	A	20	9.0	A	20
2	Eighth Avenue/Project Driveway	9.9	A	20	9.3	A	20	8.9	A	20

Notes:
[1] Delay = Average control delay in seconds per vehicle
[2] LOS = Level of Service
[3] Reported values of 95th percentile Queues are for the outbound movements at the project driveways

SITE ACCESS AND ON-SITE CIRCULATION AND OTHER IMPACTS

This section analyzes site access and internal circulation based on the site plan presented in **Figure 2**. TJKM reviewed internal and external access for the project site for passenger vehicles, and emergency vehicles.

On-Site Circulation

TJKM reviewed the proposed project site plan to evaluate on-site access to the project. **Figure 2** shows the proposed site plan for the project indicating the location of the project driveways and the internal circulation system. The access to the project site will be via two driveways on Tenth Avenue: one driveway for entry only and the other for exit only. The spacing between the entry & exit driveways are approximately 180 feet. One more drop-off/pick-up is along the roadway on Eighth Avenue.

Based on the evaluation, the driveways are expected to be adequate for passenger vehicles accessing the site. **Figure 8** shows the project trips at the driveways. The one-way circulation pattern on-site is advantageous in several ways: project traffic is divided over two separate driveways rather than focused on a single location or street. The one-way flow simplifies on-site passenger loading and unloading, as it will be simpler for guardians dropping off and picking up students to park their vehicles and exit parking spaces with conflicting traffic coming from only one direction. Access at the driveways is also simplified and becomes more efficient.

TJKM also examined the project site plan (**Figure 2**) in order to evaluate the adequacy of on-site vehicles, vans and emergency vehicles circulation. The internal circulation was reviewed for issues related to queueing, turning radii, and safety and circulation aisles. The circulation aisle accommodates one-way travel and the turning radii appears to be adequate for the passenger vehicles, vans and emergency vehicles. Emergency vehicles can access the project via the driveway that was situated on Tenth Avenue. Overall, the proposed on-site vehicle circulation is excellent and should not result in any significant impacts either on-site or on City streets. TJKM recommends the installation of Stop control at the project driveways with appropriate pavement delineation and signing to enhance traffic safety and operations at the driveway.

Pedestrian Access

Pedestrian access to the project site will be facilitated by existing sidewalks on Page Street, Bay Road, Tenth Avenue and Eighth Avenue. Crosswalks are provided on all the legs of the study intersections except at the intersection of Bay Road and Eighth Avenue. All the existing sidewalks are approximately 5 feet wide varying along the project area. There is adequate street lighting in the vicinity.

A significant impact occurs if the proposed project conflicts with applicable or adopted policies, plans or programs related to pedestrians facilities or otherwise decrease the performance or safety of pedestrian facilities. The proposed project will not result in any significant impacts to existing or planned pedestrian facilities in the immediate vicinity of the project because of the absence of such conflicts. However, the project is expected to generate demand for sidewalks to allow pedestrians to access nearby bus stops,

and adjacent land uses. To accommodate all users of the street system and provide a complete and connected pedestrian facility between the project site and transit service, it is recommended that sidewalks be provided along the project frontage as per the City of Redwood City standards and the design should meet ADA requirements for a comfortable walking environment.

The Audit and LNS recommends improvements to enhance the pedestrian experience. The installation of high visibility crosswalks and curb extensions at the study intersections and additional signage would improve pedestrian safety in the area. At the intersection of Bay Road/Eighth Avenue and Bay Road/Tenth Avenue, Rapid Rectangular Flashing Beacons (RRFB) are recommended. Excerpts of the Audit and LNS details are in **Appendix E.**

Bicycle Access

In terms of bicycle access to the project site, there is an existing Class II bike lanes on Bay Road from Rose Avenue towards Florence Street. Bicycle facilities are not provided on all the roadways i.e Page Street, Tenth Avenue and Eighth Avenue along both sides in the vicinity of the project site. There are adequate signage/markings for the bicyclists to maneuver without confusion. Overall, existing bicycle facilities provide adequate connectivity between the proposed project site and the adjacent neighborhoods. An impact to bicyclists occurs if the proposed project disrupt existing bicycle facilities; or conflict or create inconsistencies with adopted bicycle system plans, guidelines, and policies. A significant impact occurs if the proposed project conflicts with applicable or adopted policies, plans or programs related to bicycle facilities or otherwise decrease the performance or safety of bicycle facilities. The proposed project does not conflict with existing and planned bicycle facilities, therefore, the impact to bicycle facilities is *less-than-significant*.

The LNS recommends a Class II bike lane on Bay Road between Fourth Avenue and Fifteen Avenue and on Florence Street between Fifteen Avenue and Seventeenth Avenue. The installation of this improvement would enhance the safety and separation for bicyclists to travel to school and connecting north and south bicycle commuters. Excerpts of the Audit and LNS details are in **Appendix E.**

Transit

The proposed project will generate very few trips via transit services, which can be accommodated by the existing transit capacity and hence the project is anticipated to have a *less-than-significant* impact on transit facilities.

Sight Distance Analysis

Sight distance is evaluated to determine if a driver will have adequate visibility to enter a roadway safely without resulting in a conflict with traffic already on the roadway. The project access points should be free and clear of any obstructions that would materially and adversely affect sight distance, thereby ensuring that exiting vehicles can see pedestrians on the sidewalk and other vehicles traveling on adjacent roadways. Landscaping and parking should not conflict with a driver's ability to locate a gap in traffic and see oncoming pedestrians and bicyclists. Adequate corner sight distance (sight distance triangles) should be provided at all site access points in accordance with the City's standards. Sight distance triangles

should be measured approximately 15 feet back from the traveled way. Sight distance requirements vary depending on the roadway speeds. The speed limit on Tenth Avenue is 25 mph. According to the Highway Design Manual (HDM), Chapter 200, 2014, the required minimum stopping sight distance for design speed of 25 mph is 150 feet. The line of sight for vehicles exiting the driveways and vehicles travelling northbound and southbound on Bay Road are clear and visible. The project does not substantially increase hazards due to any design features.

PARKING

Based on the project site plan dated November 15, 2017 (**Figure 2**), a total of 51 parking spaces are provided for the proposed project, which includes auto parking and ADA parking. The City of Redwood City Municipal Code requires schools enrolling students in the tenth (10th) grade or below shall provide one space for each classroom and administrative office, plus one space for every 100 square feet in the auditorium. Based on the City's requirements, 44 parking spaces are required for Taft Community School. The project proposes to provide 51 parking spaces, which includes 6 accessible stalls. The ample supply of on-site parking will ensure that there are no parking impacts. There should be minimal impact on the adjoining neighborhood either from a circulation or parking standpoint.

CONCLUSION

- The proposed project is expected to generate 487 daily vehicular trips in which 150 weekday a.m. peak hour trips (83 inbound trips, 67 outbound trips) and 50 weekday p.m. peak hour trips (24 inbound trips, 26 outbound trips).
- Under Existing Conditions, all intersections operates within the applicable jurisdictional standards of City of Redwood City (LOS D) or better during the a.m., midday, and p.m. peak hours.
- Under Existing plus Project Conditions, all intersections operates within the applicable jurisdictional standards of City of Redwood City (LOS D) or better during the a.m., midday, and p.m. peak hours. Based on the City of Redwood City impact criteria the project is expected to have a less-than-significant impact at all the study intersections.
- The proposed project does not create a significant impact on the expected left-turn or right-turn queues at the study intersection. The project driveways are expected to operate at an acceptable LOS and the 95th percentile queueing at the outbound approach of project driveways is expected to be minimal.
- The proposed project does not conflict with existing and planned pedestrian or bicycle facilities. There are six bus stops in the immediate vicinity of the project site; all the bus stops are located on Bay Road. The transit service within the immediate vicinity of the project site operates well below capacity, and additional trips generated by the proposed project could be accommodated by existing bus services. Therefore the impacts to pedestrian, bicycle and transit facilities are *less-than-significant*.
- The proposed project's access will be via Tenth Avenue and Eighth Avenue. Based on the evaluation, the proposed on-site vehicle circulation is adequate and should not result in any significant traffic operations issues.
- As per the Redwood City requirements, the total parking required by the project is 44 parking stalls. The project provides a total of 51 parking stalls. Therefore, no parking impacts are projected on City streets.
- The Livable Neighborhood Streets project and Taft Community school Walk/Bike Audit and Field Review has recommendations that enhance the pedestrian and bicycle access to and from Taft School.

Appendix A –Level of Service Methodology

APPENDIX A
LEVEL OF SERVICE

The description and procedures for calculating capacity and level of service (LOS) are found in Transportation Research Board, *Highway Capacity Manual 2000*. *Highway Capacity Manual 2000* represents the latest research on capacity and quality of service for transportation facilities.

Quality of service requires quantitative measures to characterize operational conditions within a traffic stream. LOS is a quality measure describing operational conditions within a traffic stream, generally in terms of such service measures as speed and travel time, freedom to maneuver, traffic interruptions, and comfort and convenience.

Six levels of service are defined for each type of facility that has analysis procedures available. Letters designate each level, from A to F, with LOS A representing the best operating conditions and LOS F the worst. Each LOS represents a range of operating conditions and the driver's perception of these conditions. Safety is not included in the measures that establish service levels.

A general description of service levels for various types of facilities is shown in Table A-I

Table A-I: Level of Service Description

Facility Type	***Uninterrupted Flow***	***Interrupted Flow***
	Freeways Multi-lane Highways Two-lane Highways Urban Streets	Signalized Intersections Unsignalized Intersections Two-way Stop Control All-way Stop Control
LOS		
A	Free-flow	Very low delay.
B	Stable flow. Presence of other users noticeable.	Low delay.
C	Stable flow. Comfort and convenience starts to decline.	Acceptable delay.
D	High-density stable flow.	Tolerable delay.
E	Unstable flow.	Limit of acceptable delay.
F	Forced or breakdown flow.	Unacceptable delay

Source: *Highway Capacity Manual 2000*

Urban Streets

The term "urban streets" refers to urban arterials and collectors, including those in downtown areas.

Arterial streets are roads that primarily serve longer through trips. However, providing access to abutting commercial and residential land uses is also an important function of arterials.
Collector streets provide both land access and traffic circulation within residential, commercial and industrial areas. Their access function is more important than that of arterials, and unlike arterials their operation is not always dominated by traffic signals.

Downtown streets are signalized facilities that often resemble arterials. They not only move through traffic but also provide access to local businesses for passenger cars, transit buses, and trucks.

Pedestrian conflicts and lane obstructions created by stopping or standing buses, trucks and parking vehicles that cause turbulence in the traffic flow are typical of downtown streets.

The speed of vehicles on urban streets is influenced by three main factors, street environment, interaction among vehicles and traffic control. As a result, these factors also affect quality of service.

The street environment includes the geometric characteristics of the facility, the character of roadside activity and adjacent land uses. Thus, the environment reflects the number and width of lanes, type of median, driveway density, spacing between signalized intersections, existence of parking, level of pedestrian activity and speed limit.

The interaction among vehicles is determined by traffic density, the proportion of trucks and buses, and turning movements. This interaction affects the operation of vehicles at intersections and, to a lesser extent, between signals.

Traffic control (including signals and signs) forces a portion of all vehicles to slow or stop. The delays and speed changes caused by traffic control devices reduce vehicle speeds, however, such controls are needed to establish right-of-way.

The average travel speed for through vehicles along an urban street is the determinant of the operating LOS. The travel speed along a segment, section or entire length of an urban street is dependent on the running speed between signalized intersections and the amount of control delay incurred at signalized intersections.

LOS A describes primarily free-flow operations. Vehicles are completely unimpeded in their ability to maneuver within the traffic stream. Control delay at signalized intersections is minimal.

LOS B describes reasonably unimpeded operations. The ability to maneuver within the traffic stream is only slightly restricted, and control delays at signalized intersections are not significant.

LOS C describes stable operations, however, ability to maneuver and change lanes in midblock location may be more restricted than at LOS B. Longer queues, adverse signal coordination, or both may contribute to lower travel speeds.

LOS D borders on a range in which in which small increases in flow may cause substantial increases in delay and decreases in travel speed. LOS D may be due to adverse signal progression, inappropriate signal timing, high volumes, or a combination of these factors.

LOS E is characterized by significant delays and lower travel speeds. Such operations are caused by a combination of adverse progression, high signal density, high volumes, extensive delays at critical intersections, and inappropriate signal timing.

LOS F is characterized by urban street flow at extremely low speeds. Intersection congestion is likely at critical signalized locations, with high delays, high volumes, and extensive queuing.

The methodology to determine LOS stratifies urban streets into four classifications. The classifications are complex, and are related to functional and design categories. Table A-II describes the functional and design categories, while Table A-III relates these to the urban street classification.

Once classified, the urban street is divided into segments for analysis. An urban street segment is a one-way section of street encompassing a series of blocks or links terminating at a signalized intersection. Adjacent segments of urban streets may be combined to form larger street sections, provided that the segments have similar demand flows and characteristics.

Levels of service are related to the average travel speed of vehicles along the urban street segment or section.

Travel times for existing conditions are obtained by field measurements. The maximum-car technique is used. The vehicle is driven at the posted speed limit unless impeded by actual traffic conditions. In the maximum-car technique, a safe level of vehicular operation is maintained by observing proper following distances and by changing speeds at reasonable rates of acceleration and deceleration. The maximum-car technique provides the best base for measuring traffic performance.

An observer records the travel time and locations and duration of delay. The beginning and ending points are the centers of intersections. Delays include times waiting in queues at signalized intersections. The travel speed is determined by dividing the length of the segment by the travel time. Once the travel speed on the arterial is determined, the LOS is found by comparing the speed to the criteria in Table A-IV. LOS criteria vary for the different classifications of urban street, reflecting differences in driver expectations.

Table A-II: Functional and Design Categories for Urban Streets

Criterion	***Functional Category***			
	Principal Arterial		***Minor Arterial***	
Mobility function	Very important		Important	
Access function	Very minor		Substantial	
Points connected	Freeways, important activity centers, major traffic generators		Principal arterials	
Predominant trips served	Relatively long trips between major points and through trips entering, leaving, and passing through city		Trips of moderate length within relatively small geographical areas	
Criterion	***Design Category***			
	High-Speed	***Suburban***	***Intermediate***	***Urban***
Driveway access density	Very low density	Low density	Moderate density	High density
Arterial type	Multilane divided; undivided or two-lane with shoulders	Multilane divided: undivided or two-lane with shoulders	Multilane divided or undivided; one way, two lane	Undivided one way; two way, two or more lanes
Parking	No	No	Some	Usually
Separate left-turn lanes	Yes	Yes	Usually	Some
Signals per mile	0.5 to 2	1 to 5	4 to 10	6 to 12
Speed limits	45 to 55 mph	40 to 45 mph	30 to 40 mph	25 to 35 mph
Pedestrian activity	Very little	Little	Some	Usually
Roadside development	Low density	Low to medium density	Medium to moderate density	High density

Source: *Highway Capacity Manual 2000*

Table A-III: Urban Street Class based on Function and Design Categories

Design Category	*Functional Category*	
	Principal Arterial	***Minor Arterial***
High-Speed	I	Not applicable
Suburban	II	II
Intermediate	II	III or IV
Urban	III or IV	IV

Source: *Highway Capacity Manual 2000*

Table A-IV: Urban Street Levels of Service by Class

Urban Street Class	***I***	***II***	***III***	***IV***
Range of Free Flow Speeds (mph)	45 to 55	35 to 45	30 to 35	25 to 35
Typical Free Flow Speed (mph)	50	40	33	30
LOS	***Average Travel Speed (mph)***			
A	>42	>35	>30	>25
B	>34	>28	>24	>19
C	>27	>22	>18	>13
D	>21	>17	>14	>9
E	>16	>13	>10	>7
F	≤16	≤13	≤10	≤7

Source: *Highway Capacity Manual 2000*

Interrupted Flow

One of the more important elements limiting, and often interrupting the flow of traffic on a highway is the intersection. Flow on an interrupted facility is usually dominated by points of fixed operation such as traffic signals, stop and yield signs. These all operate quite differently and have differing impacts on overall flow.

Signalized Intersections

The capacity of a highway is related primarily to the geometric characteristics of the facility, as well as to the composition of the traffic stream on the facility. Geometrics are a fixed, or non-varying, characteristic of a facility.

At the signalized intersection, an additional element is introduced into the concept of capacity: time allocation. A traffic signal essentially allocates time among conflicting traffic movements seeking use of the same physical space. The way in which time is allocated has a significant impact on the operation of the intersection and on the capacity of the intersection and its approaches.

LOS for signalized intersections is defined in terms of control delay, which is a measure of driver discomfort, frustration, fuel consumption, and increased travel time. The delay experienced by a motorist is made up of a number of factors that relate to control, traffic and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during base conditions, *i. e.,* in the absence of traffic control, geometric delay, any incidents, and any other vehicles. Specifically, LOS criteria for traffic signals are stated in terms of average control delay per vehicle, typically for a 15-minute analysis period. Delay is a complex measure and depends on a number of variables, including the quality of progression, the cycle length, the ratio of green time to cycle length and the volume to capacity ratio for the lane group.

For each intersection analyzed the average control delay per vehicle per approach is determined for the peak hour. A weighted average of control delay per vehicle is then determined for the intersection. A LOS designation is given to the control delay to better describe the level of operation. A description of levels of service for signalized intersections can be found in Table A-V

Table A-V: Description of Level of Service for Signalized Intersections

LOS	*Description*
A	Very low control delay, up to 10 seconds per vehicle. Progression is extremely favorable, and most vehicles arrive during the green phase. Many vehicles do not stop at all. Short cycle lengths may tend to contribute to low delay values.
B	Control delay greater than 10 and up to 20 seconds per vehicle. There is good progression or short cycle lengths or both. More vehicles stop causing higher levels of delay.
C	Control delay greater than 20 and up to 35 seconds per vehicle. Higher delays are caused by fair progression or longer cycle lengths or both. Individual cycle failures may begin to appear. Cycle failure occurs when a given green phase doe not serve queued vehicles, and overflow occurs. The number of vehicles stopping is significant, though many still pass through the intersection without stopping.
D	Control delay greater than 35 and up to 55 seconds per vehicle. The influence of congestions becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volumes. Many vehicles stop, the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.
E	Control delay greater than 55 and up to 80 seconds per vehicle. The limit of acceptable delay. High delays usually indicate poor progression, long cycle lengths, and high volumes. Individual cycle failures are frequent.
F	Control delay in excess of 80 seconds per vehicle. Unacceptable to most drivers. Oversaturation, arrival flow rates exceed the capacity of the intersection. Many individual cycle failures. Poor progression and long cycle lengths may also be contributing factors to higher delay.

Source: *Highway Capacity Manual 2000*

The use of control delay, which may also be referred to as signal delay, was introduced in the 1997 update to the *Highway Capacity Manual*, and represents a departure from previous updates. In the third edition, published in 1985 and the 1994 update to the third edition, delay only included stopped delay. Thus, the LOS criteria listed in Table A-V differs from earlier criteria.

Unsignalized Intersections

The current procedures on unsignalized intersections were first introduced in the 1997 update to the *Highway Capacity Manual* and represent a revision of the methodology published in the 1994 update to the 1985 *Highway Capacity Manual*. The revised procedures use control delay as a measure of effectiveness to determine LOS. Delay is a measure of driver discomfort, frustration, fuel consumption, and increased travel time. The delay experienced by a motorist is made up of a number of factors that relate to control, traffic and incidents. Total delay is the difference between the travel time actually experienced and the reference travel time that would result during base conditions, *i. e.,* in the absence of traffic control, geometric delay, any incidents, and any other vehicles. Control delay is the increased time of travel for a vehicle approaching and passing through an unsignalized intersection, compared with a free-flow vehicle if it were not required to slow or stop at the intersection.

Two-Way Stop Controlled Intersections

Two-way stop controlled intersections in which stop signs are used to assign the right-of-way, are the most prevalent type of intersection in the United States. At two-way stop-controlled intersections the stop-controlled approaches are referred as the minor street approaches and can be either public streets or private driveways. The approaches that are not controlled by stop signs are referred to as the major street approaches.

The capacity of movements subject to delay are determined using the "critical gap" method of capacity analysis. Expected average control delay based on movement volume and movement capacity is calculated. A LOS designation is given to the expected control delay for each minor movement. LOS is not defined for the intersection as a whole. Control delay is the increased time of travel for a vehicle approaching and passing through a stop-controlled intersection, compared with a free-flow vehicle if it were not required to slow or stop at the intersection. A description of levels of service for two-way stop-controlled intersections is found in Table A-VI.

Table A-VI: Description of Level of Service for Two-Way Stop Controlled Intersections

LOS	*Description*
A	Very low control delay less than 10 seconds per vehicle for each movement subject to delay.
B	Low control delay greater than 10 and up to 15 seconds per vehicle for each movement subject to delay.
C	Acceptable control delay greater than 15 and up to 25 seconds per vehicle for each movement subject to delay.
D	Tolerable control delay greater than 25 and up to 35 seconds per vehicle for each movement subject to delay.
E	Limit of tolerable control delay greater than 35 and up to 50 seconds per vehicle for each movement subject to delay.
F	Unacceptable control delay in excess of 50 seconds per vehicle for each movement subject to delay.

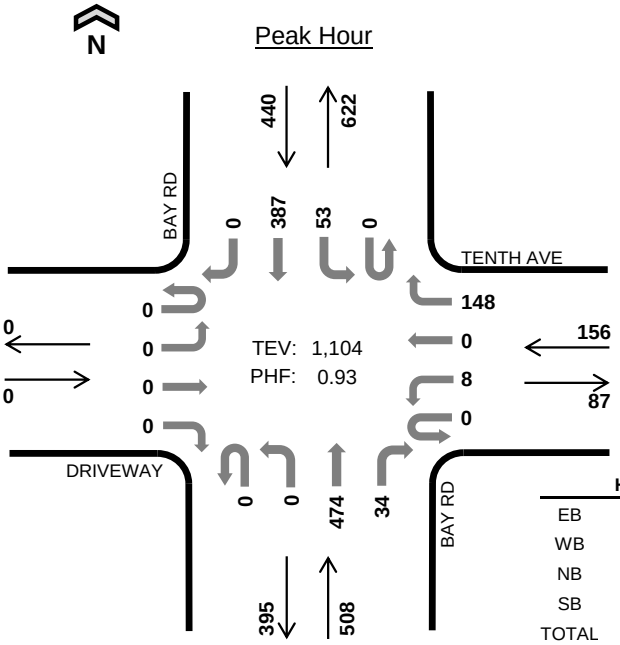
Source: *Highway Capacity Manual 2000*

Appendix B –Traffic Counts Sheets

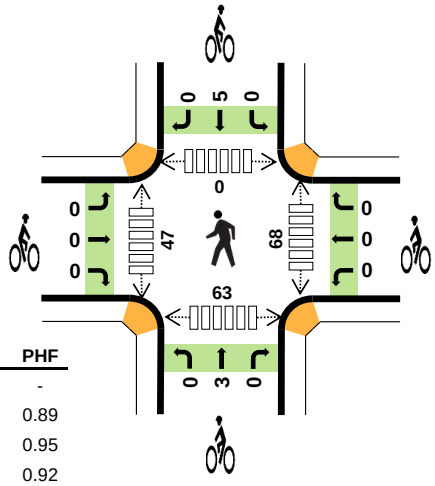
BAY RD
TENTH AVE

Peak Hour

Date: 10/12/2017
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:15 AM to 8:15 AM



	HV %:	PHF
EB	-	-
WB	1.3%	0.89
NB	3.0%	0.95
SB	3.4%	0.92
TOTAL	2.9%	0.93



Two-Hour Count Summaries

Interval Start	DRIVEWAY Eastbound				TENTH AVE Westbound				BAY RD Northbound				BAY RD Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	1	0	0	0	3	0	4	0	0	129	5	1	3	70	0	216	0
7:15 AM	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**31**	**0**	**0**	**118**	**7**	**0**	**13**	**96**	**0**	**267**	0
7:30 AM	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**42**	**0**	**0**	**128**	**6**	**0**	**13**	**107**	**0**	**298**	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**4**	**0**	**32**	**0**	**0**	**113**	**8**	**0**	**13**	**97**	**0**	**267**	1,048
8:00 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**43**	**0**	**0**	**115**	**13**	**0**	**14**	**87**	**0**	**272**	**1,104**
8:15 AM	0	0	0	0	0	2	0	30	0	0	78	2	0	11	109	0	232	1,069
8:30 AM	0	0	0	0	0	0	0	4	0	0	83	2	0	1	106	0	196	967
8:45 AM	0	0	0	0	0	1	0	5	0	0	76	2	0	7	120	0	211	911
Count Total	0	1	0	0	0	14	0	191	0	0	840	45	1	75	792	0	1,959	0
Peak Hour All	**0**	**0**	**0**	**0**	**0**	**8**	**0**	**148**	**0**	**0**	**474**	**34**	**0**	**53**	**387**	**0**	**1,104**	**0**
Peak Hour HV	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**14**	**1**	**0**	**2**	**13**	**0**	**32**	**0**
Peak Hour HV%	**-**	**-**	**-**	**-**	**-**	**0%**	**-**	**1%**	**-**	**-**	**3%**	**3%**	**-**	**4%**	**3%**	**-**	**3%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	0	0	4	2	*6*	0	0	1	0	*1*	0	0	0	0	*0*
7:15 AM	**0**	**1**	**4**	**6**	***11***	**0**	**0**	**1**	**1**	***2***	**11**	**7**	**0**	**5**	*23*
7:30 AM	**0**	**0**	**2**	**3**	***5***	**0**	**0**	**2**	**1**	***3***	**6**	**7**	**0**	**6**	*19*
7:45 AM	**0**	**0**	**3**	**5**	***8***	**0**	**0**	**0**	**2**	***2***	**8**	**10**	**0**	**13**	*31*
8:00 AM	**0**	**1**	**6**	**1**	***8***	**0**	**0**	**0**	**1**	***1***	**43**	**23**	**0**	**39**	***105***
8:15 AM	0	0	3	6	*9*	0	0	1	0	*1*	16	6	0	10	*32*
8:30 AM	0	0	1	1	*2*	0	0	1	0	*1*	3	1	0	1	*5*
8:45 AM	0	0	2	5	*7*	0	0	1	0	*1*	5	2	0	2	*9*
Count Total	0	2	25	29	*56*	0	0	7	5	*12*	92	56	0	76	*224*
Peak Hour	**0**	**2**	**15**	**15**	***32***	**0**	**0**	**3**	**5**	***8***	**68**	**47**	**0**	**63**	***178***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	DRIVEWAY				TENTH AVE				BAY RD				BAY RD				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	0	0	0	4	0	0	0	2	0	6	0
7:15 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**4**	**0**	**0**	**0**	**6**	**0**	**11**	0
7:30 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**1**	**2**	**0**	**5**	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**1**	**4**	**0**	**8**	30
8:00 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**5**	**1**	**0**	**0**	**1**	**0**	**8**	**32**
8:15 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	1	5	0	9	30
8:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	27
8:45 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	5	0	7	26
Count Total	0	0	0	0	0	0	0	2	0	0	24	1	0	3	26	0	56	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**14**	**1**	**0**	**2**	**13**	**0**	**32**	**0**

Two-Hour Count Summaries - Bikes

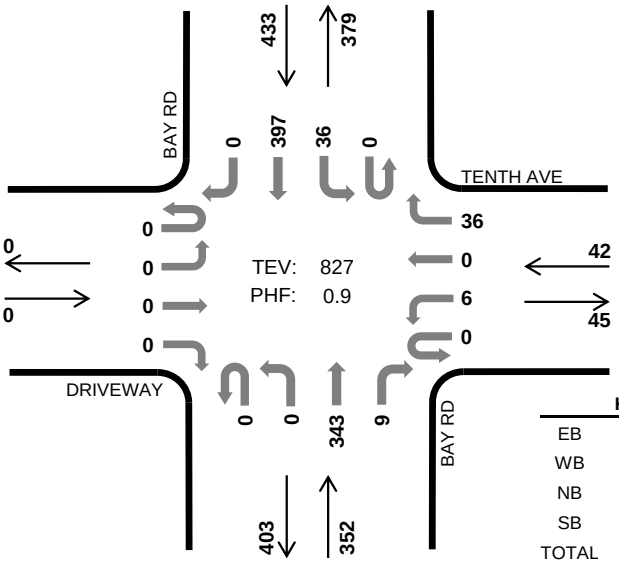
Interval Start	DRIVEWAY			TENTH AVE			BAY RD			BAY RD			15-min Total	Rolling One Hour
	Eastbound			Westbound			Northbound			Southbound				
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0
7:15 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**2**	0
7:30 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**1**	**0**	**3**	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**2**	8
8:00 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**8**
8:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	7
8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	5
8:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	4
Count Total	0	0	0	0	0	0	0	7	0	0	5	0	12	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**5**	**0**	**8**	**0**

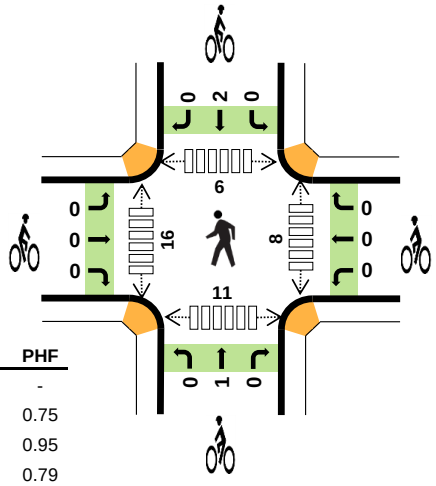
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

BAY RD
TENTH AVE

Date: 10/12/2017
Count Period: 1:00 PM to 3:00 PM
Peak Hour: 2:00 PM to 3:00 PM

Peak Hour





	HV %:	PHF
EB	-	-
WB	7.1%	0.75
NB	2.8%	0.95
SB	4.4%	0.79
TOTAL	3.9%	0.90

Two-Hour Count Summaries

Interval Start	DRIVEWAY Eastbound				TENTH AVE Westbound				BAY RD Northbound				BAY RD Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
1:00 PM	0	0	0	0	0	1	0	22	0	0	74	11	0	22	82	0	212	0
1:15 PM	0	0	0	0	0	4	0	46	0	0	79	5	0	14	95	0	243	0
1:30 PM	0	0	0	0	0	3	0	23	1	0	84	3	0	9	78	0	201	0
1:45 PM	0	0	0	0	0	2	0	3	0	0	72	0	0	5	70	0	152	808
2:00 PM	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**6**	**0**	**0**	**89**	**3**	**0**	**10**	**79**	**0**	**189**	785
2:15 PM	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**7**	**0**	**0**	**85**	**2**	**0**	**10**	**87**	**0**	**192**	734
2:30 PM	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**11**	**0**	**0**	**78**	**2**	**0**	**4**	**133**	**0**	**229**	762
2:45 PM	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**12**	**0**	**0**	**91**	**2**	**0**	**12**	**98**	**0**	**217**	**827**
Count Total	0	0	0	0	0	16	0	130	1	0	652	28	0	86	722	0	1,635	0
Peak Hour All	**0**	**0**	**0**	**0**	**0**	**6**	**0**	**36**	**0**	**0**	**343**	**9**	**0**	**36**	**397**	**0**	**827**	**0**
Peak Hour HV	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**10**	**0**	**0**	**2**	**17**	**0**	**32**	**0**
Peak Hour HV%	**-**	**-**	**-**	**-**	**-**	**0%**	**-**	**8%**	**-**	**-**	**3%**	**0%**	**-**	**6%**	**4%**	**-**	**4%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
1:00 PM	0	0	4	4	*8*	0	0	0	0	*0*	16	6	0	14	*36*
1:15 PM	0	0	5	4	*9*	0	0	1	1	*2*	25	15	0	18	*58*
1:30 PM	0	1	4	3	*8*	0	0	1	3	*4*	1	1	1	0	*3*
1:45 PM	0	0	0	3	*3*	0	0	0	1	*1*	2	4	0	2	*8*
2:00 PM	**0**	**1**	**1**	**2**	***4***	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	*0*
2:15 PM	**0**	**1**	**3**	**6**	***10***	**0**	**0**	**0**	**1**	***1***	**6**	**10**	**3**	**5**	*24*
2:30 PM	**0**	**1**	**3**	**7**	***11***	**0**	**0**	**1**	**0**	***1***	**1**	**2**	**0**	**5**	*8*
2:45 PM	**0**	**0**	**3**	**4**	***7***	**0**	**0**	**0**	**1**	***1***	**1**	**4**	**3**	**1**	***9***
Count Total	0	4	23	33	*60*	0	0	3	7	*10*	52	42	7	45	*146*
Peak Hour	**0**	**3**	**10**	**19**	***32***	**0**	**0**	**1**	**2**	***3***	**8**	**16**	**6**	**11**	***41***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	DRIVEWAY				TENTH AVE				BAY RD				BAY RD				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
1:00 PM	0	0	0	0	0	0	0	0	0	0	4	0	0	1	3	0	8	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	5	0	0	0	4	0	9	0
1:30 PM	0	0	0	0	0	1	0	0	0	0	4	0	0	0	3	0	8	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	28
2:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**0**	**0**	**2**	**0**	**4**	24
2:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**3**	**0**	**0**	**0**	**6**	**0**	**10**	25
2:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**3**	**0**	**0**	**1**	**6**	**0**	**11**	28
2:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**1**	**3**	**0**	**7**	**32**
Count Total	0	0	0	0	0	1	0	3	0	0	23	0	0	4	29	0	60	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**10**	**0**	**0**	**2**	**17**	**0**	**32**	**0**

Two-Hour Count Summaries - Bikes

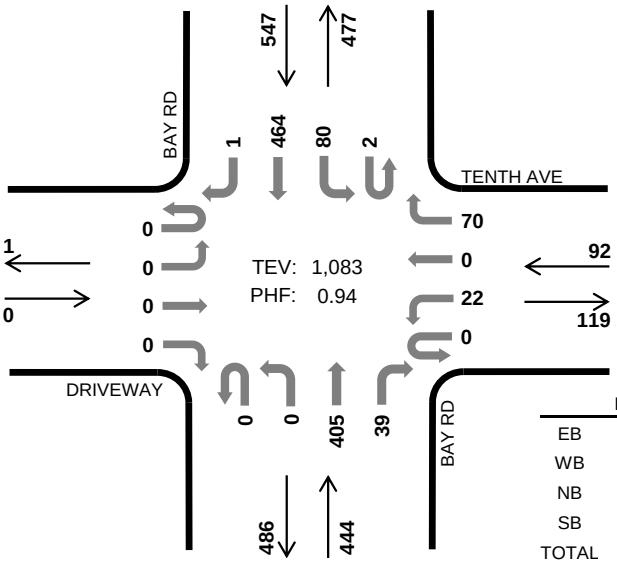
Interval Start	DRIVEWAY			TENTH AVE			BAY RD			BAY RD			15-min Total	Rolling One Hour
	Eastbound			Westbound			Northbound			Southbound				
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	1	0	0	1	0	2	0
1:30 PM	0	0	0	0	0	0	0	1	0	1	2	0	4	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	7
2:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	7
2:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	6
2:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	3
2:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**3**
Count Total	0	0	0	0	0	0	0	3	0	1	6	0	10	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**0**	**3**	**0**

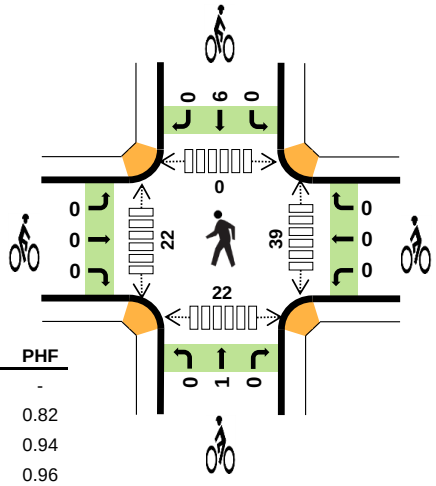
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

BAY RD
TENTH AVE

Date: 10/12/2017
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 5:00 PM to 6:00 PM

Peak Hour





	HV %:	PHF
EB	-	-
WB	1.1%	0.82
NB	1.6%	0.94
SB	1.3%	0.96
TOTAL	1.4%	0.94

Two-Hour Count Summaries

Interval Start		DRIVEWAY Eastbound				TENTH AVE Westbound				BAY RD Northbound				BAY RD Southbound				15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM		0	0	0	0	0	2	0	8	0	0	83	2	0	13	122	1	231	0
4:15 PM		0	0	0	0	0	4	0	13	0	0	57	4	1	8	117	0	204	0
4:30 PM		0	0	0	0	0	5	0	21	0	0	90	3	1	15	122	0	257	0
4:45 PM		0	0	0	0	0	2	0	10	0	0	90	4	1	14	119	0	240	932
5:00 PM		**0**	**0**	**0**	**0**	**0**	**6**	**0**	**20**	**0**	**0**	**99**	**8**	**2**	**23**	**115**	**0**	**273**	974
5:15 PM		**0**	**0**	**0**	**0**	**0**	**5**	**0**	**16**	**0**	**0**	**105**	**6**	**0**	**18**	**111**	**0**	**261**	1,031
5:30 PM		**0**	**0**	**0**	**0**	**0**	**8**	**0**	**20**	**0**	**0**	**107**	**11**	**0**	**17**	**126**	**0**	**289**	1,063
5:45 PM		**0**	**0**	**0**	**0**	**0**	**3**	**0**	**14**	**0**	**0**	**94**	**14**	**0**	**22**	**112**	**1**	**260**	**1,083**
Count Total		0	0	0	0	0	35	0	122	0	0	725	52	5	130	944	2	2,015	0
Peak Hour	**All**	**0**	**0**	**0**	**0**	**0**	**22**	**0**	**70**	**0**	**0**	**405**	**39**	**2**	**80**	**464**	**1**	**1,083**	**0**
	HV	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**0**	**7**	**0**	**15**	**0**
	HV%	**-**	**-**	**-**	**-**	**-**	**5%**	**-**	**0%**	**-**	**-**	**2%**	**0%**	**0%**	**0%**	**2%**	**0%**	**1%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	0	0	4	3	*7*	0	0	0	3	*3*	0	1	0	1	*2*
4:15 PM	0	0	1	2	*3*	0	0	2	0	*2*	5	3	0	3	*11*
4:30 PM	0	0	5	1	*6*	0	0	1	0	*1*	2	2	0	2	*6*
4:45 PM	0	0	0	1	*1*	0	0	0	0	*0*	4	5	0	3	*12*
5:00 PM	**0**	**1**	**3**	**1**	***5***	**0**	**0**	**0**	**3**	***3***	**9**	**0**	**0**	**0**	*9*
5:15 PM	**0**	**0**	**1**	**1**	***2***	**0**	**0**	**0**	**1**	***1***	**5**	**6**	**0**	**3**	*14*
5:30 PM	**0**	**0**	**2**	**2**	***4***	**0**	**0**	**0**	**0**	***0***	**9**	**2**	**0**	**4**	*15*
5:45 PM	**0**	**0**	**1**	**3**	***4***	**0**	**0**	**1**	**2**	***3***	**16**	**14**	**0**	**15**	***45***
Count Total	0	1	17	14	*32*	0	0	4	9	*13*	50	33	0	31	*114*
Peak Hour	**0**	**1**	**7**	**7**	***15***	**0**	**0**	**1**	**6**	***7***	**39**	**22**	**0**	**22**	***83***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	DRIVEWAY				TENTH AVE				BAY RD				BAY RD				15-min Total	Rolling One Hour
	Eastbound				Westbound				Northbound				Southbound					
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	0	0	0	0	0	0	0	0	4	0	0	0	3	0	7	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	3	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	5	0	0	0	1	0	6	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	17
5:00 PM	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**0**	**1**	**0**	**5**	15
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**2**	14
5:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**2**	**0**	**4**	12
5:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**3**	**0**	**4**	**15**
Count Total	0	0	0	0	0	1	0	0	0	0	17	0	0	0	14	0	32	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**7**	**0**	**0**	**0**	**7**	**0**	**15**	**0**

Two-Hour Count Summaries - Bikes

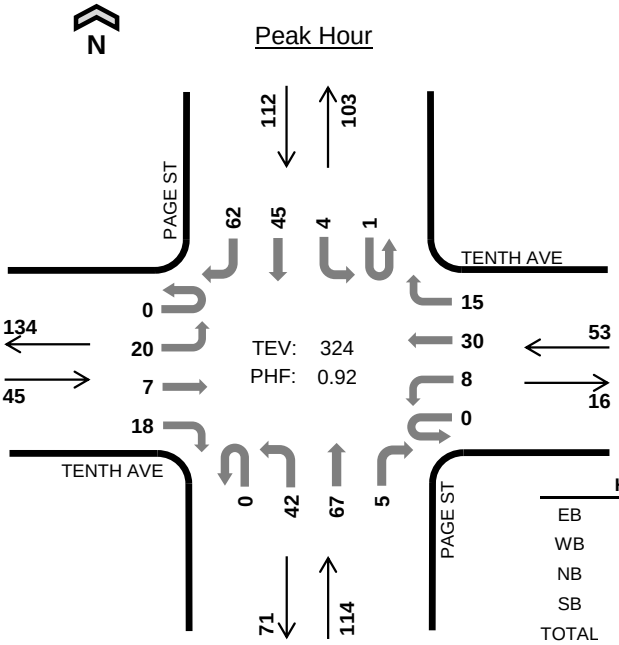
Interval Start	DRIVEWAY			TENTH AVE			BAY RD			BAY RD			15-min Total	Rolling One Hour
	Eastbound			Westbound			Northbound			Southbound				
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
4:00 PM	0	0	0	0	0	0	0	0	0	1	2	0	3	0
4:15 PM	0	0	0	0	0	0	0	2	0	0	0	0	2	0
4:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	6
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**3**	6
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	5
5:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	4
5:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**0**	**3**	**7**
Count Total	0	0	0	0	0	0	0	4	0	1	8	0	13	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**6**	**0**	**7**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

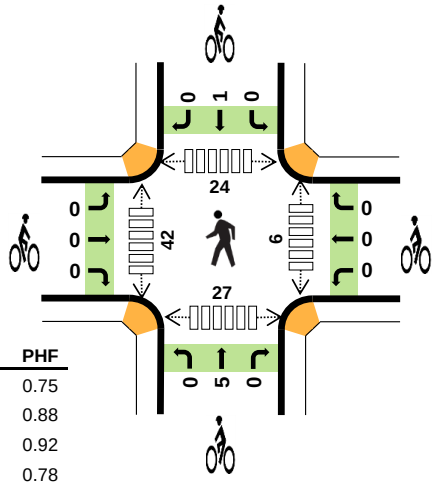
PAGE ST
TENTH AVE

Date: 10/12/2017
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:15 AM to 8:15 AM

Peak Hour



	HV %:	PHF
EB	6.7%	0.75
WB	0.0%	0.88
NB	1.8%	0.92
SB	0.0%	0.78
TOTAL	1.5%	0.92



Two-Hour Count Summaries

Interval Start	TENTH AVE Eastbound				TENTH AVE Westbound				PAGE ST Northbound				PAGE ST Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	3	0	1	0	2	1	0	0	3	7	0	0	0	7	2	26	0
7:15 AM	**0**	**3**	**3**	**3**	**0**	**1**	**10**	**4**	**0**	**11**	**19**	**1**	**0**	**1**	**5**	**6**	**67**	0
7:30 AM	**0**	**3**	**1**	**4**	**0**	**6**	**3**	**3**	**0**	**10**	**17**	**2**	**1**	**1**	**12**	**22**	**85**	0
7:45 AM	**0**	**5**	**1**	**7**	**0**	**1**	**9**	**4**	**0**	**9**	**16**	**1**	**0**	**1**	**21**	**13**	**88**	266
8:00 AM	**0**	**9**	**2**	**4**	**0**	**0**	**8**	**4**	**0**	**12**	**15**	**1**	**0**	**1**	**7**	**21**	**84**	**324**
8:15 AM	0	0	4	3	0	2	8	0	0	9	9	0	0	2	17	10	64	321
8:30 AM	0	4	1	1	0	1	2	0	0	2	9	0	0	0	4	4	28	264
8:45 AM	0	1	2	0	0	1	2	2	0	0	5	1	0	1	4	3	22	198
Count Total	0	28	14	23	0	14	43	17	0	56	97	6	1	7	77	81	464	0
Peak Hour All	**0**	**20**	**7**	**18**	**0**	**8**	**30**	**15**	**0**	**42**	**67**	**5**	**1**	**4**	**45**	**62**	**324**	**0**
Peak Hour HV	**0**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**5**	**0**
Peak Hour HV%	**-**	**10%**	**0%**	**6%**	**-**	**0%**	**0%**	**0%**	**-**	**2%**	**1%**	**0%**	**0%**	**0%**	**0%**	**0%**	**2%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	1	0	0	0	*1*	0	0	0	0	*0*	0	2	1	0	*3*
7:15 AM	**0**	**0**	**1**	**0**	***1***	**0**	**0**	**1**	**0**	***1***	**0**	**4**	**1**	**3**	*8*
7:30 AM	**1**	**0**	**1**	**0**	***2***	**0**	**0**	**1**	**1**	***2***	**2**	**2**	**3**	**2**	*9*
7:45 AM	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**2**	**0**	***2***	**0**	**5**	**2**	**4**	*11*
8:00 AM	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**1**	**0**	***1***	**4**	**31**	**18**	**18**	***71***
8:15 AM	0	0	0	0	*0*	0	0	0	0	*0*	3	16	12	12	*43*
8:30 AM	2	1	0	0	*3*	0	2	0	1	*3*	5	1	3	0	*9*
8:45 AM	0	0	0	0	*0*	0	0	1	0	*1*	0	2	0	1	*3*
Count Total	6	1	2	0	*9*	0	2	6	2	*10*	14	63	40	40	*157*
Peak Hour	**3**	**0**	**2**	**0**	***5***	**0**	**0**	**5**	**1**	***6***	**6**	**42**	**24**	**27**	***99***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	TENTH AVE Eastbound				TENTH AVE Westbound				PAGE ST Northbound				PAGE ST Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
7:15 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	0
7:30 AM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**2**	0
7:45 AM	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	5
8:00 AM	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**5**
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
8:30 AM	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	3	5
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Count Total	0	3	1	2	0	0	1	0	0	1	1	0	0	0	0	0	9	0
Peak Hour	**0**	**2**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**5**	**0**

Two-Hour Count Summaries - Bikes

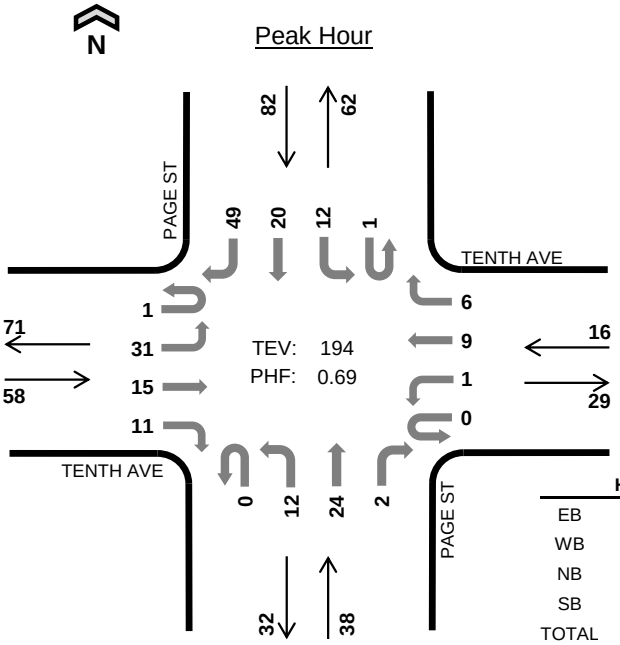
Interval Start	TENTH AVE Eastbound			TENTH AVE Westbound			PAGE ST Northbound			PAGE ST Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	0
7:30 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**2**	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**2**	5
8:00 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	**6**
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	5
8:30 AM	0	0	0	0	0	2	0	0	0	0	1	0	3	6
8:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	5
Count Total	0	0	0	0	0	2	0	6	0	0	2	0	10	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**	**0**	**0**	**1**	**0**	**6**	**0**

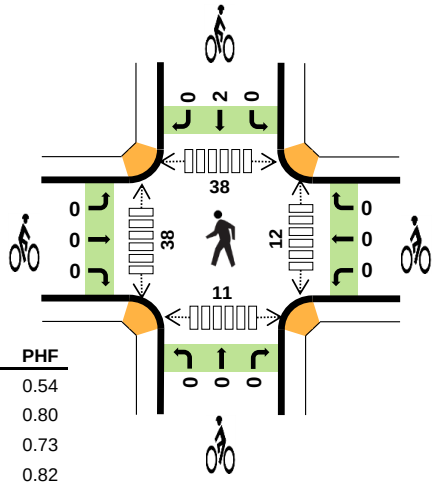
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

PAGE ST
TENTH AVE

Peak Hour

Date: 10/12/2017
Count Period: 1:00 PM to 3:00 PM
Peak Hour: 1:00 PM to 2:00 PM





	HV %:	PHF
EB	1.7%	0.54
WB	0.0%	0.80
NB	0.0%	0.73
SB	1.2%	0.82
TOTAL	1.0%	0.69

Two-Hour Count Summaries

Interval Start		TENTH AVE Eastbound				TENTH AVE Westbound				PAGE ST Northbound				PAGE ST Southbound				15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
1:00 PM		**0**	**9**	**5**	**2**	**0**	**0**	**3**	**2**	**0**	**2**	**7**	**0**	**1**	**1**	**5**	**15**	**52**	0
1:15 PM		**1**	**17**	**5**	**4**	**0**	**0**	**3**	**2**	**0**	**6**	**5**	**2**	**0**	**2**	**4**	**19**	**70**	0
1:30 PM		**0**	**4**	**5**	**4**	**0**	**1**	**3**	**1**	**0**	**3**	**8**	**0**	**0**	**6**	**5**	**13**	**53**	0
1:45 PM		**0**	**1**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**1**	**4**	**0**	**0**	**3**	**6**	**2**	**19**	**194**
2:00 PM		0	4	5	1	0	0	2	0	0	2	4	1	0	1	8	7	35	177
2:15 PM		0	0	5	2	0	0	1	1	0	2	9	0	0	1	9	2	32	139
2:30 PM		1	2	3	1	0	0	2	1	0	2	5	3	0	1	6	5	32	118
2:45 PM		0	7	4	4	0	0	3	0	0	1	5	3	0	3	6	2	38	137
Count Total		2	44	32	19	0	1	17	8	0	19	47	9	1	18	49	65	331	0
Peak Hour	**All**	**1**	**31**	**15**	**11**	**0**	**1**	**9**	**6**	**0**	**12**	**24**	**2**	**1**	**12**	**20**	**49**	**194**	**0**
	HV	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**2**	**0**
	HV%	**0%**	**0%**	**7%**	**0%**	**-**	**0%**	**0%**	**0%**	**-**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**2%**	**1%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals EB	WB	NB	SB	Total	Bicycles EB	WB	NB	SB	Total	Pedestrians (Crossing Leg) East	West	North	South	Total
1:00 PM	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**1**	***1***	**1**	**11**	**9**	**7**	*28*
1:15 PM	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**0**	**0**	***0***	**6**	**10**	**24**	**4**	*44*
1:30 PM	**0**	**0**	**0**	**1**	***1***	**0**	**0**	**0**	**1**	***1***	**5**	**16**	**5**	**0**	*26*
1:45 PM	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	***0***	**0**	**1**	**0**	**0**	***1***
2:00 PM	1	0	1	1	*3*	0	0	1	0	*1*	0	2	0	0	*2*
2:15 PM	0	1	1	0	*2*	0	0	0	0	*0*	1	4	3	4	*12*
2:30 PM	1	0	0	1	*2*	0	0	1	0	*1*	0	2	0	4	*6*
2:45 PM	2	0	0	0	*2*	0	0	0	0	*0*	0	6	1	1	*8*
Count Total	5	1	2	3	*11*	0	0	2	2	*4*	13	52	42	20	*127*
Peak Hour	**1**	**0**	**0**	**1**	***2***	**0**	**0**	**0**	**2**	***2***	**12**	**38**	**38**	**11**	***99***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	TENTH AVE Eastbound				TENTH AVE Westbound				PAGE ST Northbound				PAGE ST Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
1:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
1:15 PM	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	0
1:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	0
1:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**
2:00 PM	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	3	5
2:15 PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2	6
2:30 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	7
2:45 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	9
Count Total	0	0	3	2	0	0	0	1	0	1	0	1	0	0	0	3	11	0
Peak Hour	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**2**	**0**

Two-Hour Count Summaries - Bikes

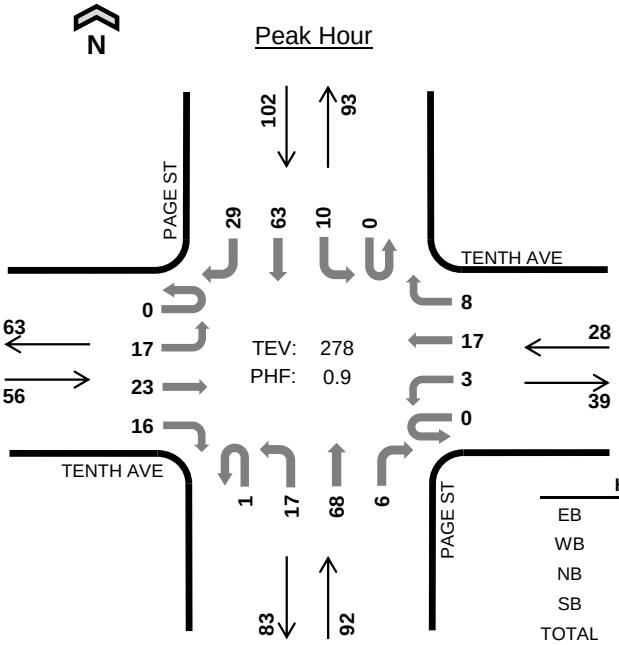
Interval Start	TENTH AVE Eastbound			TENTH AVE Westbound			PAGE ST Northbound			PAGE ST Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
1:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	0
1:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
1:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	0
1:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**
2:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	2
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	2
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Count Total	0	0	0	0	0	0	0	2	0	0	2	0	4	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**2**	**0**

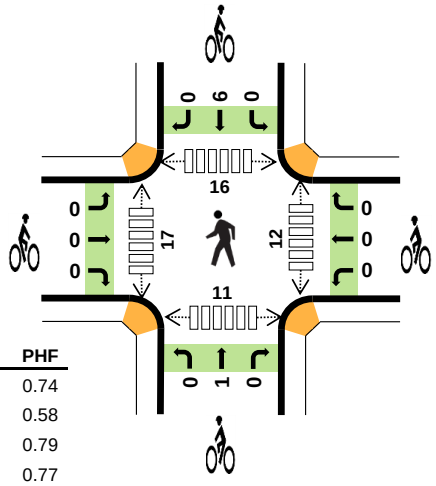
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

PAGE ST
TENTH AVE

Peak Hour

Date: 10/12/2017
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 5:00 PM to 6:00 PM





	HV %:	PHF
EB	0.0%	0.74
WB	0.0%	0.58
NB	0.0%	0.79
SB	1.0%	0.77
TOTAL	0.4%	0.90

Two-Hour Count Summaries

Interval Start		TENTH AVE Eastbound				TENTH AVE Westbound				PAGE ST Northbound				PAGE ST Southbound				15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM		0	2	3	8	0	1	1	0	0	2	5	1	0	0	8	2	33	0
4:15 PM		0	1	5	2	0	2	4	4	0	2	8	4	0	3	7	8	50	0
4:30 PM		1	5	5	4	0	0	1	0	0	6	8	1	0	2	9	6	48	0
4:45 PM		0	1	8	4	0	0	3	2	1	8	11	0	0	3	9	5	55	186
5:00 PM		**0**	**8**	**8**	**3**	**0**	**1**	**3**	**1**	**0**	**6**	**12**	**3**	**0**	**1**	**12**	**10**	**68**	221
5:15 PM		**0**	**2**	**6**	**6**	**0**	**1**	**6**	**5**	**1**	**5**	**22**	**1**	**0**	**3**	**16**	**3**	**77**	248
5:30 PM		**0**	**3**	**5**	**3**	**0**	**0**	**4**	**2**	**0**	**4**	**19**	**1**	**0**	**4**	**20**	**9**	**74**	274
5:45 PM		**0**	**4**	**4**	**4**	**0**	**1**	**4**	**0**	**0**	**2**	**15**	**1**	**0**	**2**	**15**	**7**	**59**	**278**
Count Total		1	26	44	34	0	6	26	14	2	35	100	12	0	18	96	50	464	0
Peak Hour	**All**	**0**	**17**	**23**	**16**	**0**	**3**	**17**	**8**	**1**	**17**	**68**	**6**	**0**	**10**	**63**	**29**	**278**	**0**
	HV	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**
	HV%	**-**	**0%**	**0%**	**0%**	**-**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**-**	**0%**	**0%**	**3%**	**0%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals EB	WB	NB	SB	Total	Bicycles EB	WB	NB	SB	Total	Pedestrians (Crossing Leg) East	West	North	South	Total
4:00 PM	0	0	0	0	*0*	1	0	1	0	*2*	6	2	13	0	*21*
4:15 PM	0	0	0	0	*0*	0	0	0	4	*4*	1	1	1	0	*3*
4:30 PM	0	0	1	0	*1*	0	0	2	0	*2*	1	2	0	2	*5*
4:45 PM	0	0	0	0	*0*	0	0	0	2	*2*	0	2	0	0	*2*
5:00 PM	**0**	**0**	**0**	**1**	***1***	**0**	**0**	**1**	**2**	***3***	**0**	**0**	**0**	**4**	*4*
5:15 PM	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	***0***	**3**	**9**	**3**	**3**	*18*
5:30 PM	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**2**	***2***	**6**	**2**	**4**	**3**	*15*
5:45 PM	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**2**	***2***	**3**	**6**	**9**	**1**	***19***
Count Total	0	0	1	1	*2*	1	0	4	12	*17*	20	24	30	13	*87*
Peak Hour	**0**	**0**	**0**	**1**	***1***	**0**	**0**	**1**	**6**	***7***	**12**	**17**	**16**	**11**	***56***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	TENTH AVE Eastbound				TENTH AVE Westbound				PAGE ST Northbound				PAGE ST Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	2
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	2
5:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	1
5:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**
Count Total	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**

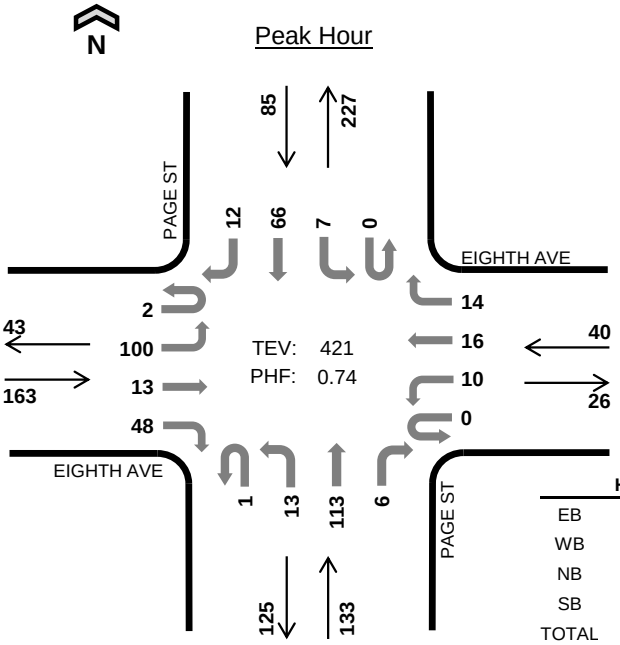
Two-Hour Count Summaries - Bikes

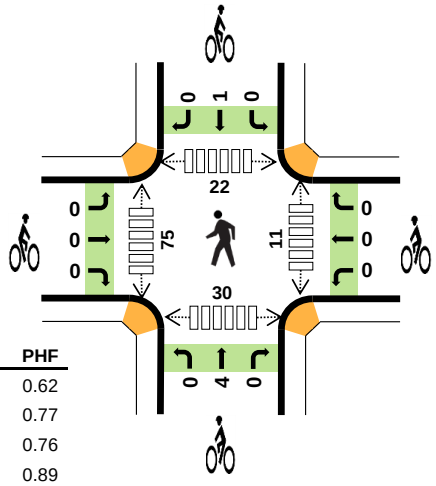
Interval Start	TENTH AVE Eastbound			TENTH AVE Westbound			PAGE ST Northbound			PAGE ST Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
4:00 PM	0	1	0	0	0	0	0	1	0	0	0	0	2	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	4	0	4	0
4:30 PM	0	0	0	0	0	0	1	0	1	0	0	0	2	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	2	0	2	10
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**0**	**3**	11
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	7
5:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**2**	7
5:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**2**	**7**
Count Total	0	1	0	0	0	0	1	2	1	0	12	0	17	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**6**	**0**	**7**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

PAGE ST
EIGHTH AVE

Date: 10/12/2017
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:15 AM to 8:15 AM





	HV %:	PHF
EB	0.0%	0.62
WB	2.5%	0.77
NB	2.3%	0.76
SB	1.2%	0.89
TOTAL	1.2%	0.74

Two-Hour Count Summaries

Interval Start		EIGHTH AVE Eastbound				EIGHTH AVE Westbound				PAGE ST Northbound				PAGE ST Southbound				15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM		1	1	1	3	0	0	4	0	0	4	14	0	0	1	3	0	32	0
7:15 AM		**0**	**17**	**3**	**5**	**0**	**2**	**7**	**4**	**1**	**3**	**26**	**2**	**0**	**1**	**16**	**1**	**88**	0
7:30 AM		**2**	**41**	**1**	**22**	**0**	**3**	**2**	**3**	**0**	**7**	**36**	**1**	**0**	**4**	**16**	**4**	**142**	0
7:45 AM		**0**	**32**	**6**	**12**	**0**	**1**	**3**	**5**	**0**	**3**	**22**	**1**	**0**	**1**	**19**	**4**	**109**	371
8:00 AM		**0**	**10**	**3**	**9**	**0**	**4**	**4**	**2**	**0**	**0**	**29**	**2**	**0**	**1**	**15**	**3**	**82**	**421**
8:15 AM		0	3	2	8	0	1	4	0	0	1	12	2	0	0	10	0	43	376
8:30 AM		0	2	1	3	0	0	4	7	0	0	13	1	0	2	7	0	40	274
8:45 AM		0	0	2	1	0	2	0	2	0	2	11	1	0	2	3	2	28	193
Count Total		3	106	19	63	0	13	28	23	1	20	163	10	0	12	89	14	564	0
Peak Hour	**All**	**2**	**100**	**13**	**48**	**0**	**10**	**16**	**14**	**1**	**13**	**113**	**6**	**0**	**7**	**66**	**12**	**421**	**0**
	HV	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**3**	**0**	**0**	**0**	**1**	**0**	**5**	**0**
	HV%	**0%**	**0%**	**0%**	**0%**	**-**	**0%**	**0%**	**7%**	**0%**	**0%**	**3%**	**0%**	**-**	**0%**	**2%**	**0%**	**1%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals EB	WB	NB	SB	Total	Bicycles EB	WB	NB	SB	Total	Pedestrians (Crossing Leg) East	West	North	South	Total
7:00 AM	0	0	0	0	*0*	0	0	1	0	*1*	4	4	0	2	*10*
7:15 AM	**0**	**0**	**0**	**1**	***1***	**0**	**0**	**0**	**0**	***0***	**4**	**20**	**0**	**0**	*24*
7:30 AM	**0**	**1**	**2**	**0**	***3***	**0**	**0**	**1**	**1**	***2***	**4**	**17**	**5**	**6**	*32*
7:45 AM	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**2**	**0**	***2***	**1**	**19**	**3**	**7**	*30*
8:00 AM	**0**	**0**	**1**	**0**	***1***	**0**	**0**	**1**	**0**	***1***	**2**	**19**	**14**	**17**	***52***
8:15 AM	0	1	0	0	*1*	0	0	1	0	*1*	1	7	4	3	*15*
8:30 AM	0	1	1	0	*2*	0	0	1	2	*3*	1	0	0	1	*2*
8:45 AM	0	0	0	1	*1*	0	0	1	0	*1*	0	9	0	0	*9*
Count Total	0	3	4	2	*9*	0	0	8	3	*11*	17	95	26	36	*174*
Peak Hour	**0**	**1**	**3**	**1**	***5***	**0**	**0**	**4**	**1**	***5***	**11**	**75**	**22**	**30**	***138***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	EIGHTH AVE Eastbound				EIGHTH AVE Westbound				PAGE ST Northbound				PAGE ST Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	0
7:30 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**3**	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	4
8:00 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**1**	**5**
8:15 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	5
8:30 AM	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2	4
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	5
Count Total	0	0	0	0	0	0	1	2	0	0	4	0	0	0	2	0	9	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**3**	**0**	**0**	**0**	**1**	**0**	**5**	**0**

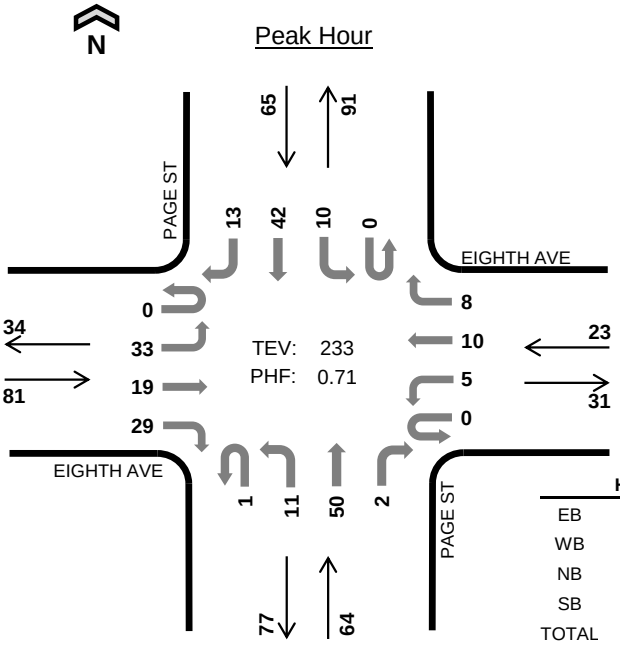
Two-Hour Count Summaries - Bikes

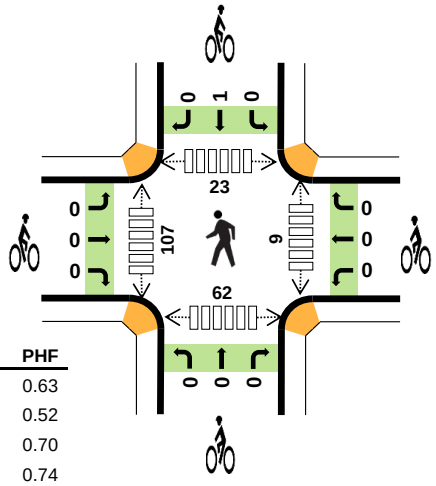
Interval Start	EIGHTH AVE Eastbound			EIGHTH AVE Westbound			PAGE ST Northbound			PAGE ST Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0
7:15 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
7:30 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**2**	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**2**	5
8:00 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**1**	**5**
8:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	6
8:30 AM	0	0	0	0	0	0	0	1	0	0	1	1	3	7
8:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	6
Count Total	0	0	0	0	0	0	0	8	0	0	2	1	11	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**1**	**0**	**5**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

PAGE ST
EIGHTH AVE

Date: 10/12/2017
Count Period: 1:00 PM to 3:00 PM
Peak Hour: 1:00 PM to 2:00 PM





	HV %:	PHF
EB	1.2%	0.63
WB	0.0%	0.52
NB	0.0%	0.70
SB	1.5%	0.74
TOTAL	0.9%	0.71

Two-Hour Count Summaries

Interval Start	EIGHTH AVE Eastbound				EIGHTH AVE Westbound				PAGE ST Northbound				PAGE ST Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
1:00 PM	**0**	**8**	**10**	**13**	**0**	**2**	**1**	**3**	**1**	**7**	**13**	**2**	**0**	**4**	**13**	**5**	**82**	0
1:15 PM	**0**	**15**	**4**	**13**	**0**	**2**	**5**	**4**	**0**	**2**	**19**	**0**	**0**	**4**	**7**	**4**	**79**	0
1:30 PM	**0**	**9**	**4**	**2**	**0**	**0**	**3**	**1**	**0**	**2**	**13**	**0**	**0**	**2**	**11**	**3**	**50**	0
1:45 PM	**0**	**1**	**1**	**1**	**0**	**1**	**1**	**0**	**0**	**0**	**5**	**0**	**0**	**0**	**11**	**1**	**22**	**233**
2:00 PM	0	1	5	6	0	0	2	1	0	1	12	0	0	1	7	4	40	191
2:15 PM	0	0	1	3	0	2	1	1	0	0	5	0	0	0	12	1	26	138
2:30 PM	0	2	4	3	0	0	2	0	0	1	17	0	0	3	11	0	43	131
2:45 PM	0	1	3	2	0	0	1	1	0	2	8	1	0	0	10	2	31	140
Count Total	0	37	32	43	0	7	16	11	1	15	92	3	0	14	82	20	373	0
Peak Hour All	**0**	**33**	**19**	**29**	**0**	**5**	**10**	**8**	**1**	**11**	**50**	**2**	**0**	**10**	**42**	**13**	**233**	**0**
Peak Hour HV	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**0**
Peak Hour HV%	**-**	**0%**	**0%**	**3%**	**-**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**-**	**10%**	**0%**	**0%**	**1%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
1:00 PM	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	***0***	**2**	**17**	**3**	**18**	*40*
1:15 PM	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**0**	**0**	***0***	**3**	**49**	**9**	**38**	*99*
1:30 PM	**0**	**0**	**0**	**1**	***1***	**0**	**0**	**0**	**1**	***1***	**1**	**30**	**11**	**2**	*44*
1:45 PM	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**0**	***0***	**3**	**11**	**0**	**4**	***18***
2:00 PM	1	1	0	0	*2*	0	0	1	0	*1*	0	1	0	0	*1*
2:15 PM	0	1	1	1	*3*	0	0	0	0	*0*	0	1	0	3	*4*
2:30 PM	1	0	1	0	*2*	0	0	1	0	*1*	0	5	1	3	*9*
2:45 PM	0	0	0	0	*0*	0	0	0	0	*0*	0	1	0	0	*1*
Count Total	3	2	2	2	*9*	0	0	2	1	*3*	9	115	24	68	*216*
Peak Hour	**1**	**0**	**0**	**1**	***2***	**0**	**0**	**0**	**1**	***1***	**9**	**107**	**23**	**62**	***201***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	EIGHTH AVE Eastbound				EIGHTH AVE Westbound				PAGE ST Northbound				PAGE ST Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
1:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
1:15 PM	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	0
1:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	0
1:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**
2:00 PM	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2	4
2:15 PM	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	3	6
2:30 PM	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	7
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Count Total	0	1	0	2	0	1	1	0	0	0	2	0	0	1	1	0	9	0
Peak Hour	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**0**

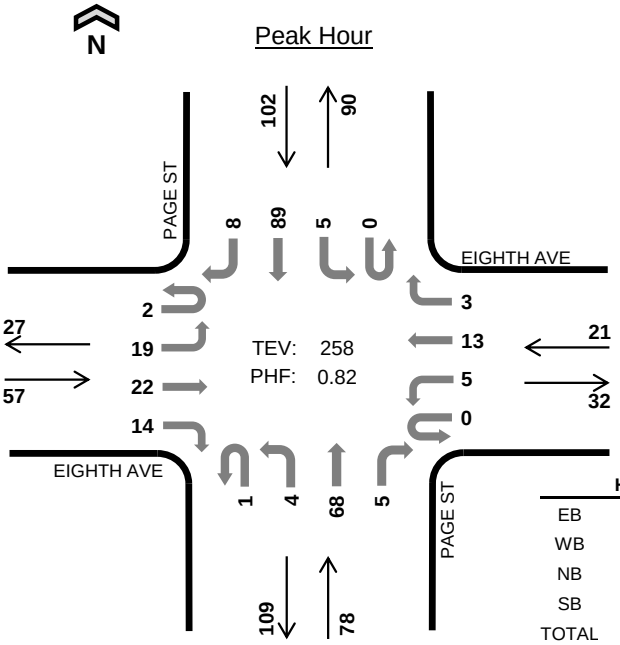
Two-Hour Count Summaries - Bikes

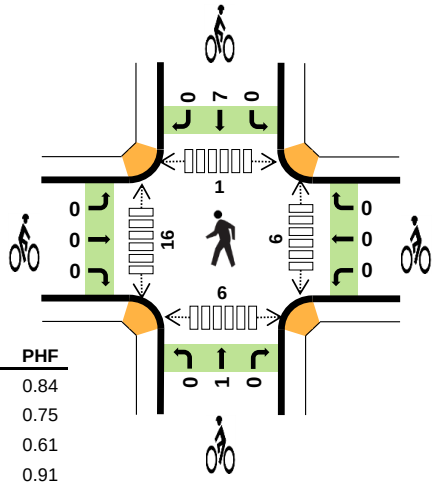
Interval Start	EIGHTH AVE Eastbound			EIGHTH AVE Westbound			PAGE ST Northbound			PAGE ST Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
1:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
1:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
1:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	0
1:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**
2:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	2
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	2
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Count Total	0	0	0	0	0	0	0	2	0	0	1	0	3	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

PAGE ST
EIGHTH AVE

Date: 10/12/2017
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 4:45 PM to 5:45 PM





	HV %:	PHF
EB	3.5%	0.84
WB	0.0%	0.75
NB	0.0%	0.61
SB	0.0%	0.91
TOTAL	0.8%	0.82

Two-Hour Count Summaries

Interval Start		EIGHTH AVE Eastbound				EIGHTH AVE Westbound				PAGE ST Northbound				PAGE ST Southbound				15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM		0	2	3	2	0	1	0	1	0	2	12	0	0	2	17	0	42	0
4:15 PM		0	1	4	0	0	1	3	2	0	1	4	2	0	0	19	3	40	0
4:30 PM		0	1	6	3	1	0	5	0	0	2	11	1	0	3	21	0	54	0
4:45 PM		**1**	**3**	**10**	**3**	**0**	**0**	**3**	**0**	**0**	**0**	**15**	**2**	**0**	**4**	**21**	**2**	**64**	200
5:00 PM		**0**	**5**	**2**	**3**	**0**	**2**	**4**	**1**	**0**	**1**	**16**	**0**	**0**	**1**	**18**	**2**	**55**	213
5:15 PM		**1**	**4**	**3**	**6**	**0**	**1**	**4**	**2**	**1**	**3**	**25**	**3**	**0**	**0**	**24**	**2**	**79**	252
5:30 PM		**0**	**7**	**7**	**2**	**0**	**2**	**2**	**0**	**0**	**0**	**12**	**0**	**0**	**0**	**26**	**2**	**60**	**258**
5:45 PM		0	4	4	4	0	0	2	1	0	0	18	2	0	1	22	1	59	253
Count Total		2	27	39	23	1	7	23	7	1	9	113	10	0	11	168	12	453	0
Peak Hour	**All**	**2**	**19**	**22**	**14**	**0**	**5**	**13**	**3**	**1**	**4**	**68**	**5**	**0**	**5**	**89**	**8**	**258**	**0**
	HV	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**
	HV%	**0%**	**0%**	**5%**	**7%**	**-**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**0%**	**-**	**0%**	**0%**	**0%**	**1%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	0	0	0	0	*0*	0	0	1	0	*1*	0	2	0	6	*8*
4:15 PM	0	0	0	0	*0*	0	0	0	4	*4*	0	0	1	0	*1*
4:30 PM	0	0	1	0	*1*	0	0	0	0	*0*	0	4	0	3	*7*
4:45 PM	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**0**	**3**	***3***	**0**	**5**	**0**	**2**	*7*
5:00 PM	**1**	**0**	**0**	**0**	***1***	**0**	**0**	**1**	**1**	***2***	**1**	**0**	**0**	**1**	*2*
5:15 PM	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**1**	***1***	**1**	**11**	**0**	**2**	*14*
5:30 PM	**0**	**0**	**0**	**0**	***0***	**0**	**0**	**0**	**2**	***2***	**4**	**0**	**1**	**1**	***6***
5:45 PM	0	0	0	0	*0*	0	0	0	1	*1*	1	6	3	1	*11*
Count Total	2	0	1	0	*3*	0	0	2	12	*14*	7	28	5	16	*56*
Peak Hour	**2**	**0**	**0**	**0**	***2***	**0**	**0**	**1**	**7**	***8***	**6**	**16**	**1**	**6**	***29***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	EIGHTH AVE Eastbound				EIGHTH AVE Westbound				PAGE ST Northbound				PAGE ST Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
4:45 PM	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	2
5:00 PM	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	3
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	3
5:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Count Total	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	3	0
Peak Hour	**0**	**0**	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**

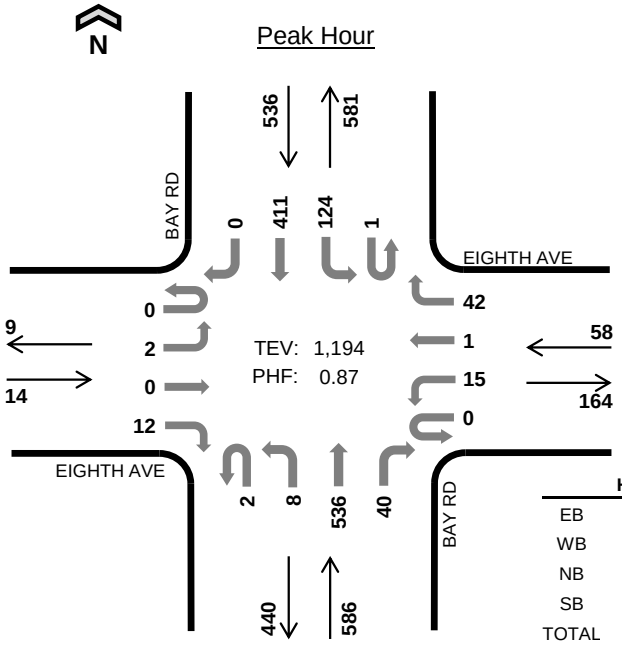
Two-Hour Count Summaries - Bikes

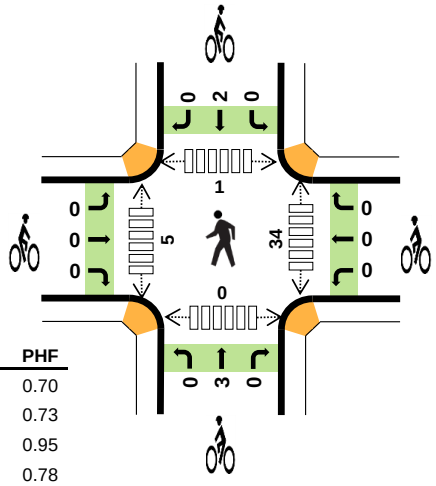
Interval Start	EIGHTH AVE Eastbound			EIGHTH AVE Westbound			PAGE ST Northbound			PAGE ST Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
4:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	4	0	4	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**3**	8
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**2**	9
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	6
5:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**2**	**8**
5:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	6
Count Total	0	0	0	0	0	0	0	2	0	0	12	0	14	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**7**	**0**	**8**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

BAY RD
EIGHTH AVE

Date: 10/12/2017
Count Period: 7:00 AM to 9:00 AM
Peak Hour: 7:15 AM to 8:15 AM





	HV %:	PHF
EB	0.0%	0.70
WB	0.0%	0.73
NB	2.7%	0.95
SB	2.6%	0.78
TOTAL	2.5%	0.87

Two-Hour Count Summaries

Interval Start		EIGHTH AVE Eastbound				EIGHTH AVE Westbound				BAY RD Northbound				BAY RD Southbound				15-min Total	Rolling One Hour
		UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM		0	0	0	0	0	0	0	6	0	1	137	2	0	8	69	0	223	0
7:15 AM		**0**	**1**	**0**	**3**	**0**	**7**	**0**	**8**	**0**	**0**	**125**	**13**	**1**	**15**	**96**	**0**	**269**	0
7:30 AM		**0**	**1**	**0**	**3**	**0**	**3**	**0**	**11**	**0**	**2**	**139**	**13**	**0**	**58**	**113**	**0**	**343**	0
7:45 AM		**0**	**0**	**0**	**5**	**0**	**5**	**1**	**14**	**1**	**2**	**139**	**7**	**0**	**35**	**103**	**0**	**312**	1,147
8:00 AM		**0**	**0**	**0**	**1**	**0**	**0**	**0**	**9**	**1**	**4**	**133**	**7**	**0**	**16**	**99**	**0**	**270**	**1,194**
8:15 AM		0	1	0	3	0	5	0	4	0	1	108	11	0	4	108	0	245	1,170
8:30 AM		0	0	0	1	1	2	0	8	0	1	82	5	0	4	102	0	206	1,033
8:45 AM		0	0	0	1	0	0	0	2	0	1	77	1	0	7	127	0	216	937
Count Total		0	3	0	17	1	22	1	62	2	12	940	59	1	147	817	0	2,084	0
Peak Hour	**All**	**0**	**2**	**0**	**12**	**0**	**15**	**1**	**42**	**2**	**8**	**536**	**40**	**1**	**124**	**411**	**0**	**1,194**	**0**
	HV	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**15**	**0**	**0**	**0**	**14**	**0**	**30**	**0**
	HV%	**-**	**0%**	**-**	**0%**	**-**	**0%**	**0%**	**0%**	**0%**	**13%**	**3%**	**0%**	**0%**	**0%**	**3%**	**-**	**3%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
7:00 AM	0	0	4	2	*6*	0	0	1	0	*1*	0	0	0	0	*0*
7:15 AM	**0**	**0**	**5**	**6**	***11***	**0**	**0**	**1**	**1**	***2***	**6**	**3**	**0**	**0**	*9*
7:30 AM	**0**	**0**	**1**	**2**	***3***	**0**	**0**	**2**	**0**	***2***	**7**	**0**	**0**	**0**	*7*
7:45 AM	**0**	**0**	**4**	**5**	***9***	**0**	**0**	**0**	**1**	***1***	**2**	**2**	**0**	**0**	*4*
8:00 AM	**0**	**0**	**6**	**1**	***7***	**0**	**0**	**0**	**0**	***0***	**19**	**0**	**1**	**0**	***20***
8:15 AM	0	0	3	6	*9*	0	0	0	0	*0*	5	3	0	1	*9*
8:30 AM	0	1	1	2	*4*	0	1	1	0	*2*	1	0	1	0	*2*
8:45 AM	0	0	2	4	*6*	0	0	0	0	*0*	0	0	0	0	*0*
Count Total	0	1	26	28	*55*	0	1	5	2	*8*	40	8	2	1	*51*
Peak Hour	**0**	**0**	**16**	**14**	***30***	**0**	**0**	**3**	**2**	***5***	**34**	**5**	**1**	**0**	***40***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	EIGHTH AVE Eastbound				EIGHTH AVE Westbound				BAY RD Northbound				BAY RD Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	0	0	0	4	0	0	0	2	0	6	0
7:15 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**	**0**	**0**	**0**	**6**	**0**	**11**	0
7:30 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**2**	**0**	**3**	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**0**	**5**	**0**	**9**	29
8:00 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**5**	**0**	**0**	**0**	**1**	**0**	**7**	**30**
8:15 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	6	0	9	28
8:30 AM	0	0	0	0	0	0	0	1	0	0	1	0	0	0	2	0	4	29
8:45 AM	0	0	0	0	0	0	0	0	0	1	1	0	0	0	4	0	6	26
Count Total	0	0	0	0	0	0	0	1	0	2	24	0	0	0	28	0	55	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**15**	**0**	**0**	**0**	**14**	**0**	**30**	**0**

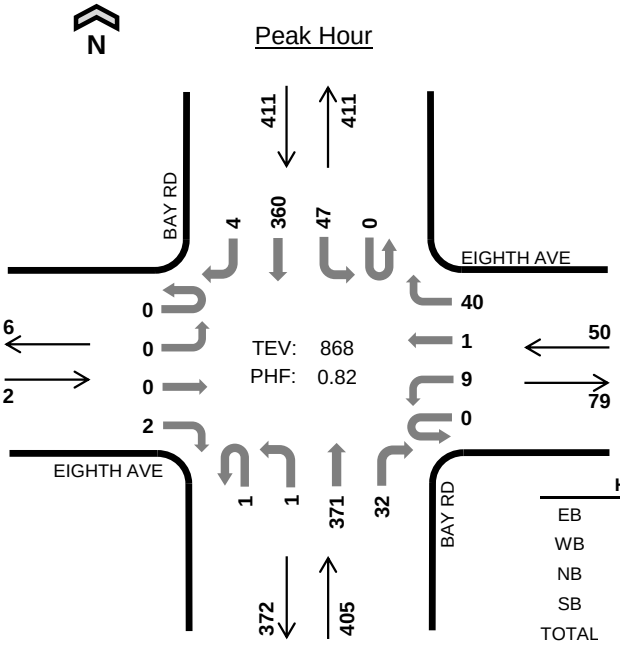
Two-Hour Count Summaries - Bikes

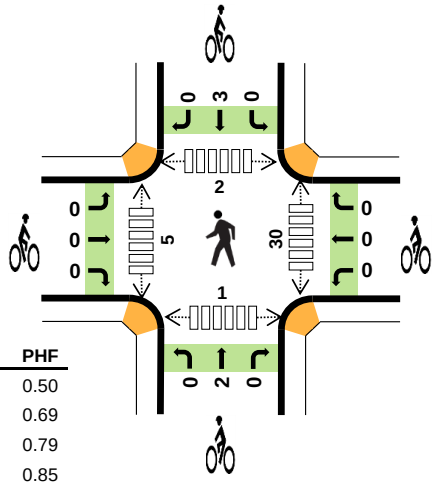
Interval Start	EIGHTH AVE Eastbound			EIGHTH AVE Westbound			BAY RD Northbound			BAY RD Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
7:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0
7:15 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**2**	0
7:30 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**0**	**2**	0
7:45 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	6
8:00 AM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	3
8:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	2	3
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Count Total	0	0	0	0	1	0	0	5	0	0	2	0	8	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**0**	**0**	**2**	**0**	**5**	**0**

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

BAY RD
EIGHTH AVE

Date: 10/12/2017
Count Period: 1:00 PM to 3:00 PM
Peak Hour: 1:00 PM to 2:00 PM





	HV %:	PHF
EB	0.0%	0.50
WB	0.0%	0.69
NB	3.2%	0.79
SB	3.4%	0.85
TOTAL	3.1%	0.82

Two-Hour Count Summaries

Interval Start	EIGHTH AVE Eastbound				EIGHTH AVE Westbound				BAY RD Northbound				BAY RD Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
1:00 PM	**0**	**0**	**0**	**1**	**0**	**5**	**1**	**12**	**0**	**0**	**74**	**19**	**0**	**20**	**91**	**3**	**226**	0
1:15 PM	**0**	**0**	**0**	**1**	**0**	**3**	**0**	**12**	**0**	**0**	**117**	**11**	**0**	**17**	**104**	**0**	**265**	0
1:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**14**	**1**	**0**	**109**	**2**	**0**	**8**	**90**	**1**	**225**	0
1:45 PM	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**2**	**0**	**1**	**71**	**0**	**0**	**2**	**75**	**0**	**152**	**868**
2:00 PM	0	0	0	1	0	1	0	2	0	0	88	7	0	3	80	1	183	825
2:15 PM	0	0	0	4	0	1	0	2	1	1	87	1	0	2	90	1	190	750
2:30 PM	0	0	0	2	0	0	0	5	0	0	85	3	0	5	139	0	239	764
2:45 PM	0	0	2	1	0	2	0	8	0	1	104	1	0	4	103	0	226	838
Count Total	0	0	2	10	0	13	1	57	2	3	735	44	0	61	772	6	1,706	0
Peak Hour All	**0**	**0**	**0**	**2**	**0**	**9**	**1**	**40**	**1**	**1**	**371**	**32**	**0**	**47**	**360**	**4**	**868**	**0**
Peak Hour HV	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**12**	**1**	**0**	**0**	**14**	**0**	**27**	**0**
Peak Hour HV%	**-**	**-**	**-**	**0%**	**-**	**0%**	**0%**	**0%**	**0%**	**0%**	**3%**	**3%**	**-**	**0%**	**4%**	**0%**	**3%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
1:00 PM	**0**	**0**	**4**	**4**	***8***	**0**	**0**	**0**	**0**	***0***	**15**	**0**	**0**	**1**	*16*
1:15 PM	**0**	**0**	**4**	**4**	***8***	**0**	**0**	**0**	**0**	***0***	**11**	**0**	**2**	**0**	*13*
1:30 PM	**0**	**0**	**5**	**2**	***7***	**0**	**0**	**1**	**2**	***3***	**3**	**2**	**0**	**0**	*5*
1:45 PM	**0**	**0**	**0**	**4**	***4***	**0**	**0**	**1**	**1**	***2***	**1**	**3**	**0**	**0**	***4***
2:00 PM	0	0	2	2	*4*	0	0	0	0	*0*	3	0	0	0	*3*
2:15 PM	1	0	4	5	*10*	0	0	0	0	*0*	1	0	0	0	*1*
2:30 PM	0	1	4	8	*13*	0	1	0	0	*1*	1	1	0	0	*2*
2:45 PM	0	0	3	3	*6*	0	0	0	1	*1*	5	1	0	1	*7*
Count Total	1	1	26	32	*60*	0	1	2	4	*7*	40	7	2	2	*51*
Peak Hour	**0**	**0**	**13**	**14**	***27***	**0**	**0**	**2**	**3**	***5***	**30**	**5**	**2**	**1**	***38***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	EIGHTH AVE Eastbound				EIGHTH AVE Westbound				BAY RD Northbound				BAY RD Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
1:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**0**	**4**	**0**	**8**	0
1:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**1**	**0**	**0**	**4**	**0**	**8**	0
1:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**	**0**	**0**	**0**	**2**	**0**	**7**	0
1:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**0**	**4**	**27**
2:00 PM	0	0	0	0	0	0	0	0	0	0	2	0	0	1	1	0	4	23
2:15 PM	0	0	0	1	0	0	0	0	0	0	4	0	0	0	5	0	10	25
2:30 PM	0	0	0	0	0	0	0	1	0	0	3	1	0	1	7	0	13	31
2:45 PM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	6	33
Count Total	0	0	0	1	0	0	0	1	0	0	24	2	0	2	30	0	60	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**12**	**1**	**0**	**0**	**14**	**0**	**27**	**0**

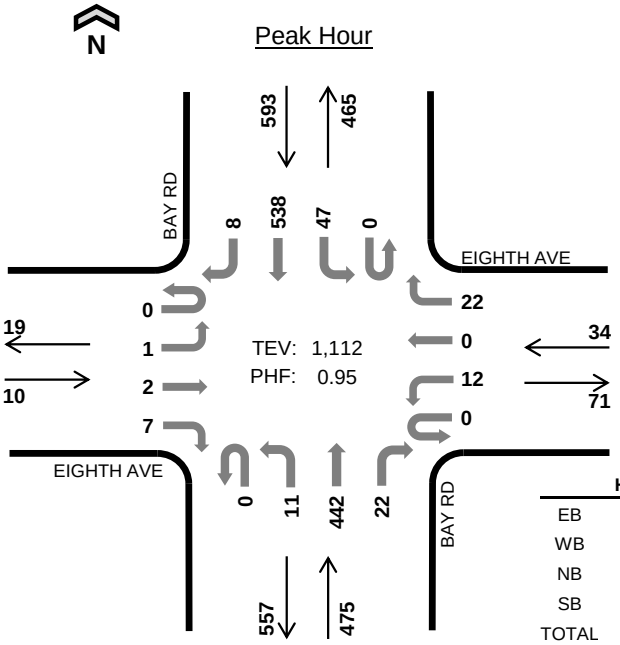
Two-Hour Count Summaries - Bikes

Interval Start	EIGHTH AVE Eastbound			EIGHTH AVE Westbound			BAY RD Northbound			BAY RD Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
1:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
1:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	0
1:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**2**	**0**	**3**	0
1:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**0**	**2**	**5**
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	5
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	5
2:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	1	3
2:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	2
Count Total	0	0	0	0	0	1	0	2	0	0	4	0	7	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**3**	**0**	**5**	**0**

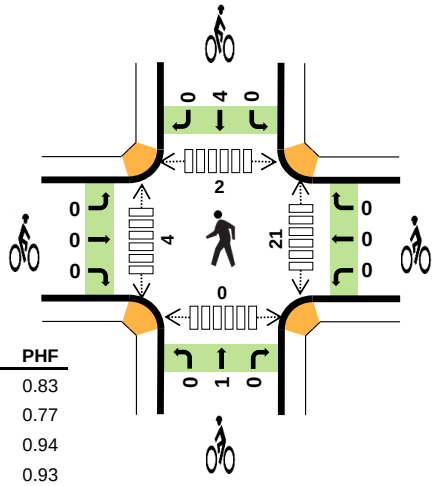
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

BAY RD
EIGHTH AVE

Date: 10/12/2017
Count Period: 4:00 PM to 6:00 PM
Peak Hour: 4:45 PM to 5:45 PM



	HV %:	PHF
EB	0.0%	0.83
WB	0.0%	0.77
NB	1.5%	0.94
SB	1.0%	0.93
TOTAL	1.2%	0.95



Two-Hour Count Summaries

Interval Start	EIGHTH AVE Eastbound				EIGHTH AVE Westbound				BAY RD Northbound				BAY RD Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	0	0	0	1	0	4	0	4	91	2	0	5	135	6	248	0
4:15 PM	0	0	0	2	0	1	0	6	0	0	63	1	1	6	122	1	203	0
4:30 PM	0	0	0	0	0	2	0	7	0	0	98	4	0	12	135	3	261	0
4:45 PM	**0**	**0**	**0**	**1**	**0**	**6**	**0**	**4**	**0**	**0**	**99**	**9**	**0**	**15**	**129**	**1**	**264**	976
5:00 PM	**0**	**1**	**0**	**2**	**0**	**4**	**0**	**7**	**0**	**3**	**106**	**6**	**0**	**6**	**137**	**4**	**276**	1,004
5:15 PM	**0**	**0**	**1**	**2**	**0**	**2**	**0**	**7**	**0**	**3**	**121**	**3**	**0**	**12**	**127**	**2**	**280**	1,081
5:30 PM	**0**	**0**	**1**	**2**	**0**	**0**	**0**	**4**	**0**	**5**	**116**	**4**	**0**	**14**	**145**	**1**	**292**	**1,112**
5:45 PM	0	0	1	3	0	1	0	7	0	1	103	6	0	6	132	1	261	1,109
Count Total	0	1	3	12	0	17	0	46	0	16	797	35	1	76	1,062	19	2,085	0
Peak Hour All	**0**	**1**	**2**	**7**	**0**	**12**	**0**	**22**	**0**	**11**	**442**	**22**	**0**	**47**	**538**	**8**	**1,112**	**0**
Peak Hour HV	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**1**	**0**	**1**	**5**	**0**	**13**	**0**
Peak Hour HV%	**-**	**0%**	**0%**	**0%**	**-**	**0%**	**-**	**0%**	**-**	**0%**	**1%**	**5%**	**-**	**2%**	**1%**	**0%**	**1%**	**0**

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

Interval Start	Heavy Vehicle Totals					Bicycles					Pedestrians (Crossing Leg)				
	EB	WB	NB	SB	Total	EB	WB	NB	SB	Total	East	West	North	South	Total
4:00 PM	0	0	4	2	*6*	0	0	0	3	*3*	0	3	0	0	*3*
4:15 PM	0	0	1	2	*3*	0	0	1	0	*1*	0	4	0	0	*4*
4:30 PM	0	0	4	1	*5*	0	0	1	0	*1*	7	1	2	0	*10*
4:45 PM	**0**	**0**	**1**	**2**	***3***	**0**	**0**	**0**	**0**	***0***	**4**	**1**	**1**	**0**	*6*
5:00 PM	**0**	**0**	**3**	**1**	***4***	**0**	**0**	**1**	**3**	***4***	**1**	**2**	**1**	**0**	*4*
5:15 PM	**0**	**0**	**1**	**1**	***2***	**0**	**0**	**0**	**1**	***1***	**4**	**1**	**0**	**0**	*5*
5:30 PM	**0**	**0**	**2**	**2**	***4***	**0**	**0**	**0**	**0**	***0***	**12**	**0**	**0**	**0**	***12***
5:45 PM	0	0	1	2	*3*	0	0	1	2	*3*	3	5	0	0	*8*
Count Total	0	0	17	13	*30*	0	0	4	9	*13*	31	17	4	0	*52*
Peak Hour	**0**	**0**	**7**	**6**	***13***	**0**	**0**	**1**	**4**	***5***	**21**	**4**	**2**	**0**	***27***

Two-Hour Count Summaries - Heavy Vehicles

Interval Start	EIGHTH AVE Eastbound				EIGHTH AVE Westbound				BAY RD Northbound				BAY RD Southbound				15-min Total	Rolling One Hour
	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT	UT	LT	TH	RT		
4:00 PM	0	0	0	0	0	0	0	0	0	0	4	0	0	0	2	0	6	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	3	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	4	0	0	0	1	0	5	0
4:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**1**	**1**	**0**	**3**	17
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**1**	**0**	**0**	**1**	**0**	**4**	15
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**2**	14
5:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**0**	**0**	**0**	**2**	**0**	**4**	**13**
5:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	3	13
Count Total	0	0	0	0	0	0	0	0	0	0	16	1	0	1	12	0	30	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**1**	**0**	**1**	**5**	**0**	**13**	**0**

Two-Hour Count Summaries - Bikes

Interval Start	EIGHTH AVE Eastbound			EIGHTH AVE Westbound			BAY RD Northbound			BAY RD Southbound			15-min Total	Rolling One Hour
	LT	TH	RT	LT	TH	RT	LT	TH	RT	LT	TH	RT		
4:00 PM	0	0	0	0	0	0	0	0	0	0	3	0	3	0
4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0
4:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0
4:45 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	5
5:00 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**3**	**0**	**4**	6
5:15 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	6
5:30 PM	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**5**
5:45 PM	0	0	0	0	0	0	0	1	0	0	2	0	3	8
Count Total	0	0	0	0	0	0	0	4	0	0	9	0	13	0
Peak Hour	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**0**	**4**	**0**	**5**	**0**

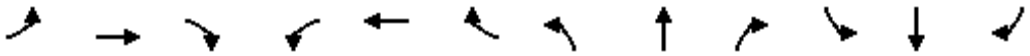
Note: U-Turn volumes for bikes are included in Left-Turn, if any.

Appendix C – Existing Conditions Intersections Level of Service Worksheets

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	8	148	474	34	53	387
Future Volume (Veh/h)	8	148	474	34	53	387
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.89	0.89	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	9	166	499	36	58	421
Pedestrians	68		63			
Lane Width (ft)	12.0		12.0			
Walking Speed (ft/s)	3.5		3.5			
Percent Blockage	6		6			
Right turn flare (veh)						
Median type			TWLTL			None
Median storage veh)			2			
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	1185	585			603	
vC1, stage 1 conf vol	585					
vC2, stage 2 conf vol	600					
vCu, unblocked vol	1185	585			603	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	5.4					
tF (s)	3.5	3.3			2.2	
p0 queue free %	98	65			94	
cM capacity (veh/h)	381	478			911	

Direction, Lane #	WB 1	NB 1	SB 1	SB 2
Volume Total	175	535	58	421
Volume Left	9	0	58	0
Volume Right	166	36	0	0
cSH	472	1700	911	1700
Volume to Capacity	0.37	0.31	0.06	0.25
Queue Length 95th (ft)	42	0	5	0
Control Delay (s)	17.1	0.0	9.2	0.0
Lane LOS	C		A	
Approach Delay (s)	17.1	0.0	1.1	
Approach LOS	C			

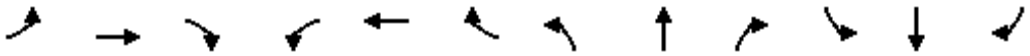
Intersection Summary			
Average Delay	3.0		
Intersection Capacity Utilization	50.3%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	20	7	18	8	30	15	42	67	5	5	45	62
Future Volume (vph)	20	7	18	8	30	15	42	67	5	5	45	62
Peak Hour Factor	0.75	0.75	0.75	0.88	0.88	0.88	0.92	0.92	0.92	0.78	0.78	0.78
Hourly flow rate (vph)	27	9	24	9	34	17	46	73	5	6	58	79

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	60	60	124	143
Volume Left (vph)	27	9	46	6
Volume Right (vph)	24	17	5	79
Hadj (s)	-0.12	-0.11	0.08	-0.29
Departure Headway (s)	4.4	4.5	4.4	4.0
Degree Utilization, x	0.07	0.07	0.15	0.16
Capacity (veh/h)	750	749	784	862
Control Delay (s)	7.8	7.8	8.2	7.8
Approach Delay (s)	7.8	7.8	8.2	7.8
Approach LOS	A	A	A	A

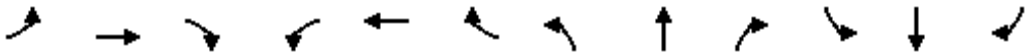
Intersection Summary				
Delay	7.9			
Level of Service	A			
Intersection Capacity Utilization	30.4%	ICU Level of Service	A	
Analysis Period (min)	15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	102	13	48	10	16	14	14	113	6	7	66	12
Future Volume (Veh/h)	102	13	48	10	16	14	14	113	6	7	66	12
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.62	0.62	0.62	0.77	0.77	0.77	0.76	0.76	0.76	0.89	0.89	0.89
Hourly flow rate (vph)	165	21	77	13	21	18	18	149	8	8	74	13
Pedestrians		75			11			30			22	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		7			1			3			2	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	411	376	186	414	378	186	162			168		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	411	376	186	414	378	186	162			168		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	62	96	90	97	96	98	99			99		
cM capacity (veh/h)	439	501	773	425	499	829	1316			1395		

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total	263	52	175	95
Volume Left	165	13	18	8
Volume Right	77	18	8	13
cSH	508	551	1316	1395
Volume to Capacity	0.52	0.09	0.01	0.01
Queue Length 95th (ft)	73	8	1	0
Control Delay (s)	19.4	12.2	0.9	0.7
Lane LOS	C	B	A	A
Approach Delay (s)	19.4	12.2	0.9	0.7
Approach LOS	C	B		

Intersection Summary				
Average Delay	10.2			
Intersection Capacity Utilization	36.2%	ICU Level of Service	A	
Analysis Period (min)	15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	0	12	15	1	42	10	536	40	125	411	0
Future Volume (Veh/h)	2	0	12	15	1	42	10	536	40	125	411	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.70	0.70	0.70	0.73	0.73	0.73	0.95	0.95	0.95	0.78	0.78	0.78
Hourly flow rate (vph)	3	0	17	21	1	58	11	564	42	160	527	0
Pedestrians		5			34						1	
Lane Width (ft)		12.0			12.0						12.0	
Walking Speed (ft/s)		3.5			3.5						3.5	
Percent Blockage		0			3						0	
Right turn flare (veh)												
Median type								None			TWLTL	
Median storage veh)											2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1498	1514	532	1505	1493	620	532			640		
vC1, stage 1 conf vol	852	852		641	641							
vC2, stage 2 conf vol	646	662		864	852							
vCu, unblocked vol	1498	1514	532	1505	1493	620	532			640		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	98	100	97	91	100	88	99			82		
cM capacity (veh/h)	193	221	545	233	257	472	1031			914		

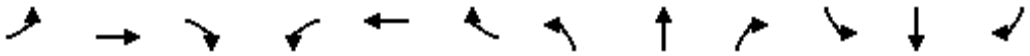
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	20	80	11	606	160	527
Volume Left	3	21	11	0	160	0
Volume Right	17	58	0	42	0	0
cSH	428	369	1031	1700	914	1700
Volume to Capacity	0.05	0.22	0.01	0.36	0.18	0.31
Queue Length 95th (ft)	4	20	1	0	16	0
Control Delay (s)	13.8	17.4	8.5	0.0	9.8	0.0
Lane LOS	B	C	A		A	
Approach Delay (s)	13.8	17.4	0.2		2.3	
Approach LOS	B	C				

Intersection Summary				
Average Delay	2.4			
Intersection Capacity Utilization	54.0%	ICU Level of Service		A
Analysis Period (min)	15			

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	6	36	343	9	36	397
Future Volume (Veh/h)	6	36	343	9	36	397
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.75	0.75	0.95	0.95	0.79	0.79
Hourly flow rate (vph)	8	48	361	9	46	503
Pedestrians	8					6
Lane Width (ft)	12.0					12.0
Walking Speed (ft/s)	3.5					3.5
Percent Blockage	1					1
Right turn flare (veh)						
Median type			TWLTL			None
Median storage veh)			2			
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	968	380			378	
vC1, stage 1 conf vol	374					
vC2, stage 2 conf vol	595					
vCu, unblocked vol	968	380			378	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	5.4					
tF (s)	3.5	3.3			2.2	
p0 queue free %	98	93			96	
cM capacity (veh/h)	468	659			1171	

Direction, Lane #	WB 1	NB 1	SB 1	SB 2
Volume Total	56	370	46	503
Volume Left	8	0	46	0
Volume Right	48	9	0	0
cSH	622	1700	1171	1700
Volume to Capacity	0.09	0.22	0.04	0.30
Queue Length 95th (ft)	7	0	3	0
Control Delay (s)	11.4	0.0	8.2	0.0
Lane LOS	B		A	
Approach Delay (s)	11.4	0.0	0.7	
Approach LOS	B			

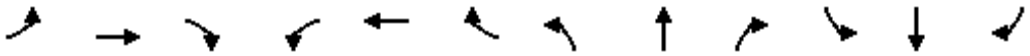
Intersection Summary			
Average Delay	1.0		
Intersection Capacity Utilization	37.1%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	32	15	11	1	9	6	12	24	2	13	20	49
Future Volume (vph)	32	15	11	1	9	6	12	24	2	13	20	49
Peak Hour Factor	0.54	0.54	0.54	0.80	0.80	0.80	0.73	0.73	0.73	0.82	0.82	0.82
Hourly flow rate (vph)	59	28	20	1	11	8	16	33	3	16	24	60

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	107	20	52	100
Volume Left (vph)	59	1	16	16
Volume Right (vph)	20	8	3	60
Hadj (s)	0.03	-0.20	0.06	-0.29
Departure Headway (s)	4.3	4.1	4.3	3.9
Degree Utilization, x	0.13	0.02	0.06	0.11
Capacity (veh/h)	811	827	792	879
Control Delay (s)	7.9	7.2	7.6	7.4
Approach Delay (s)	7.9	7.2	7.6	7.4
Approach LOS	A	A	A	A

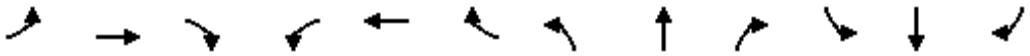
Intersection Summary				
Delay	7.6			
Level of Service	A			
Intersection Capacity Utilization	29.4%	ICU Level of Service	A	
Analysis Period (min)	15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	33	19	29	5	10	8	12	50	2	10	42	13
Future Volume (Veh/h)	33	19	29	5	10	8	12	50	2	10	42	13
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.63	0.63	0.63	0.52	0.52	0.52	0.70	0.70	0.70	0.74	0.74	0.74
Hourly flow rate (vph)	52	30	46	10	19	15	17	71	3	14	57	18
Pedestrians		107			9			62			23	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		10			1			6			2	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	355	318	235	332	326	104	182			83		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	355	318	235	332	326	104	182			83		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	89	94	93	98	96	98	99			99		
cM capacity (veh/h)	454	521	679	465	516	921	1251			1501		

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total	128	44	91	89
Volume Left	52	10	17	14
Volume Right	46	15	3	18
cSH	534	590	1251	1501
Volume to Capacity	0.24	0.07	0.01	0.01
Queue Length 95th (ft)	23	6	1	1
Control Delay (s)	13.9	11.6	1.6	1.2
Lane LOS	B	B	A	A
Approach Delay (s)	13.9	11.6	1.6	1.2
Approach LOS	B	B		

Intersection Summary				
Average Delay	7.2			
Intersection Capacity Utilization	32.7%	ICU Level of Service	A	
Analysis Period (min)	15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	2	9	1	40	2	371	32	47	360	4
Future Volume (Veh/h)	0	0	2	9	1	40	2	371	32	47	360	4
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.50	0.50	0.50	0.69	0.69	0.69	0.79	0.79	0.79	0.85	0.85	0.85
Hourly flow rate (vph)	0	0	4	13	1	58	3	470	41	55	424	5
Pedestrians		5			30			1			2	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		0			3			0			0	
Right turn flare (veh)												
Median type								None			TWLTL	
Median storage veh)											2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1078	1088	432	1066	1070	522	434			541		
vC1, stage 1 conf vol	542	542		526	526							
vC2, stage 2 conf vol	536	547		539	544							
vCu, unblocked vol	1078	1088	432	1066	1070	522	434			541		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	100	99	97	100	89	100			94		
cM capacity (veh/h)	343	367	620	386	389	537	1120			998		

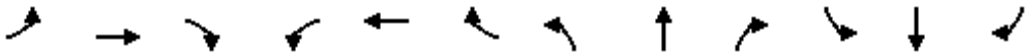
Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	4	72	3	511	55	429
Volume Left	0	13	3	0	55	0
Volume Right	4	58	0	41	0	5
cSH	620	500	1120	1700	998	1700
Volume to Capacity	0.01	0.14	0.00	0.30	0.06	0.25
Queue Length 95th (ft)	0	13	0	0	4	0
Control Delay (s)	10.8	13.4	8.2	0.0	8.8	0.0
Lane LOS	B	B	A		A	
Approach Delay (s)	10.8	13.4	0.0		1.0	
Approach LOS	B	B				

Intersection Summary				
Average Delay	1.4			
Intersection Capacity Utilization	45.1%	ICU Level of Service		A
Analysis Period (min)	15			

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	22	70	405	39	82	464
Future Volume (Veh/h)	22	70	405	39	82	464
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.82	0.82	0.94	0.94	0.96	0.96
Hourly flow rate (vph)	27	85	431	41	85	483
Pedestrians	39					
Lane Width (ft)	12.0					
Walking Speed (ft/s)	3.5					
Percent Blockage	4					
Right turn flare (veh)						
Median type			TWLTL			None
Median storage veh)			2			
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	1144	490			511	
vC1, stage 1 conf vol	490					
vC2, stage 2 conf vol	653					
vCu, unblocked vol	1144	490			511	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	5.4					
tF (s)	3.5	3.3			2.2	
p0 queue free %	93	85			92	
cM capacity (veh/h)	402	556			1015	

Direction, Lane #	WB 1	NB 1	SB 1	SB 2
Volume Total	112	472	85	483
Volume Left	27	0	85	0
Volume Right	85	41	0	0
cSH	509	1700	1015	1700
Volume to Capacity	0.22	0.28	0.08	0.28
Queue Length 95th (ft)	21	0	7	0
Control Delay (s)	14.1	0.0	8.9	0.0
Lane LOS	B		A	
Approach Delay (s)	14.1	0.0	1.3	
Approach LOS	B			

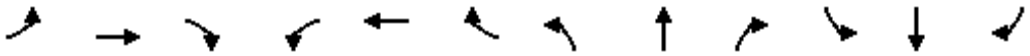
Intersection Summary			
Average Delay	2.0		
Intersection Capacity Utilization	44.0%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	17	23	16	3	17	8	18	68	6	10	63	29
Future Volume (vph)	17	23	16	3	17	8	18	68	6	10	63	29
Peak Hour Factor	0.74	0.74	0.74	0.58	0.58	0.58	0.79	0.79	0.79	0.77	0.77	0.77
Hourly flow rate (vph)	23	31	22	5	29	14	23	86	8	13	82	38

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	76	48	117	133
Volume Left (vph)	23	5	23	13
Volume Right (vph)	22	14	8	38
Hadj (s)	-0.08	-0.12	0.03	-0.12
Departure Headway (s)	4.4	4.4	4.4	4.2
Degree Utilization, x	0.09	0.06	0.14	0.16
Capacity (veh/h)	755	754	792	817
Control Delay (s)	7.9	7.7	8.1	8.0
Approach Delay (s)	7.9	7.7	8.1	8.0
Approach LOS	A	A	A	A

Intersection Summary				
Delay	8.0			
Level of Service	A			
Intersection Capacity Utilization	25.8%	ICU Level of Service	A	
Analysis Period (min)	15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	22	14	5	13	3	5	68	5	5	89	8
Future Volume (Veh/h)	21	22	14	5	13	3	5	68	5	5	89	8
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.84	0.84	0.84	0.75	0.75	0.75	0.61	0.61	0.61	0.91	0.91	0.91
Hourly flow rate (vph)	25	26	17	7	17	4	8	111	8	5	98	9
Pedestrians		16			6			6			1	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		2			1			1			0	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	273	270	124	286	270	122	123			125		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	273	270	124	286	270	122	123			125		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	96	96	98	99	97	100	99			100		
cM capacity (veh/h)	637	618	907	612	618	923	1442			1453		

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total	68	28	127	112
Volume Left	25	7	8	5
Volume Right	17	4	8	9
cSH	679	647	1442	1453
Volume to Capacity	0.10	0.04	0.01	0.00
Queue Length 95th (ft)	8	3	0	0
Control Delay (s)	10.9	10.8	0.5	0.4
Lane LOS	B	B	A	A
Approach Delay (s)	10.9	10.8	0.5	0.4
Approach LOS	B	B		

Intersection Summary				
Average Delay	3.4			
Intersection Capacity Utilization	22.9%	ICU Level of Service	A	
Analysis Period (min)	15			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	2	7	12	0	22	11	442	22	47	538	8
Future Volume (Veh/h)	1	2	7	12	0	22	11	442	22	47	538	8
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.83	0.83	0.83	0.77	0.77	0.77	0.94	0.94	0.94	0.93	0.93	0.93
Hourly flow rate (vph)	1	2	8	16	0	29	12	470	23	51	578	9
Pedestrians		4			21						2	
Lane Width (ft)		12.0			12.0						12.0	
Walking Speed (ft/s)		3.5			3.5						3.5	
Percent Blockage		0			2						0	
Right turn flare (veh)												
Median type								None			TWLTL	
Median storage veh)											2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1214	1226	586	1216	1220	504	591			514		
vC1, stage 1 conf vol	688	688		526	526							
vC2, stage 2 conf vol	525	538		689	693							
vCu, unblocked vol	1214	1226	586	1216	1220	504	591			514		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	99	98	95	100	95	99			95		
cM capacity (veh/h)	325	338	508	332	346	555	981			1031		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	11	45	12	493	51	587
Volume Left	1	16	12	0	51	0
Volume Right	8	29	0	23	0	9
cSH	445	448	981	1700	1031	1700
Volume to Capacity	0.02	0.10	0.01	0.29	0.05	0.35
Queue Length 95th (ft)	2	8	1	0	4	0
Control Delay (s)	13.3	13.9	8.7	0.0	8.7	0.0
Lane LOS	B	B	A		A	
Approach Delay (s)	13.3	13.9	0.2		0.7	
Approach LOS	B	B				

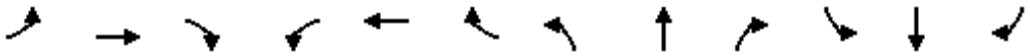
Intersection Summary				
Average Delay	1.1			
Intersection Capacity Utilization	47.8%	ICU Level of Service		A
Analysis Period (min)	15			

Appendix D – Existing plus Project Conditions Intersections Level of Service Worksheets

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	8	171	476	40	68	387
Future Volume (Veh/h)	8	171	476	40	68	387
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.89	0.89	0.95	0.95	0.92	0.92
Hourly flow rate (vph)	9	192	501	42	74	421
Pedestrians	68		63			
Lane Width (ft)	12.0		12.0			
Walking Speed (ft/s)	3.5		3.5			
Percent Blockage	6		6			
Right turn flare (veh)						
Median type			TWLTL			None
Median storage veh)			2			
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	1222	590			611	
vC1, stage 1 conf vol	590					
vC2, stage 2 conf vol	632					
vCu, unblocked vol	1222	590			611	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	5.4					
tF (s)	3.5	3.3			2.2	
p0 queue free %	98	60			92	
cM capacity (veh/h)	367	475			905	

Direction, Lane #	WB 1	NB 1	SB 1	SB 2
Volume Total	201	543	74	421
Volume Left	9	0	74	0
Volume Right	192	42	0	0
cSH	468	1700	905	1700
Volume to Capacity	0.43	0.32	0.08	0.25
Queue Length 95th (ft)	53	0	7	0
Control Delay (s)	18.3	0.0	9.3	0.0
Lane LOS	C		A	
Approach Delay (s)	18.3	0.0	1.4	
Approach LOS	C			

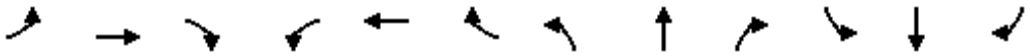
Intersection Summary			
Average Delay	3.5		
Intersection Capacity Utilization	52.6%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	31	7	36	8	30	15	61	67	5	5	45	73
Future Volume (vph)	31	7	36	8	30	15	61	67	5	5	45	73
Peak Hour Factor	0.75	0.75	0.75	0.88	0.88	0.88	0.92	0.92	0.92	0.78	0.78	0.78
Hourly flow rate (vph)	41	9	48	9	34	17	66	73	5	6	58	94

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	98	60	144	158
Volume Left (vph)	41	9	66	6
Volume Right (vph)	48	17	5	94
Hadj (s)	-0.18	-0.11	0.10	-0.32
Departure Headway (s)	4.5	4.6	4.5	4.1
Degree Utilization, x	0.12	0.08	0.18	0.18
Capacity (veh/h)	742	720	756	826
Control Delay (s)	8.1	8.0	8.6	8.0
Approach Delay (s)	8.1	8.0	8.6	8.0
Approach LOS	A	A	A	A

Intersection Summary				
Delay	8.2			
Level of Service	A			
Intersection Capacity Utilization	32.9%	ICU Level of Service	A	
Analysis Period (min)	15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	102	18	48	17	24	14	22	113	17	7	70	12
Future Volume (Veh/h)	102	18	48	17	24	14	22	113	17	7	70	12
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.62	0.62	0.62	0.77	0.77	0.77	0.76	0.76	0.76	0.89	0.89	0.89
Hourly flow rate (vph)	165	29	77	22	31	18	29	149	22	8	79	13
Pedestrians		75			11			30			22	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		7			1			3			2	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	450	416	190	452	412	193	167			182		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	450	416	190	452	412	193	167			182		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	59	94	90	94	93	98	98			99		
cM capacity (veh/h)	403	471	768	392	473	822	1310			1379		

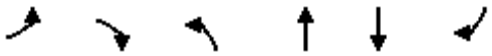
Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total	271	71	200	100
Volume Left	165	22	29	8
Volume Right	77	18	22	13
cSH	475	495	1310	1379
Volume to Capacity	0.57	0.14	0.02	0.01
Queue Length 95th (ft)	88	12	2	0
Control Delay (s)	22.2	13.5	1.3	0.7
Lane LOS	C	B	A	A
Approach Delay (s)	22.2	13.5	1.3	0.7
Approach LOS	C	B		

Intersection Summary				
Average Delay	11.4			
Intersection Capacity Utilization	37.0%	ICU Level of Service	A	
Analysis Period (min)	15			

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	2	4	15	15	1	52	17	543	42	135	417	0
Future Volume (Veh/h)	2	4	15	15	1	52	17	543	42	135	417	0
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.70	0.70	0.70	0.73	0.73	0.73	0.95	0.95	0.95	0.78	0.78	0.78
Hourly flow rate (vph)	3	6	21	21	1	71	18	572	44	173	535	0
Pedestrians		5			34						1	
Lane Width (ft)		12.0			12.0						12.0	
Walking Speed (ft/s)		3.5			3.5						3.5	
Percent Blockage		0			3						0	
Right turn flare (veh)												
Median type								None			TWLTL	
Median storage veh)											2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1566	1572	540	1569	1550	629	540			650		
vC1, stage 1 conf vol	886	886		664	664							
vC2, stage 2 conf vol	680	686		905	886							
vCu, unblocked vol	1566	1572	540	1569	1550	629	540			650		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	98	97	96	90	100	85	98			81		
cM capacity (veh/h)	164	203	539	208	239	466	1024			906		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	30	93	18	616	173	535
Volume Left	3	21	18	0	173	0
Volume Right	21	71	0	44	0	0
cSH	345	361	1024	1700	906	1700
Volume to Capacity	0.09	0.26	0.02	0.36	0.19	0.31
Queue Length 95th (ft)	7	25	1	0	18	0
Control Delay (s)	16.4	18.4	8.6	0.0	9.9	0.0
Lane LOS	C	C	A		A	
Approach Delay (s)	16.4	18.4	0.2		2.4	
Approach LOS	C	C				

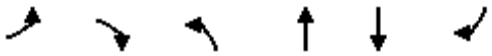
Intersection Summary				
Average Delay	2.8			
Intersection Capacity Utilization	56.7%	ICU Level of Service	B	
Analysis Period (min)	15			



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	0	0	21	74	134	30
Future Volume (Veh/h)	0	0	21	74	134	30
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	23	80	146	33
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	288	162	179			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	288	162	179			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	98			
cM capacity (veh/h)	690	882	1397			

Direction, Lane #	NB 1	SB 1
Volume Total	103	179
Volume Left	23	0
Volume Right	0	33
cSH	1397	1700
Volume to Capacity	0.02	0.11
Queue Length 95th (ft)	1	0
Control Delay (s)	1.8	0.0
Lane LOS	A	
Approach Delay (s)	1.8	0.0
Approach LOS		

Intersection Summary			
Average Delay	0.7		
Intersection Capacity Utilization	20.6%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	29	23	0	66	134	0
Future Volume (Veh/h)	29	23	0	66	134	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	32	25	0	72	146	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	218	146	146			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	218	146	146			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	96	97	100			
cM capacity (veh/h)	770	901	1436			

Direction, Lane #	EB 1	NB 1	SB 1
Volume Total	57	72	146
Volume Left	32	0	0
Volume Right	25	0	0
cSH	823	1700	1700
Volume to Capacity	0.07	0.04	0.09
Queue Length 95th (ft)	6	0	0
Control Delay (s)	9.7	0.0	0.0
Lane LOS	A		
Approach Delay (s)	9.7	0.0	0.0
Approach LOS	A		

Intersection Summary			
Average Delay	2.0		
Intersection Capacity Utilization	17.1%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	10	5	163	16	16	42
Future Volume (Veh/h)	10	5	163	16	16	42
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	11	5	177	17	17	46
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	266	186			194	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	266	186			194	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	98	99			99	
cM capacity (veh/h)	715	857			1379	

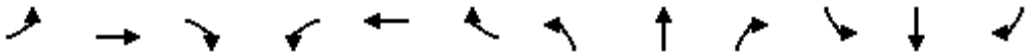
Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	16	194	63
Volume Left	11	0	17
Volume Right	5	17	0
cSH	754	1700	1379
Volume to Capacity	0.02	0.11	0.01
Queue Length 95th (ft)	2	0	1
Control Delay (s)	9.9	0.0	2.1
Lane LOS	A		A
Approach Delay (s)	9.9	0.0	2.1
Approach LOS	A		

Intersection Summary			
Average Delay	1.1		
Intersection Capacity Utilization	26.2%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	6	59	345	15	51	397
Future Volume (Veh/h)	6	59	345	15	51	397
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.75	0.75	0.95	0.95	0.79	0.79
Hourly flow rate (vph)	8	79	363	16	65	503
Pedestrians	8					6
Lane Width (ft)	12.0					12.0
Walking Speed (ft/s)	3.5					3.5
Percent Blockage	1					1
Right turn flare (veh)						
Median type			TWLTL			None
Median storage veh)			2			
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	1012	385			387	
vC1, stage 1 conf vol	379					
vC2, stage 2 conf vol	633					
vCu, unblocked vol	1012	385			387	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	5.4					
tF (s)	3.5	3.3			2.2	
p0 queue free %	98	88			94	
cM capacity (veh/h)	445	654			1163	

Direction, Lane #	WB 1	NB 1	SB 1	SB 2
Volume Total	87	379	65	503
Volume Left	8	0	65	0
Volume Right	79	16	0	0
cSH	627	1700	1163	1700
Volume to Capacity	0.14	0.22	0.06	0.30
Queue Length 95th (ft)	12	0	4	0
Control Delay (s)	11.7	0.0	8.3	0.0
Lane LOS	B		A	
Approach Delay (s)	11.7	0.0	0.9	
Approach LOS	B			

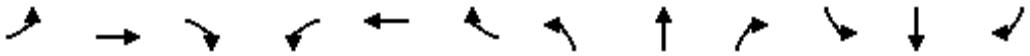
Intersection Summary			
Average Delay	1.5		
Intersection Capacity Utilization	38.6%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	43	15	29	1	9	6	31	24	2	13	20	60
Future Volume (vph)	43	15	29	1	9	6	31	24	2	13	20	60
Peak Hour Factor	0.54	0.54	0.54	0.80	0.80	0.80	0.73	0.73	0.73	0.82	0.82	0.82
Hourly flow rate (vph)	80	28	54	1	11	8	42	33	3	16	24	73

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	162	20	78	113
Volume Left (vph)	80	1	42	16
Volume Right (vph)	54	8	3	73
Hadj (s)	-0.07	-0.20	0.12	-0.33
Departure Headway (s)	4.3	4.3	4.6	4.1
Degree Utilization, x	0.19	0.02	0.10	0.13
Capacity (veh/h)	806	777	750	831
Control Delay (s)	8.3	7.4	8.1	7.7
Approach Delay (s)	8.3	7.4	8.1	7.7
Approach LOS	A	A	A	A

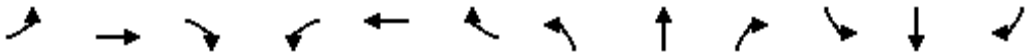
Intersection Summary				
Delay	8.0			
Level of Service	A			
Intersection Capacity Utilization	30.8%	ICU Level of Service	A	
Analysis Period (min)	15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	33	24	29	12	18	8	20	50	13	10	46	13
Future Volume (Veh/h)	33	24	29	12	18	8	20	50	13	10	46	13
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.63	0.63	0.63	0.52	0.52	0.52	0.70	0.70	0.70	0.74	0.74	0.74
Hourly flow rate (vph)	52	38	46	23	35	15	29	71	19	14	62	18
Pedestrians		107			9			62			23	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		10			1			6			2	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	400	363	240	374	362	112	187			99		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	400	363	240	374	362	112	187			99		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	87	92	93	95	93	98	98			99		
cM capacity (veh/h)	410	486	675	427	487	912	1246			1481		

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total	136	73	119	94
Volume Left	52	23	29	14
Volume Right	46	15	19	18
cSH	498	513	1246	1481
Volume to Capacity	0.27	0.14	0.02	0.01
Queue Length 95th (ft)	28	12	2	1
Control Delay (s)	14.9	13.2	2.1	1.2
Lane LOS	B	B	A	A
Approach Delay (s)	14.9	13.2	2.1	1.2
Approach LOS	B	B		

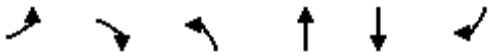
Intersection Summary				
Average Delay	7.9			
Intersection Capacity Utilization	32.5%	ICU Level of Service	A	
Analysis Period (min)	15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	4	5	9	1	50	9	378	34	57	366	4
Future Volume (Veh/h)	0	4	5	9	1	50	9	378	34	57	366	4
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.50	0.50	0.50	0.69	0.69	0.69	0.79	0.79	0.79	0.85	0.85	0.85
Hourly flow rate (vph)	0	8	10	13	1	72	11	478	43	67	431	5
Pedestrians		5			30			1			2	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		0			3			0			0	
Right turn flare (veh)												
Median type								None			TWLTL	
Median storage veh)											2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1147	1146	440	1132	1126	532	441			551		
vC1, stage 1 conf vol	572	572		552	552							
vC2, stage 2 conf vol	574	573		580	575							
vCu, unblocked vol	1147	1146	440	1132	1126	532	441			551		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	98	98	96	100	86	99			93		
cM capacity (veh/h)	307	344	614	353	368	531	1114			990		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	18	86	11	521	67	436
Volume Left	0	13	11	0	67	0
Volume Right	10	72	0	43	0	5
cSH	455	491	1114	1700	990	1700
Volume to Capacity	0.04	0.18	0.01	0.31	0.07	0.26
Queue Length 95th (ft)	3	16	1	0	5	0
Control Delay (s)	13.2	13.9	8.3	0.0	8.9	0.0
Lane LOS	B	B	A		A	
Approach Delay (s)	13.2	13.9	0.2		1.2	
Approach LOS	B	B				

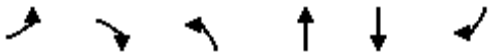
Intersection Summary				
Average Delay	1.9			
Intersection Capacity Utilization	46.2%	ICU Level of Service		A
Analysis Period (min)	15			



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	0	0	21	87	70	30
Future Volume (Veh/h)	0	0	21	87	70	30
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	23	95	76	33
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	234	92	109			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	234	92	109			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	98			
cM capacity (veh/h)	743	965	1481			

Direction, Lane #	NB 1	SB 1
Volume Total	118	109
Volume Left	23	0
Volume Right	0	33
cSH	1481	1700
Volume to Capacity	0.02	0.06
Queue Length 95th (ft)	1	0
Control Delay (s)	1.6	0.0
Lane LOS	A	
Approach Delay (s)	1.6	0.0
Approach LOS		

Intersection Summary			
Average Delay	0.8		
Intersection Capacity Utilization	15.7%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	29	23	0	79	70	0
Future Volume (Veh/h)	29	23	0	79	70	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	32	25	0	86	76	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	162	76	76			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	162	76	76			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	96	97	100			
cM capacity (veh/h)	829	985	1523			

Direction, Lane #	EB 1	NB 1	SB 1
Volume Total	57	86	76
Volume Left	32	0	0
Volume Right	25	0	0
cSH	891	1700	1700
Volume to Capacity	0.06	0.05	0.04
Queue Length 95th (ft)	5	0	0
Control Delay (s)	9.3	0.0	0.0
Lane LOS	A		
Approach Delay (s)	9.3	0.0	0.0
Approach LOS	A		

Intersection Summary			
Average Delay	2.4		
Intersection Capacity Utilization	14.2%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	10	5	81	16	16	35
Future Volume (Veh/h)	10	5	81	16	16	35
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	11	5	88	17	17	38
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	168	96			105	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	168	96			105	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	99	99			99	
cM capacity (veh/h)	812	960			1486	

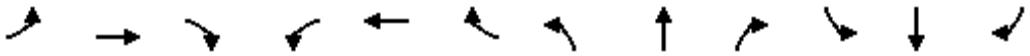
Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	16	105	55
Volume Left	11	0	17
Volume Right	5	17	0
cSH	853	1700	1486
Volume to Capacity	0.02	0.06	0.01
Queue Length 95th (ft)	1	0	1
Control Delay (s)	9.3	0.0	2.4
Lane LOS	A		A
Approach Delay (s)	9.3	0.0	2.4
Approach LOS	A		

Intersection Summary			
Average Delay	1.6		
Intersection Capacity Utilization	19.4%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	22	79	406	40	87	464
Future Volume (Veh/h)	22	79	406	40	87	464
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.82	0.82	0.94	0.94	0.96	0.96
Hourly flow rate (vph)	27	96	432	43	91	483
Pedestrians	39					
Lane Width (ft)	12.0					
Walking Speed (ft/s)	3.5					
Percent Blockage	4					
Right turn flare (veh)						
Median type			TWLTL			None
Median storage veh)			2			
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	1158	492			514	
vC1, stage 1 conf vol	492					
vC2, stage 2 conf vol	665					
vCu, unblocked vol	1158	492			514	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)	5.4					
tF (s)	3.5	3.3			2.2	
p0 queue free %	93	83			91	
cM capacity (veh/h)	396	555			1012	

Direction, Lane #	WB 1	NB 1	SB 1	SB 2
Volume Total	123	475	91	483
Volume Left	27	0	91	0
Volume Right	96	43	0	0
cSH	510	1700	1012	1700
Volume to Capacity	0.24	0.28	0.09	0.28
Queue Length 95th (ft)	23	0	7	0
Control Delay (s)	14.3	0.0	8.9	0.0
Lane LOS	B		A	
Approach Delay (s)	14.3	0.0	1.4	
Approach LOS	B			

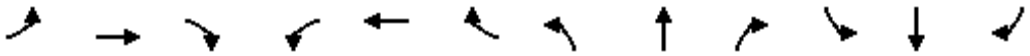
Intersection Summary			
Average Delay	2.2		
Intersection Capacity Utilization	45.0%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Sign Control		Stop			Stop			Stop			Stop	
Traffic Volume (vph)	22	23	22	3	17	8	24	68	6	10	63	33
Future Volume (vph)	22	23	22	3	17	8	24	68	6	10	63	33
Peak Hour Factor	0.74	0.74	0.74	0.58	0.58	0.58	0.79	0.79	0.79	0.77	0.77	0.77
Hourly flow rate (vph)	30	31	30	5	29	14	30	86	8	13	82	43

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total (vph)	91	48	124	138
Volume Left (vph)	30	5	30	13
Volume Right (vph)	30	14	8	43
Hadj (s)	-0.10	-0.12	0.04	-0.13
Departure Headway (s)	4.5	4.5	4.4	4.2
Degree Utilization, x	0.11	0.06	0.15	0.16
Capacity (veh/h)	752	743	779	809
Control Delay (s)	8.0	7.8	8.2	8.0
Approach Delay (s)	8.0	7.8	8.2	8.0
Approach LOS	A	A	A	A

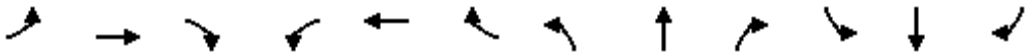
Intersection Summary				
Delay	8.1			
Level of Service	A			
Intersection Capacity Utilization	28.3%	ICU Level of Service	A	
Analysis Period (min)	15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	24	14	7	15	3	7	68	10	5	91	8
Future Volume (Veh/h)	21	24	14	7	15	3	7	68	10	5	91	8
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.84	0.84	0.84	0.75	0.75	0.75	0.61	0.61	0.61	0.91	0.91	0.91
Hourly flow rate (vph)	25	29	17	9	20	4	11	111	16	5	100	9
Pedestrians		16			6			6			1	
Lane Width (ft)		12.0			12.0			12.0			12.0	
Walking Speed (ft/s)		3.5			3.5			3.5			3.5	
Percent Blockage		2			1			1			0	
Right turn flare (veh)												
Median type								None			None	
Median storage veh)												
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	286	286	126	299	282	126	125			133		
vC1, stage 1 conf vol												
vC2, stage 2 conf vol												
vCu, unblocked vol	286	286	126	299	282	126	125			133		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)												
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	96	95	98	98	97	100	99			100		
cM capacity (veh/h)	620	604	905	596	607	918	1439			1444		

Direction, Lane #	EB 1	WB 1	NB 1	SB 1
Volume Total	71	33	138	114
Volume Left	25	9	11	5
Volume Right	17	4	16	9
cSH	663	630	1439	1444
Volume to Capacity	0.11	0.05	0.01	0.00
Queue Length 95th (ft)	9	4	1	0
Control Delay (s)	11.1	11.0	0.7	0.4
Lane LOS	B	B	A	A
Approach Delay (s)	11.1	11.0	0.7	0.4
Approach LOS	B	B		

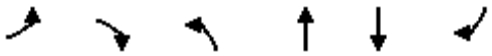
Intersection Summary				
Average Delay	3.6			
Intersection Capacity Utilization	22.5%	ICU Level of Service	A	
Analysis Period (min)	15			



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	3	8	12	0	22	14	445	23	49	540	8
Future Volume (Veh/h)	1	3	8	12	0	22	14	445	23	49	540	8
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.83	0.83	0.83	0.77	0.77	0.77	0.94	0.94	0.94	0.93	0.93	0.93
Hourly flow rate (vph)	1	4	10	16	0	29	15	473	24	53	581	9
Pedestrians		4			21						2	
Lane Width (ft)		12.0			12.0						12.0	
Walking Speed (ft/s)		3.5			3.5						3.5	
Percent Blockage		0			2						0	
Right turn flare (veh)												
Median type								None			TWLTL	
Median storage veh)											2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	1230	1244	590	1235	1236	508	594			518		
vC1, stage 1 conf vol	696	696		536	536							
vC2, stage 2 conf vol	534	548		699	700							
vCu, unblocked vol	1230	1244	590	1235	1236	508	594			518		
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	6.1	5.5		6.1	5.5							
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	100	99	98	95	100	95	98			95		
cM capacity (veh/h)	320	333	506	323	340	553	978			1027		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	SB 1	SB 2
Volume Total	15	45	15	497	53	590
Volume Left	1	16	15	0	53	0
Volume Right	10	29	0	24	0	9
cSH	430	441	978	1700	1027	1700
Volume to Capacity	0.03	0.10	0.02	0.29	0.05	0.35
Queue Length 95th (ft)	3	8	1	0	4	0
Control Delay (s)	13.7	14.1	8.7	0.0	8.7	0.0
Lane LOS	B	B	A		A	
Approach Delay (s)	13.7	14.1	0.3		0.7	
Approach LOS	B	B				

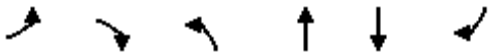
Intersection Summary				
Average Delay	1.2			
Intersection Capacity Utilization	48.3%	ICU Level of Service		A
Analysis Period (min)	15			



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	0	0	6	67	64	10
Future Volume (Veh/h)	0	0	6	67	64	10
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	0	0	7	73	70	11
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	162	76	81			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	162	76	81			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	100	100	100			
cM capacity (veh/h)	824	986	1517			

Direction, Lane #	NB 1	SB 1
Volume Total	80	81
Volume Left	7	0
Volume Right	0	11
cSH	1517	1700
Volume to Capacity	0.00	0.05
Queue Length 95th (ft)	0	0
Control Delay (s)	0.7	0.0
Lane LOS	A	
Approach Delay (s)	0.7	0.0
Approach LOS		

Intersection Summary			
Average Delay	0.3		
Intersection Capacity Utilization	11.8%	ICU Level of Service	A
Analysis Period (min)	15		



Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (veh/h)	11	9	0	62	64	0
Future Volume (Veh/h)	11	9	0	62	64	0
Sign Control	Stop			Free	Free	
Grade	0%			0%	0%	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	12	10	0	67	70	0
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type				None	None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	137	70	70			
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	137	70	70			
tC, single (s)	6.4	6.2	4.1			
tC, 2 stage (s)						
tF (s)	3.5	3.3	2.2			
p0 queue free %	99	99	100			
cM capacity (veh/h)	856	993	1531			

Direction, Lane #	EB 1	NB 1	SB 1
Volume Total	22	67	70
Volume Left	12	0	0
Volume Right	10	0	0
cSH	913	1700	1700
Volume to Capacity	0.02	0.04	0.04
Queue Length 95th (ft)	2	0	0
Control Delay (s)	9.0	0.0	0.0
Lane LOS	A		
Approach Delay (s)	9.0	0.0	0.0
Approach LOS	A		

Intersection Summary			
Average Delay	1.3		
Intersection Capacity Utilization	13.4%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (veh/h)	4	2	57	4	4	22
Future Volume (Veh/h)	4	2	57	4	4	22
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (vph)	4	2	62	4	4	24
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	96	64			66	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	96	64			66	
tC, single (s)	6.4	6.2			4.1	
tC, 2 stage (s)						
tF (s)	3.5	3.3			2.2	
p0 queue free %	100	100			100	
cM capacity (veh/h)	901	1000			1536	

Direction, Lane #	WB 1	NB 1	SB 1
Volume Total	6	66	28
Volume Left	4	0	4
Volume Right	2	4	0
cSH	932	1700	1536
Volume to Capacity	0.01	0.04	0.00
Queue Length 95th (ft)	0	0	0
Control Delay (s)	8.9	0.0	1.1
Lane LOS	A		A
Approach Delay (s)	8.9	0.0	1.1
Approach LOS	A		

Intersection Summary			
Average Delay	0.8		
Intersection Capacity Utilization	14.6%	ICU Level of Service	A
Analysis Period (min)	15		

Appendix E – Livable Neighborhood Streets and Taft Community School Walk/Bike Audit and Field Review Excerpts.

MEMORANDUM

100 Webster Street, Suite 300
Oakland, CA 94607
(510) 540-5008
www.altaplanning.com

To: Matthew Reeves, Safe Routes to School Coordinator and General Program Associate, Redwood City 2020

From: Dara O'Byrne, Planning Associate
Benjamin Frazier, Planner

Date: July 12, 2017

Re: Taft Community School Walk/Bike Audit and Field Review

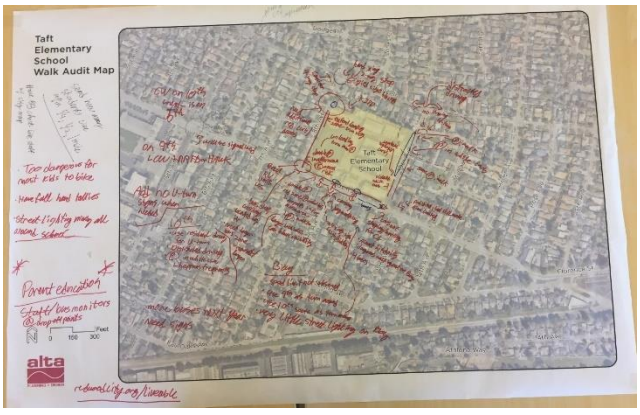
Overview of Process

On May 23, 2017, a walk/bike audit and field review was performed during the morning drop-off time to assess the walking and biking safety conditions, needs, and opportunities at Taft Community School. Participants observed behaviors during drop-off, interactions between pedestrians, bicyclists, and motor vehicles, and infrastructure needs. At the end of the field review, 17 participants gathered in the Police Activities League Building community room to discuss the observations during the morning arrival period and parents shared their regular observations and concerns. All of these items were recorded on a large plotted map (see below).

Participants included:

- 10 parents of Taft students
- Taft Community School Crossing Guard
- Theresa Vallez-Kelly, San Mateo County Office of Education Safe Routes to School Coordinator
- Elsa Aispuro, Taft Community School Coordinator
- Officer Ken Faljean, Redwood City Police Department
- Kimberly Overton, City of Redwood City Engineer
- Matthew Reeves, Redwood City 2020 Safe Routes to School Coordinator and General Program Associate
- Dara O'Byrne, Alta Planning + Design Planning Associate
- Ben Frazier, Alta Planning + Design Planner

After the audit and field review, Alta compiled all of the concerns and observations and developed recommended improvements to address concerns and issues. These recommendations are discussed in the following section.



Taft Community School Background and Existing Conditions

Background information

Taft Elementary School is located on 10th Avenue between Page Street and Bay Road. Taft was originally built in 1947 and was modernized in 1993; the elementary school will undergo a major renovation in 2018. The current student population is about 520 students between Kindergarten and 5th grade. After the renovation, the school will also serve 6th, 7th, and 8th graders.

Existing Conditions

The following existing conditions were observed or reported by participants during the walk audit:

Bay Road/Eleventh Avenue & Bay Road/Twelfth Avenue

- Many families were observed walking along the south side of Bay Road
- To reach the school, most families crossed Bay Road at Tenth Avenue
- Both Eleventh Avenue and Twelfth Avenue intersections with Bay Road have wide curb radii and unmarked crosswalks

Bay Road/Tenth Avenue (northern leg)

- Tenth Avenue is disjointed at Bay Road
- There is a crossing guard stationed at this intersection
- This is the most popular crossing to cross Bay Road. It is currently striped with a yellow ladder crosswalk
- The crossing guard, who has been stationed at this intersection for an extended period of time, reports feeling unsafe attempting to stop vehicles speeding along Bay Road
- Sometimes cars do not stop when the crossing guard attempts to stop traffic to allow pedestrians to cross
- While the school crossing signs do have actuated flashing lights, they are not effective at slowing or stopping vehicles as they approach
- Cars travel along Bay Road above both the posted speed limit (30 MPH) and the school zone (25 MPH) limit
- Approaching Bay Road, left turns onto Bay are prohibited during certain hours. Walk audit participants reported some cars still make left turns, despite both near-side and far-side signage
- The Tenth Avenue crossing is currently striped as a yellow transverse crosswalk
- Both sides of the Tenth Avenue approach to Bay Road have sufficient red curb striped, but enforcement was reported as an issue by walk audit participants

Bay Road/Tenth Avenue (southern leg)

- Similar to Bay Road and Eleventh Avenue and Twelfth Avenue the Bay and Tenth (south) intersection crosswalk is not marked
- This intersection has wide curb radii
- Walk audit participants reported that sometimes pedestrians will cross here, instead of at the northern segment of Tenth Ave

Bay Road/9th Avenue

- The crossing across Ninth Avenue is not striped
- This intersection has wide curb radii
- Walk audit participants reported that sometimes pedestrians will cross here, and not at the northern segment of Tenth Ave
- On the north side of Bay Road there is a fire access driveway and gate. Walk audit participants reported that during drop-off and pick-up times, cars will stop and sometimes park there for loading and unloading

Bay Road/ Eighth Avenue

- Bay Road/Eighth Avenue is the second primary crossing for students and families traveling along Bay Road to access Taft
- The intersection is uncontrolled and has no striped crossings
- Similar to other Bay Road intersections, the curb radii here are very wide
- On both sides of Bay Road, east of Eighth Avenue, there are SamTrans bus stops. Walk audit participants reported that these stops were used by both Taft students and students of nearby schools.
    - Neither bus zone has sufficient red curb

Bay Road/Seventh Avenue & Bay Road/Sixth Avenue

- Many families were observed walking along both sides of Bay Road
- Both Seventh Avenue and Sixth Avenue intersections with Bay Road have wide curb radii on both sides of Bay Road
- Both Seventh Avenue and Sixth Avenue intersections with Bay Road have unmarked crosswalks

Tenth Avenue (between Page Street and Bay Road)

- Tenth Avenue is a popular drop-off area for students being driven to school
- Some of the curb along the school frontage is painted white for loading/unloading. Walk audit participants reported that cars will sometimes park in this area
- The sidewalk along Tenth Avenue is narrow, but has room to be widened to provide pedestrians (some with strollers) additional walking space

Tenth Avenue/Michael Drive

- The crossing across Michael Drive in not striped
- Walk audit participants reported that multiple cars a day will use this intersection (and other points along Michael Drive) to make U-turns

Eighth Avenue (between Page Street and Bay Road)

- Eighth Avenue is another popular location for students being dropped-off by car
- There is school access at the northern end of the baseball fields
- Pick-up and drop-off in the area can get very crowded as this is also the primary pick-up/drop-off loading area for KIPP Excelencia school located on the same campus
- There is currently very limited painted white curb space along Eighth Avenue

Page Street/Tenth Avenue

- This intersection is all-way stop controlled
- All four crossings are currently striped as yellow transverse crosswalks with advance stop markings

Page Street/Eighth Avenue

- This intersection is currently two-way stop controlled; traffic traveling on Eighth Avenue has to stop
- All four crossings are striped: the two Eighth Avenue crossings are transverse crosswalks and the two Page Street crossings are ladder crosswalks
- The two approaches from Eighth Avenue have advance stop markings; the two Page Street approaches do not have advance yield markings

Page Street/Seventh Avenue & Page Street/Sixth Avenue

- Both Seventh Avenue and Sixth Avenue intersections with Page Street have really wide curb radii on both sides of Bay Road
- Both Seventh Avenue and Sixth Avenue intersections with Page Street have unmarked crosswalks

Summary of Recommended Improvements

Recommendations to improve infrastructure and operations within the Taft Community School campus and within the surrounding neighborhoods can be seen on the conceptual improvement plan attached to this memorandum. Engineering cost estimates for the infrastructure improvements have also been provided.

Below are recommended policy and program improvements for increasing safety, health, and active commutes for the students, staff, and community of Taft Elementary School.

Program and Policy Recommendations

- Send regular reminders to parents regarding their drop-off and pick-up location options and encourage parents to leave a few minutes earlier to prevent rushing. Encourage families to cross Bay Road at controlled intersections or Tenth Avenue with the crossing guard.
- Distribute Recommended Walk/Bike Maps to students and their families in an effort to promote walking and biking to school on suggested routes. Safety tips should also be included on these maps to promote good behavior among bicyclists, pedestrians, and drivers.
- Emphasize and grow support for volunteer led walking school buses and bike trains.
- Join the countywide SR2S program and participate in events such as Bike Rodeos, Pedestrian Safety Rodeos, and International Walk and Roll to School Day.
- Work with parents to connect them with others who live nearby to increase the number of students carpooling, which may reduce the number of vehicles coming to campus.
- Consider creating a program with SamTrans to allow fare waivers for students on the school's priority routes.

Livable Neighborhood Streets Recommendations

The Livable Neighborhood Streets project is a street enhancement project within Redwood City that is working on developing friendly, community oriented streets that are accessible for people riding bicycles, walking, and driving cars. The project has had several public workshops across the city and has proposed improvements along corridors in many neighborhoods. Several recommendations are within the vicinity of Taft Community School. The following are recommendations for alterations or additions to these plans:

- In general, prioritize projects that are within five hundred feet of the school and work to improve safety and comfort of non-motorized travel.
- At the intersection of Bay Road and Tenth Avenue, install a refreshed high visibility crosswalk, curb extensions, advance yield markings (shark's teeth), and additional red curb around the crosswalks/curb extensions in addition to the recommended Rectangular Rapid Flashing Beacon (RRFB).
- At the intersection of Bay Road and Eighth Avenue, incorporate advance stop markings on the Eighth Avenue approaches and advance yield markings on the Bay Road approaches, curb extensions at all four corners, and additional red curb at the corners for both pedestrian visibility and for the SamTrans bus zone in addition to the RRFB and high visibility crosswalks recommended.
- At the intersection of Page Street and Eighth Avenue, in addition to installing high visibility crosswalks and curb extensions, nearby vegetation should be trimmed to increase pedestrian and sign visibility, additional

red curb should be installed, the intersection should be studied to see if it can be converted to all-way stop control, and the appropriate advance stop or yield markings should be installed.

- The Livable Neighborhood Streets plan calls for Class II bike facilities along Florence Street/Bay Road from 17th Avenue to Fifth Avenue. It is recommended that this lane be extended to Second Avenue.

For more information on the Livable Neighborhood Streets, visit:

http://www.redwoodcity.org/departments/community-development-department/engineering-transportation/livable-neighborhood-streets

Redwood City School District Facilities Master Plan Recommendations

A facilities master plan was created for the Taft Community School Campus as part of "Long Range Planning for the Future of Our Schools" Project and as a measure to transform the campus. The master plan addresses the program and infrastructure needs of the site. High-level recommendations for the parking lots, drop off locations, school sidewalks, and other transportation infrastructure on the school campus have been developed as part of the facilities plan.

The facilities master plan can be found at: http://www.rcsdk8.net/Page/6104

The following are recommendations for the master plan to help improve safety for pedestrians and bicyclists:

- The primary drop-off areas for Taft Community School should continue to be the curbs along both Tenth and Eighth Avenues; however with the redesign of the parking lot along Tenth Avenue, consider allowing additional drop off along the inner curb near the "Entry Plaza." Should the parking lot be opened up to parents for drop-off and pick-up, additional markings and signage should be installed to help control the traffic and improve safety.

Redwood City
Livable Neighborhood Streets Project (LNS)
- All recommendations that are a part of this Safe Routes to School plan either align with or expand upon the recommendations for the neighborhood that are part of the Livable Neighborhood Streets Project.
- In general, consider placing a higher prioritization for all improvements near the Taft Community School Campus

Recommended High-Visibility Crosswalk
Recommended Transverse Crosswalk
Recommended Curb Extension / Sidewalk
Recommended Curb Ramp
Recommended Signal Warrant Study
Recommended Stop Control Warrant Study
Recommended Vegetation Trimming
Recommended Rectangular Rapid Flashing Beacon
Recommended Class II Bike Lanes
Recommended Bicycle Boulevard
Recommended R32D Sign
Recommended R26S Sign
Recommended Use Crosswalk Sign
Recommended R3-2 Blank Out Sign
Recommended Bus Loading Zone Sign
Recommended R25D Sign
Recommended Advance "STOP" Pavement Markings
Recommended Advance Yield Line
Existing Crossing Guard Location
Livable Streets Linear Recommendation*
Livable Streets Point Recommendation*

*See Redwood City Livable Neighborhood Streets project for specifics on Livable Streets Recommendations. For additional comments on Livable Streets Recommendations in relation to Taft Community School but beyond the extents of this map, see the Taft Community School Technical Memo.

Taft Community School
Redwood City
Safe Routes to Schools Improvement Plan
DRAFT - July 2017

Site Assessment held May 2017

1 Page Street / Eighth Avenue
- Conduct traffic study for an all-way stop control
- Install red curb around each corner of the intersection
- Convert the northern and southern crosswalks to high visibility crosswalks (consistent with LNS)
- Trim vegetation around the signage to ensure visibility
- Install advance "STOP" markings and stop bars on each leg of the intersection, or advance yield lines on Page Street if it remains 2-way stop control
- Install curb extensions on all corners of the intersection (consistent with LNS)

2 Page Street / Tenth Avenue
- Install high visibility crosswalks across each approach
- Install curb entensions on all corners of the intersection

3 Tenth Avenue / Michael Drive
- Install high visibility crosswalk across Michael Drive
- Install curb extensions on both corners of Michael Drive

4 Taft Community School Campus
- Utilize the planting strip to expand the sidewalk on the east side of the school campus
- Paint the curb green and install R32D "30 MINUTE PARKING" signs as shown on the east side of the school campus
- Refresh the red and white painted curbs on the east side of the school campus and install R26S "NO STOPPING ANYTIME" signage and R25D "SCHOOL LOADING" signage as shown on the east side of the school
- Paint curb white as shown on the west side of the school campus

5 Bay Road / Eighth Avenue
- Install curb extensions on all corners of the intersection
- Install advance "STOP" markings and stop bars on the approaches of Eighth Avenue and advance yield lines on the approaches of Bay Road
- Install red curb around each corner of the intersection
- Install high visibility crosswalks on the north, east, and west approaches of the intersection (consistent with LNS)
- Install RRFB on the recommended Bay Road crossing (consistent with LNS)
- Extend red curb on the northeat corner of the intersection, along Bay Road to allow for more buses
-Install "BUS LOADING" signs at the two bus stops on Bay Road

6 Bay Road / Ninth Avenue
- Install transverse crosswalk across Ninth Avenue
- Install curb extensions or reduce curb radii on both corners of Ninth Avenue
- Install R93bP "USE CROSSWALK" signs on both corners of Ninth Avenue

7 Bay Road / Tenth Avenue
- Install R93bP "USE CROSSWALK" signs on both southern corners of Tenth Avenue
- Install high visibility crosswalks across north and south approaches
- Install curb extensions at the landings of proposed and existing high visibility crosswalks
- Install RRFB on Bay Road crossing (consistent with LNS)
- Consider installing R3-2 "NO LEFT TURN" blank out sign

8 Bay Road / Fifth Avenue
- Long Term: Conduct traffic analysis for converting to signalized intersection

9 Corridor Recommendations
- Page Street: Consider converting to bicycle boulevard from Second Avenue to Haven Avenue
- Bay Road: Consider installing Class II Bike Lanes from Douglas Avenue to Florence Street (consistent with LNS). This may require reduction in lane widths and/or removal of the turn lane in some areas
- Fifth Avenue: Consider installing Class II Bike Lanes from rail crossing to Rolison Road (consistent with LNS)

10 Other Recommendations
Install Transverse Crosswalks on the:
- southern approach of Sixth Avenue and Page Street
- southern approach of Seventh Avenue and Page Street
- northern approach of Sixth Avenue and Bay Road
- northern approach of Seventh Avenue and Bay Road
- southern approach of Elevent Avenue and Bay Road
- southern approach of Twelfth Avenue and Bay Road

Area Recommendations:
- Study and improve street lighting in the vicinity of the school campus, concentrating on intersections and crossings
- Examine all signs in the area around the school to ensure signs meet the required visibility standards and comply with the California MUTCD

Improvements not to scale
0 300 ft
N

alta PLANNING + DESIGN

The above items are recommendations only and based on Safe Routes to Schools site assessment best practices. Feasibility determination, final design, accessibility, funding, and implementation of any recommended improvements is the responsibility of the appropriate governing agency.

Redwood City 2020 Safe Routes to Schools
Taft Community School
Preliminary Cost Estimate - SR2S Improvements

Alta Planning + Design *7/12/2017*

Traffic Safety Improvements

ITEM NO.	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	COST
1	Mobilization	1	LS	$53,400	$53,000
2	Traffic Control	1	LS	$53,400	$53,400
3	High Visibility Crosswalk	6	EA	$2,000	$12,000
4	Traverse Crosswalk	7	EA	$500	$3,500
5	Yield Line	5	EA	$500	$2,500
6	R3-2 "NO LEFT TURN" Blank Out Sign Assembly	1	EA	$15,000	$15,000
7	Sign and Post Assembly	13	EA	$500	$6,500
8	STOP Bar and Pavement Marking	6	EA	$400	$2,400
9	Curb Extension & Ramp	13	EA	$5,000	$65,000
10	Painted Curb Marking	1	LS	$9,700	$9,700
11	Trim Vegetation	1	LS	$1,200	$1,200
12	Additional Striping	1	LS	$2,000	$2,000
13	All Way Stop Warrant Study	1	LS	$6,000	$6,000
14	Class II Bike Lanes	6,550	LF	$12	$78,600
15	Class III Bike Boulevard Route Signs, Markings, & Infrastructure Treatments*	1	LS	$300,000	$300,000
16	Area Street Lighting Study	1	LS	$20,000	$20,000
17	Signal Warrant Study	1	LS	$10,000	$10,000
			SubTotal Items		**$640,800**
			CONSTRUCTION CONTINGENCY	20%	$128,200
			Total		**$769,000**

*Price varies greatly depending on level of infrastructure treatments required (drainage, landscaping, curb extensions) and type of traffic calming devices utilized (traffic circles, diverters, chicanes, speed humps, etc)

Appendix M
Rail Safety Study

January 2018 | Rail Safety Study

Taft Community School

for Redwood City School District

Prepared for:

School Site Solutions
Contact: John Dominguez, President
2015 H Street
Sacramento, CA 95811
916.930.0720

Project Number:
SSI-03

Prepared by:

PlaceWorks
Contact: Steve Bush, Senior Engineer
1625 Shattuck Avenue, Suite 300
Berkeley, California 94709
510.848.3815
info@placeworks.com
www.placeworks.com

PLACEWORKS

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1. Introduction

1.1 PURPOSE

This report presents the results of a Rail Safety Study (RSS) prepared for the Redwood City School District (District) which is planning to renovate and reconfigure the existing Taft Community School. The RSS identifies rail lines within a 1,500-foot radius of the proposed school site and evaluates the actual or potential endangerment to school occupants from an incident (derailment or other accident) that could occur along the rail lines.

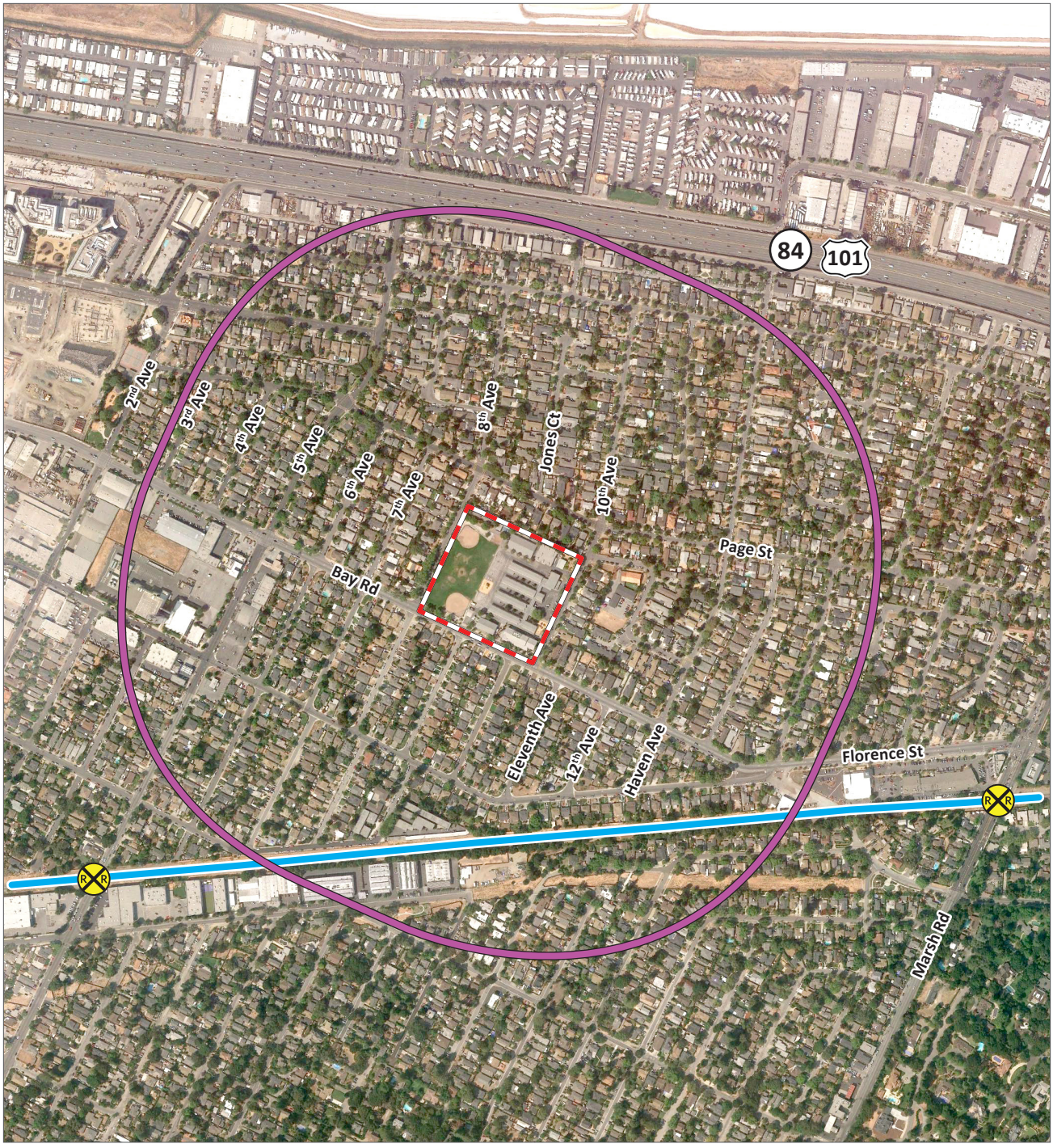
1.2 SCHOOL SITE LOCATION

The District is proposing to renovate and reconfigure the existing Taft Community School, which is located at 903 10th Avenue in the City of Redwood City, San Mateo County, California. The proposed project site is bounded to the north by single family residences, to the east by 10th Avenue, to the south by Bay Road, and to the west by 8th Avenue (Figure 1). The Taft Community School site is surrounded by single family residences.

1.3 REGULATORY REQUIREMENTS

Under Education Code Section 17251, the California Department of Education (CDE) requires preparation of a rail safety study if a school is within 1,500 feet of a railroad easement. CDE standards and regulations for this process are presented in California Code of Regulations, Title 5, Sections 14010, 14011, and 14012. Information on assessing safety hazard related to railroads is discussed in Section 14010 (d):

> *If the proposed site is within 1,500 feet of a railroad track easement, a safety study shall be done by a competent professional trained in assessing cargo manifests, frequency, speed, and schedule of railroad traffic, grade, curves, type and condition of track needed for sound and safety barriers, need for pedestrian and vehicle safeguards at railroad crossings, presence of high pressure gas lines near the tracks that could rupture in the event of a derailment, preparation of an evacuation plan. In addition to the analysis, possible and reasonable mitigation measures must be identified.*



Source: Google Earth Professional, 2018; PlaceWorks, 2018.

0 1,000
Scale (Feet)

Project Site Boundary

1,500-ft Radius of Concern

Union Pacific Double Train Tracks

Train Crossing

Figure 1
Site and Railroad Location Map

1.4 STUDY OBJECTIVES

To meet the requirements of CCR Title 5 Sections 14010(d), and CDE's policy on railroads, the following objectives have been established:

- Identify all active and inactive rail lines located within 1,500 feet of proposed or existing school sites,
- Identify all natural gas and hazardous liquid pipelines crossing or located within railroad track easements that lie within 1,500 feet of proposed or existing school sites,
- Identify track characteristics, including whether it is single or double track, curvature, track gradient, switching equipment, signage, and warning systems,
- Identify locations and characteristics of crossings, including type (vehicular or pedestrian), relationship to rail line (at grade, elevated, or below grade), and accident history,
- Identify rail line operational information, including type of rail traffic (passenger, freight, or both), type of cargo (hazardous and/or non-hazardous), frequency of train traffic, length of trains, speed, and track maintenance schedule (if available),
- Conduct an incident analysis, using accident data provided by federal and state agencies (National Transportation Safety Board, Federal Railroad Administration, California Public Utilities Commission, etc.) to determine the probability of an accident occurring within 1,500 feet of the proposed school site,
- Conduct an additional site-specific analysis of potential risk to occupants of the proposed school site, based on rail line characteristics, train speeds, presence of at-grade vehicle crossings, etc.

1.5 ASSESSMENT METHODOLOGY

The RSS process is composed of three steps. The first step is to collect existing information on the rail line and conduct a qualitative safety assessment, based on rail traffic, type of cargo, train speed, and highway-rail crossings. The second step involves calculating the probability of an accident or derailment on the rail line within a 1,500-foot radius of the school. Finally, the accident/derailment probability is modified to take into account site-specific conditions, including accident data for the railroad owner/operator and the probability that the students would be in school when an accident occurs. The results are used to determine the likelihood that a railroad incident would result in an unacceptable safety hazard to occupants of the school.

2. Railroad Operating Conditions

2.1 RAILROAD LOCATION AND OWNERSHIP

There are two rail lines within 1,500 feet of the school site. Union Pacific (UP) operates infrequent freight trains (about one/day) along the double tracks that are located approximately 900 feet south of the school site. Southern Pacific (SP) previously owned and operated freight traffic along the double tracks. The San Mateo County Transit District purchased the right-of-way in 1994 as an investment for future commuter rail service, and it is now used by Caltrain to store work train equipment. The UP freight trains typically operate along these tracks during late evening or early morning hours. There are no railroad crossings within 1,500 feet of the Taft Community School site. The location of the rail lines and crossings with respect to the school site are shown in Figure 1.

2.2 SITE RECONNAISSANCE

PlaceWorks conducted a site reconnaissance on December 1, 2017 during the hours that school would be in session (11:00 am to 12:30 pm). Photographs documenting the condition of the track and highway-rail crossings are provided in Appendix A. The reconnaissance consisted of evaluating the following:

- Train traffic
- Track condition
- Presence of spurs
- Highway-rail crossings
- Safety devices at each crossing (signage, flashing lights, and gates)
- Potential for trespass by students onto the railroad easement during travel to and from school.

2.2.1 Track Conditions

PlaceWorks conducted a one-day survey on December 1, 2017 to determine the number, type, and speed of the trains that passed by in the vicinity of the proposed school site between 11:00 am and 12:30 pm. There are two tracks (one yard track and one industry lead track) in the right-of-way 900 feet south of the school site. The railroad right-of-way is approximately 100 feet wide at this location. The tracks appeared to be in good condition at the time of the site inspection. The tracks are oriented in a west to east direction and connect to the Caltrain right-of-way about one mile to the west near Woodside Road.

The right-of-way was purchased by the San Mateo Transit Agency (SamTrans) in 1994 but UP still has trackage rights to operate freight traffic along these tracks. The tracks are part of the Roseville Division and are designated as the Redwood Junction Industrial Lead. According to the Federal Railroad Administration

(FRA) database, there could be a maximum of two switching trains per day in the vicinity of the school site. However, based on the heavy commuter traffic on the Caltrain line to the west, UP freight traffic typically occurs in the late evening/early morning hours when students and staff are not present at the school site. The two UP local trains (Mission Local and Broadway Local) that travel along these tracks leave South San Francisco at 5:30 pm and therefore would not be traveling past the school site during school hours. Also, both of these trains typically service industries on the other industrial lead tracks to the north of the school site (i.e., the Redwood Harbor Industrial Lead), which is well beyond the 1,500-foot radius of concern. Once the Caltrain electrification project is complete (estimated to be in 2020), all freight traffic will be limited to the hours from midnight to 5 am and therefore would not have any impact on the school site.

The track is straight throughout the area near the school site, is constructed of continuously welded rail, and is maintained to Class 3 standards with weekly inspections. There is chain link fencing on both sides of the railroad easement in the vicinity of the school site to restrict access and minimize the potential for trespassing. There are no at-grade crossings within 1,500 feet of the school site. However, there is an at-grade crossing at 5th Avenue, which is approximately 2,060 feet southwest of the school site and another at-grade crossing at Marsh Road, which is approximately 2,400 feet southeast of the school site.

During PlaceWorks' site reconnaissance, the Marsh Road crossing was monitored from 11:00 am to 12:30 pm to determine pedestrian usage and to see whether pedestrians were trespassing within the railroad right-of-way. Approximately 5 adults and no children were seen using the crossing. No pedestrians were seen in the railroad right-of-way or trespassing along the tracks. During PlaceWorks' site reconnaissance, there were no freight trains that traveled along the railroad tracks in the vicinity of the school site.

2.2.2 Highway-Rail Crossings

There are no highway-rail crossings within 1,500 feet of the proposed school site. There is an at-grade crossing at 5th Avenue (post mile: 27.252; DOT: 750012N), approximately 2,060 feet southwest of the school site and at Marsh Road (post mile: 28.098, DOT: 750013V), approximately 2,400 feet to the southeast of the project site. The UP tracks are completely fenced along Spring Street to the south of Taft Community School, making trespass unlikely near the school site. Also, the UP tracks have minimal freight traffic in the vicinity of the school site.

2.3 HAZARDOUS MATERIAL TRANSPORT

UP has the authorization to transport all types of cargo, based on Department of Transportation (DOT) and FRA regulations, which includes hazardous materials and chemicals. The freight trains do not run on a consistent schedule but according to the FRA database, there are estimated to be a maximum of two switching trains per day which minimizes the potential for a derailment and subsequent release of hazardous materials. During PlaceWorks' site reconnaissance, no freight trains were observed traveling on the track in the vicinity of the school site during midday school hours (11:00 am to 12:30 pm). Since the freight traffic occurs primarily during late evening and early morning hours when students are not in schools, the probability that a derailment resulting in a hazardous material release could have an adverse impact on students or staff at the school is highly unlikely.

The transport of hazardous materials and chemicals does not constitute a major portion of the total freight traffic in California (AAR, 2015). According to FRA records, no hazardous material releases from trains traveling within San Mateo County have been reported in the last ten years (FRA, 2016). Given the substantial distance between the track and the school site (900 feet), the low incidence of accidents and/or derailments in San Mateo County along this UP line, and the fact that most of the freight trains operate during the evening or late night when students and staff are not at the school, the probability of a hazardous material release resulting in an adverse impact at the school site is minimal.

2.4 HIGH PRESSURE NATURAL GAS AND HAZARDOUS LIQUID PIPELINES

Information obtained from the National Pipeline Mapping System (2017) and Pacific Gas & Electric (PG&E) interactive mapping website (PG&E, 2018) indicates that there are no hazardous liquid or natural gas pipelines located within the UP railroad right-of-way south of the school site. No signage for petroleum or natural gas pipelines was observed during the site reconnaissance, and there is minimal freight traffic along the UP tracks. As a result, there is no possibility of pipeline damage occurring as a result of a derailment in the vicinity of the school site.

2.5 RAILROAD NOISE

Railroad noise levels are dependent on the type of track, number of locomotives, number of cars, speed of trains, and the presence of at-grade crossings that require the engineer to sound warning horns/whistles. Given the construction of the track (welded steel) near the school site and the fact that noise attenuates geometrically with distance, excessive noise levels are not expected at the school boundary.

Noise sources associated with freight trains include:

- Wheel/Rail Rolling Noise. This results from the interaction of steel wheels rolling on steel rails. It increases in direct proportion to train speed and increases at locations with special track work, such as crossovers, turnouts, and sharp curves. The speed of freight trains in the vicinity of the school site was assumed to be 10 mph. The track in the vicinity of the school site is continuously welded steel, which greatly reduces the noise of passing trains.

Because there are no at-grade crossings within 1,500 feet of the school site, the noise from locomotive horns and grade crossing bells was not evaluated. The methodology presented in the Transit Noise and Vibration Impact Assessment (FTA, 2006) was used to calculate potential noise levels at the school site. For this evaluation, it was assumed that freight traffic consisted of one train per day during school hours traveling at 10 mph consisting of two locomotives and 10 freight cars. Typically, the freight trains operate at late night and early morning hours when students and staff are not present at the school site. The CREATE Railroad Noise Model spreadsheet (HMMH, 2006) was used to estimate sound levels for these trains at the school property boundary. A Category 3 Land Use (institutional land use with primarily daytime and evening uses, such as schools, libraries, churches, and theaters) was used for the analysis.

The results are provided in Appendix C and are summarized as follows:

- UP freight train (1 train during school hours) = 24 dB

The Redwood City General Plan, Public Safety Element, states that community noise exposure up to 75 dB is normally acceptable for schools (City of Redwood City, 2010). Additionally, the General Plan quotes a daily noise level of 55 dB in 2008 along Tenth Avenue (City of Redwood City, 2010). The predicted noise levels from the UP freight trains at the school property boundary are well below these levels. Therefore, noise from trains traveling along the railroad tracks are not anticipated to adversely impact students and staff at the school site.

2.6 POTENTIAL FOR TRESPASS OVER THE RAILROAD EASEMENT

A potential safety issue is the trespass of students in the railroad easements during their travel to and from school. Taft Community School's specified attendance area is north of the UP railroad tracks, so students would not need to use any at-grade crossings or short-cut across the tracks during school transit (Redwood City School District, 2017). In addition, there is fencing present along the UP tracks near the school site that would minimize the potential for trespass, and there is currently minimal train traffic on the UP tracks. Based on the site conditions described above, the probability of trespass by students while traveling to or from the school site is very low.

However, accidents involving trespassers on railroad easements account for more than 400 trespasser fatalities and 500 related injuries every year (Metro Magazine, 2015). Accidents involving trespassers on railroad easements accounted for 20% of all accidents and 25% of all fatalities in California in 2012 (CPUC, 2012). Therefore, the potential danger of trespass on the railroad tracks or engaging in unsafe crossing practices at intersections should be addressed as part of the safe route to school program.

3. Incident Analysis and Determination of Risk

The probability that an accident or derailment could occur along the section of track within 1,500 feet of the proposed school site was determined based on railroad accident rates and site-specific conditions.

3.1 RAILROAD ACCIDENT RATES

The FRA website was accessed to determine the railroad accident and derailment rates for UP for the latest five-year period (FRA, 2016). The information is summarized in Table 1.

Table 1 UP National Accident and Derailment Rates

Year	Total Train Miles (millions)	Total Train Accidents	Total Derailments	Derailment Probability	Accident Rate/Train Mile	Derailment Rate/Train Mile
2012	167	506	387	0.765	3.0E-06	2.3E-06
2013	166	501	385	0.768	3.0E-06	2.3E-06
2014	173	504	360	0.714	2.9E-06	2.1E-06
2015	162	521	383	0.735	3.2E-06	2.4E-06
2016	147	471	319	0.667	3.2E-06	2.2E-06
Average	163	501	367	0.733	3.1E-06	2.2E-06

Next, the railroad accident and derailment rates were determined using FRA data for UP tracks in San Mateo County over a 5-year period. The information is summarized in Table 2.

Table 2 UP Accidents and Derailments for San Mateo County

Year	2012	2013	2014	2015	2016	Total
UP – San Mateo County						
Accidents	0	0	1	1	0	**2**
Derailments	0	0	1	1	0	**2**
Total Hazardous Material Releases	0	0	0	0	0	**0**

As can be seen from these data, there are very few accidents that have occurred on UP tracks within San Mateo County in the last five years. There were no releases of hazardous materials during any of the UP freight train accidents during this five-year period.

The UP railroad company had a total of 2 accidents during the 2012-2016 time period. Although the national accident rate for UP trains of 3.1×10^{-6} was used in this analysis, this is a very conservative estimate since there have been very few accidents in San Mateo County in the past 5 years. In addition, the national derailment rate for UP tracks was used in this analysis as a conservative estimate.

The probability of a hazardous material release if an accident were to occur could not be calculated from the data reported above, because there were no hazardous material releases in San Mateo County along UP tracks

over the past five years. Therefore, the following equation was used to determine the probability of a hazardous material release:

$$P_{HAZ} = P_D \times P_T \times P_R$$

Where P_{HAZ} = probability of a derailment resulting in a hazardous material release
P_D = annual derailment rate for San Mateo County = 2.2×10^{-6}
P_T = probability of train carrying hazardous materials (0.24 from AAR analysis)
P_R = probability of hazardous material release = $0.0029x + 0.0243$ (Barkan et al, 2003)
x = speed of train in mph = 10 mph

The calculated probability of a hazardous material release is 2.9×10^{-8}. The actual rate in San Mateo County is expected to be much less than this value due to the limited freight traffic along these lines and the limited transport of hazardous materials in this area.

Based on the information presented above, the accident and derailment rates used for this risk assessment are as follows:

- Accident rate for UP freight trains – 3.1×10^{-6}
- Derailment rate for UP freight trains– 2.2×10^{-6}
- Probability of a hazardous material release – 2.9×10^{-8}

3.2 SITE SPECIFIC INCIDENT ANALYSIS

The likelihood of an accident or derailment occurring within a 1,500-foot radius of the school during school hours was determined using the calculated accident and derailment rates presented in Section 3.1. The site reconnaissance conducted by PlaceWorks and information provided from other sources indicated that no freight trains should be passing by the school site during daytime hours. The length of the UP track within a 1,500-foot radius of the proposed school site was calculated to be 2,415 feet, or 0.46 mile. The probability of an accident or derailment on the tracks occurring within a 1,500-foot radius is calculated as follows:

$$PA = P(A) \times D \times N$$

or

$$PD = P(D) \times D \times N$$

or

$$PH = P(H) \times D \times N$$

Where PA = probability of an accident occurring within a 1,500-foot radius of the school site
PD = probability of a derailment occurring within a 1,500-foot radius of the school site
PH = probability of a hazardous material release occurring within a 1,500-foot radius
P(A) = probability of a rail accident per mile per year = 3.1×10^{-6}
P(D) = probability of a rail derailment per mile per year = 2.2×10^{-6}
P(H) = probability of a hazardous material release = 2.9×10^{-8}

D = distance along rail tracks within 1,500 feet of the school = 2,415 feet = 0.46 mile
N = number of trains per year, during school attendance hours and days
= 1 per day during school hours x 180 days/year = 180 trains/yr

Based on the information presented above, the accident and derailment rates used for this risk assessment are as follows:

- Accident rate for UP freight trains within 1,500 feet of school site – 2.5×10^{-4}
- Derailment rate for UP freight trains within 1,500 feet of school site – 1.9×10^{-4}
- Probability of a UP hazardous material release within 1,500 feet of school site – 2.4×10^{-6}

3.3 ADDITIONAL INCIDENT ANALYSIS

Based on a review of FRA accident reports in San Mateo County for the last five years, there have been no rail accidents on the Redwood Junction Industrial Lead (i.e., the tracks that pass by the school site) during this time period. No hazardous material releases related to rail transport were reported during the last five years in San Mateo County.

One major concern is the possibility of debris from a derailment impacting the students and staff at the school. A study conducted by the Los Angeles Unified School District (LAUSD) indicated that debris from a derailment typically extends no more than 128 feet (about 1.5 rail car lengths) from the centerline of the track. There is no risk of debris from a derailment reaching the school site because the UP track is approximately 900 feet from the school site at its nearest location and there are intervening structures between the track and the school property.

Another concern is the possibility of a derailment resulting in the release of hazardous materials that could impact students and staff at the school. Freight traffic is limited along the UP tracks south of the project site, and no freight trains were observed during the site reconnaissance. Additionally, freight trains typically pass by the site in the late evening and very early morning hours when students and staff would not be present. Therefore, the probability of a train carrying hazardous materials derailing in close proximity to the school site is negligible. There have been no hazardous material releases in San Mateo County for the past five years of record.

In general, the transport of hazardous materials and chemicals does not constitute a major portion of the total freight traffic in California. In 2012, intermodal transport consisted of more than 50% of the total freight traffic originating in California and chemical transport was less than 6% of the total freight traffic (AAR, 2015). Also, the hazardous materials accident-caused release rate has declined by nearly 90% since 1980 (Barkan et al, 2003). Given the distance of the track to the school site and the freight trains infrequently travel past the school site, the probability of a hazardous material release impacting students and staff is negligible.

4. Findings and Conclusions

Findings

- There are two railroad tracks south of the proposed school site. The tracks are approximately 900 feet south from the school's property boundary at the nearest location. The San Mateo County Transit District purchased the railroad right-of-way in 1994 but Union Pacific (UP) has trackage rights to operate freight traffic along these lines.
- The tracks are part of the Roseville Division and are designated as the Redwood Junction Industrial Lead with one yard track and one industrial track.
- Although the FRA records state that there are a maximum of two switching trains/day that use these tracks, freight traffic typically occurs during late evening and early morning hours when students and staff are not present at the school site.
- During PlaceWorks' site reconnaissance on December 1, 2017 between the hours of 11:30 am and 1:00 pm, no freight trains passed through the area.
- The UP track is Class 3 with continuously welded rail and maximum speeds of 10 mph for freight trains.
- There are no at-grade crossings within a 1,500-foot radius of the school site. During PlaceWorks' site reconnaissance, no one was observed trespassing within the railroad easement.

Conclusions

- The probability of trespass onto the UP railroad easements by students traveling to and from the proposed school site is minimal. Because of minimal freight traffic along the tracks near the project site and the fact that the trains typically travel when school is not in session, the train traffic should not be a safety concern to students and staff at the school. Also, the Taft Community School attendance area is north of the UP railroad easement, and the students should not have to cross the tracks to reach the school site. In addition, there are no at-grade crossings within 1,500 feet of the school site.
- The probability of a rail accident or derailment occurring within 1,500 feet of the school site is calculated to be 2.5×10^{-4} and 1.9×10^{-4}, respectively. This is equivalent to an accident or derailment occurring once every 4,000 years or 5,260 years, respectively.
- The noise level from the UP rail system at the school property boundary was estimated to be 24 dB, which is well below the acceptable San Mateo community noise exposure for schools of up to 75 dB.

In summary, there are no unusual circumstances present that would present special risks to students or staff at the proposed school site from operations along the UP railroad tracks.

5. Recommendations

Based on the analysis presented in the previous sections, there are no mitigation measures or special provisions required at this school site. There is minimal freight traffic within 1,500 feet of the school site. However, pedestrian safety and the dangers of trespassing in railroad right-of-ways should still be addressed in the Safe Routes to School program. Operation Lifesaver also has volunteer speakers and trained instructors that provide free rail safety education programs and free educational materials that can be incorporated into lesson plans or as stand-alone components.

6. References

1. Association of American Railroads (AAR), 2015. US Freight Railroad – 2012 Data - California Overview. Accessed at https://www.aar.org/data-center/railroads-states#state/CA on January 3, 2018.
2. Barkan, Christopher P., C. Tyler Dick, and Robert Anderson, 2003. Analysis of Railroad Derailment Factors Affecting Hazardous Materials. Transportation Risk. Transportation Research Record Paper No. 03-4429.
3. California Public Utilities Commission (CPUC), 2013. *Annual Railroad Local Safety Hazard Report for 2012.*
4. California Public Utilities Commission (CPUC), 2012. *CPUC Accident Inventory Database* accessed on August 13, 2015 at http://www.cpuc.ca.gov/PUC/safety/Rail/Railroad/
5. California Public Utilities Commission (CPUC). 1999. Annual Report of Railroad Accidents Occurring in California. Rail Safety and Carriers Division.
6. City of Redwood City, 2010. *Public Safety Element of the City of Redwood City General Plan.* 2010. http://www.redwoodcity.org/departments/community-development-department/planning-housing/planning-services/general-plan-precise-plans/general-plan
7. Federal Transit Administration (FTA). 2006a. Transit Noise and Vibration Impact Assessment. Prepared by Carl E. Hanson, David A. Towers, and Lance D. Meister for the Office of Planning and Environment, FTA. Report No. FTA-VA-90-1003-06. May 2006.
8. Federal Railroad Administration (FRA). 2016. Office of Safety, Operational Data. Website: http://safetydata.fra.dot.gov/officeofsafety/Query.
9. Harris, Miller, Miller & Hanson (HMMH), Inc. 2006. CREATE Railroad Noise Model User Guide.
10. Los Angeles Unified School District (LAUSD). 2005. Train Derailment – Preliminary Evaluation of Railcar and Load Debris Encroachment Distances. Prepared by Wilson Geosciences, Inc., Altadena, CA. February 2005.
11. Metro Magazine, 2015. *FRA announces right-of-way fatality, trespass prevention workshop.* Article in Metro Magazine, March 26, 2015.
12. Metropolitan Transportation Commission (MTC), 2006. Bay Area Regional Rail Plan, Technical Memorandum 4a, Conditions, Configuration & Traffic on Existing System.
13. National Pipeline Mapping System (NPMS), 2017. *NPMS Public Map Viewer.* Accessed on July 26, 2017 at https://pvnpms.phmsa.dot.gov/PublicViewer/.
14. Pacific Gas & Electric (PG&E) Company, 2018. *Gas Transmission Pipeline System Map.* Accessed on January 17, 2018 at https://www.pge.com/en_US/safety/how-the-system-works/natural-gas-system-overview/gas-transmission-pipeline/gas-transmission-pipelines.page.
15. Redwood City School District, 2017. Taft Community School Attendance Area. http://locator.decisioninsite.com/?StudyID=171996. Accessed November 29, 2017.

6. References

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Appendix A. Photographic Essay

PLACEWORKS

PHOTO ESSAY

Client Name: Redwood City School District

Site Location: Taft Community School

Project No.: SSI-03.0

Photo No:	Date:
1	12/1/2017

Description:

View looking to the east of the UP railroad tracks south of the school site. The photo shows the at-grade Marsh Road crossing.

Photo No:	Date:
2	12/1/2017

Description:

View looking to the west of the UP tracks, showing fencing along the tracks to the north and south. A shopping center parking lot is visible on the right side of the photograph, and the back fence of residences is visible on the left.

PLACEWORKS

PHOTO ESSAY

Client Name:	Redwood City School District
Site Location:	Taft Community School
Project No.:	SSI-03.0

Photo No:	**Date:**
3	12/1/2017

Description:

Close-up view of the continuously welded rail tracks, looking to the west.

Appendix B. Highway-Rail Crossing Data

U. S. DOT CROSSING INVENTORY FORM

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

OMB No. 2130-0017

Instructions for the initial reporting of the following types of new or previously unreported crossings: For public highway-rail grade crossings, complete the entire inventory Form. For private highway-rail grade crossings, complete the Header, Parts I and II, and the Submission Information section. For public pathway grade crossings (including pedestrian station grade crossings), complete the Header, Parts I and II, and the Submission Information section. For Private pathway grade crossings, complete the Header, Parts I and II, and the Submission Information section. For grade-separated highway-rail or pathway crossings (including pedestrian station crossings), complete the Header, Part I, and the Submission Information section. For changes to existing data, complete the Header, Part I Items 1-3, and the Submission Information section, in addition to the updated data fields. Note: For private crossings only, Part I Item 20 and Part III Item 2.K. are required unless otherwise noted. An asterisk * denotes an optional field.

A. Revision Date *(MM/DD/YYYY)*	B. Reporting Agency	C. Reason for Update *(Select only one)*	D. DOT Crossing Inventory Number
06 / 15 / 2017	☒ Railroad ☐ Transit ☐ State ☐ Other	☒ Change in Data ☐ New Crossing ☐ Closed ☐ No Train Traffic ☐ Quiet Zone Update ☐ Re-Open ☐ Date Change Only ☐ Change in Primary Operating RR ☐ Admin. Correction	750013V

Part I: Location and Classification Information

1. Primary Operating Railroad	2. State	3. County
Union Pacific Railroad Company [UP]	CALIFORNIA	SAN MATEO

4. City / Municipality	5. Street/Road Name & Block Number	6. Highway Type & No.
☒ In ☐ Near REDWOOD CITY	MARSH ROAD *(Street/Road Name)* | * *(Block Number)*	CITY

7. Do Other Railroads Operate a Separate Track at Crossing? ☐ Yes ☒ No	8. Do Other Railroads Operate Over Your Track at Crossing? ☐ Yes ☒ No
If Yes, Specify RR	If Yes, Specify RR

9. Railroad Division or Region	10. Railroad Subdivision or District	11. Branch or Line Name	12. RR Milepost
☐ None ROSEVILLE	☐ None Redwood Jct Ind Ld	☒ None	| 0028.098 | *(prefix) | (nnnn.nnn) | (suffix)*

13. Line Segment *	14. Nearest RR Timetable Station *	15. Parent RR *(if applicable)*	16. Crossing Owner *(if applicable)*
		☒ N/A	☒ N/A

17. Crossing Type	18. Crossing Purpose	19. Crossing Position	20. Public Access *(if Private Crossing)*	21. Type of Train		22. Average Passenger Train Count Per Day
☒ Public ☐ Private	☒ Highway ☐ Pathway, Ped. ☐ Station, Ped.	☒ At Grade ☐ RR Under ☐ RR Over	☐ Yes ☐ No	☒ Freight ☐ Intercity Passenger ☐ Commuter	☐ Transit ☐ Shared Use Transit ☐ Tourist/Other	☐ Less Than One Per Day ☐ Number Per Day 0

23. Type of Land Use
☐ Open Space ☐ Farm ☒ Residential ☐ Commercial ☐ Industrial ☐ Institutional ☐ Recreational ☐ RR Yard

24. Is there an Adjacent Crossing with a Separate Number?	25. Quiet Zone *(FRA provided)*
☐ Yes ☒ No If Yes, Provide Crossing Number	☒ No ☐ 24 Hr ☐ Partial ☐ Chicago Excused Date Established

26. HSR Corridor ID	27. Latitude in decimal degrees	28. Longitude in decimal degrees	29. Lat/Long Source
☒ N/A	*(WGS84 std: nn.nnnnnnn)* 37.4780193	*(WGS84 std: -nnn.nnnnnnn)* -122.1860278	☒ Actual ☐ Estimated

30.A. Railroad Use *	31.A. State Use * 001DAB-28.10
30.B. Railroad Use *	31.B. State Use *
30.C. Railroad Use *	31.C. State Use *
30.D. Railroad Use *	31.D. State Use *
32.A. Narrative *(Railroad Use)* *	32.B. Narrative *(State Use)* *

33. Emergency Notification Telephone No. *(posted)*	34. Railroad Contact *(Telephone No.)*	35. State Contact *(Telephone No.)*
800-848-8715	402-544-3721	415-703-3722

Part II: Railroad Information

1. Estimated Number of Daily Train Movements

1.A. Total Day Thru Trains *(6 AM to 6 PM)*	1.B. Total Night Thru Trains *(6 PM to 6 AM)*	1.C. Total Switching Trains	1.D. Total Transit Trains	1.E. Check if Less Than One Movement Per Day ☐ How many trains per week?
0	0	2	0	

2. Year of Train Count Data *(YYYY)*	3. Speed of Train at Crossing
2016	3.A. Maximum Timetable Speed *(mph)* 10 3.B. Typical Speed Range Over Crossing *(mph)* From 5 to 10

4. Type and Count of Tracks
Main 0 Siding 0 Yard 1 Transit 0 Industry 1

5. Train Detection *(Main Track only)*
☐ Constant Warning Time ☐ Motion Detection ☐AFO ☐ PTC ☐ DC ☒ Other ☐ None

6. Is Track Signaled?	7.A. Event Recorder	7.B. Remote Health Monitoring
☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☒ No

U. S. DOT CROSSING INVENTORY FORM

A. Revision Date *(MM/DD/YYYY)*	PAGE 2	D. Crossing Inventory Number *(7 char.)*
06/15/2017		750013V

Part III: Highway or Pathway Traffic Control Device Information

1. Are there Signs or Signals? ☒ Yes ☐ No

2. Types of Passive Traffic Control Devices associated with the Crossing

2.A. Crossbuck Assemblies *(count)*	2.B. STOP Signs *(R1-1)* *(count)*	2.C. YIELD Signs *(R1-2)* *(count)*	2.D. Advance Warning Signs *(Check all that apply; include count)* ☐ None
0	0		☒ W10-1 ____ ☐ W10-3 ____ ☐ W10-11 ____ ☐ W10-2 ____ ☐ W10-4 ____ ☐ W10-12 ____

2.E. Low Ground Clearance Sign *(W10-5)*	2.F. Pavement Markings	2.G. Channelization Devices/Medians	2.H. EXEMPT Sign *(R15-3)*	2.I. ENS Sign *(I-13)* Displayed
☐ Yes *(count* 0 *)* ☒ No	☒ Stop Lines ☐ Dynamic Envelope ☒ RR Xing Symbols ☐ None	☐ All Approaches ☐ Median ☒ One Approach ☐ None	☐ Yes ☒ No	☒ Yes ☐ No

2.J. Other MUTCD Signs ☒ Yes ☐ No	2.K. Private Crossing Signs *(if private)*	2.L. LED Enhanced Signs *(List types)*
Specify Type ____ Count 2 Specify Type ____ Count 0 Specify Type ____ Count ____	☐ Yes ☐ No	

3. Types of Train Activated Warning Devices at the Grade Crossing *(specify count of each device for all that apply)*

3.A. Gate Arms *(count)*	3.B. Gate Configuration	3.C. Cantilevered *(or Bridged)* Flashing Light Structures *(count)*	3.D. Mast Mounted Flashing Lights *(count of masts)* 4	3.E. Total Count of Flashing Light Pairs
Roadway 4 Pedestrian ____	☒ 2 Quad ☐ Full *(Barrier)* Resistance ☐ 3 Quad ☐ 4 Quad ☐ Median Gates	Over Traffic Lane 0 ☐ Incandescent Not Over Traffic Lane 0 ☐ LED	☐ Incandescent ☒ LED ☒ Back Lights Included ☐ Side Lights Included	6

3.F. Installation Date of Current Active Warning Devices: *(MM/YYYY)*	3.G. Wayside Horn	3.H. Highway Traffic Signals Controlling Crossing	3.I. Bells *(count)*
____/____ ☒ Not Required	☐ Yes Installed on *(MM/YYYY)* ____/____ ☒ No	☐ Yes ☒ No	2

3.J. Non-Train Active Warning	3.K. Other Flashing Lights or Warning Devices
☐ Flagging/Flagman ☐ Manually Operated Signals ☐ Watchman ☐ Floodlighting ☐ None	Count 0 Specify type ____

4.A. Does nearby Hwy Intersection have Traffic Signals?	4.B. Hwy Traffic Signal Interconnection	4.C. Hwy Traffic Signal Preemption	5. Highway Traffic Pre-Signals	6. Highway Monitoring Devices *(Check all that apply)*
☒ Yes ☐ No	☐ Not Interconnected ☒ For Traffic Signals ☐ For Warning Signs	☒ Simultaneous ☐ Advance	☐ Yes ☒ No Storage Distance * ____ Stop Line Distance * ____	☐ Yes - Photo/Video Recording ☐ Yes – Vehicle Presence Detection ☐ None

Part IV: Physical Characteristics

1. Traffic Lanes Crossing Railroad	2. Is Roadway/Pathway Paved?	3. Does Track Run Down a Street?	4. Is Crossing Illuminated? *(Street lights within approx. 50 feet from nearest rail)*
☐ One-way Traffic ☐ Two-way Traffic ☐ Divided Traffic Number of Lanes 4	☒ Yes ☐ No	☐ Yes ☒ No	☐ Yes ☒ No

5. Crossing Surface *(on Main Track, multiple types allowed)* Installation Date * *(MM/YYYY)* ____/____ Width * ____ Length * 100
☐ 1 Timber ☒ 2 Asphalt ☐ 3 Asphalt and Timber ☐ 4 Concrete ☐ 5 Concrete and Rubber ☐ 6 Rubber ☐ 7 Metal
☐ 8 Unconsolidated ☐ 9 Composite ☐ 10 Other *(specify)* ____

6. Intersecting Roadway within 500 feet?	7. Smallest Crossing Angle	8. Is Commercial Power Available? *
☒ Yes ☐ No If Yes, Approximate Distance *(feet)* 200	☐ 0° – 29° ☐ 30° – 59° ☒ 60° - 90°	☒ Yes ☐ No

Part V: Public Highway Information

1. Highway System	2. Functional Classification of Road at Crossing	3. Is Crossing on State Highway System?	4. Highway Speed Limit
☐ (01) Interstate Highway System ☐ (02) Other Nat Hwy System (NHS) ☐ (03) Federal AID, Not NHS ☒ (08) Non-Federal Aid	☐ (0) Rural ☒ (1) Urban ☐ (1) Interstate ☐ (5) Major Collector ☐ (2) Other Freeways and Expressways ☐ (3) Other Principal Arterial ☐ (6) Minor Collector ☒ (4) Minor Arterial ☐ (7) Local	☐ Yes ☒ No	25 MPH ☒ Posted ☐ Statutory

5. Linear Referencing System *(LRS Route ID)* *

6. LRS Milepost *

7. Annual Average Daily Traffic *(AADT)*	8. Estimated Percent Trucks	9. Regularly Used by School Buses?	10. Emergency Services Route
Year 2010 AADT 35000	05 %	☐ Yes ☒ No Average Number per Day 0	☐ Yes ☐ No

Submission Information - *This information is used for administrative purposes and is not available on the public website.*

Submitted by ____ Organization ____ Phone ____ Date ____

Public reporting burden for this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. According to the Paperwork Reduction Act of 1995, a federal agency may not conduct or sponsor, and a person is not required to, nor shall a person be subject to a penalty for failure to comply with, a collection of information unless it displays a currently valid OMB control number. The valid OMB control number for information collection is 2130-0017. Send comments regarding this burden estimate or any other aspect of this collection, including for reducing this burden to: Information Collection Officer, Federal Railroad Administration, 1200 New Jersey Ave. SE, MS-25 Washington, DC 20590.

Appendix C. CREATE Railroad Noise Model Results

Noise Model Based on Federal Transit Adminstration General Transit Noise Assessment
Developed for Chicago Create Project
Copyright 2006, HMMH Inc.
Case: Taft Community School

RESULTS		
Noise Source	**Leq - 1-hr (dB)**	
All Sources	24	
Source 1	24	
Source 2	15	
Source 3	0	
Source 4	0	
Source 5	0	
Source 6	0	
Source 7	0	
Source 8	0	

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	

Enter data for up to 8 noise sources below - see reference list for source numbers.

NOISE SOURCE PARAMETERS				
Parameter	**Source 1**		**Source 2**	
Source Num.	Freight Locomotive	9	Freight Cars	10
Distance (source to receiver)	distance (ft)	900	distance (ft)	900
Noisiest Hour of	speed (mph)	10	speed (mph)	10
Activity During	trains/hour	0.125	trains/hour	0.125
Sensitive Hours	locos/train	2	length of cars (ft) / train	600
Wheel Flats?		0.00%	% of cars w/ wheel flats	0.00%
Jointed Track?	Y/N	n	Y/N	n
Embedded Track?	Y/N	n	Y/N	n
Aerial Structure?	Y/N	n	Y/N	n
Barrier Present?	Y/N	n	Y/N	n
Intervening Rows of of Buildings	number of rows	10	number of rows	10