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September 15, 2009  
Project No. 105205/PW1

Mr. David Estrada  
San Lorenzo Unified School District  
15510 Usher Street  
San Lorenzo, CA 94580

**Subject: Phase I/Limited Phase II Environmental Site Assessment  
National Guard Armory  
16501 Ashland Avenue  
San Lorenzo, California 94580**

Dear Mr. Estrada:

Enclosed are three copies of the Phase I/Limited Phase II Environmental Site Assessment (ESA) for the above-referenced property. We trust the information presented in this report meets your needs at this time.

An executive summary is provided; however, we recommend that the report be read in its entirety for a comprehensive understanding of the items contained therein.

We appreciate the opportunity to provide these services for San Lorenzo Unified School District. Should you require additional information, have any questions regarding this report, or wish to discuss the recommendations provided, please contact Mr. Jim Lehrman at (925) 484-1700, extension 4520.

Respectfully submitted,

**KLEINFELDER WEST, INC.**

Mehagan Hopkins  
Staff Biologist

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Environmental Group Manager



**PHASE I/LIMITED PHASE II ENVIRONMENTAL  
SITE ASSESSMENT  
NATIONAL GUARD ARMORY  
16501 ASHLAND AVENUE  
SAN LORENZO, CALIFORNIA 94580**

**September 15, 2009**

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A Report Prepared for:

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15510 Usher Street  
San Lorenzo, CA 94580

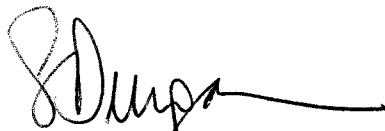
**PHASE I/LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT  
NATIONAL GUARD ARMORY  
16501 ASHLAND AVENUE  
SAN LORENZO, CALIFORNIA 94580**

Kleinfelder Job No: 105205

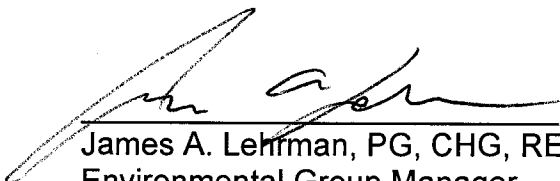
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# Important Information About Your Geoenvironmental Report

Geoenvironmental studies are commissioned to gain information about environmental conditions on and beneath the surface of a site. The more comprehensive the study, the more reliable the assessment is likely to be. But remember: Any such assessment is to a greater or lesser extent based on professional opinions about conditions that cannot be seen or tested. Accordingly, no matter how many data are developed, risks created by unanticipated conditions will always remain. *Have realistic expectations.* Work with your geoenvironmental consultant to manage known and unknown risks. Part of that process should already have been accomplished, through the risk allocation provisions you and your geoenvironmental professional discussed and included in your contract's general terms and conditions. This document is intended to explain some of the concepts that may be included in your agreement, and to pass along information and suggestions to help you manage your risk.

## **Beware of Change; Keep Your Geoenvironmental Professional Advised**

The design of a geoenvironmental study considers a variety of factors that are subject to change. Changes can undermine the applicability of a report's findings, conclusions, and recommendations. *Advise your geoenvironmental professional about any changes you become aware of.* Geoenvironmental professionals cannot accept responsibility or liability for problems that occur because a report fails to consider conditions that did not exist when the study was designed. Ask your geoenvironmental professional about the types of changes you should be particularly alert to. Some of the most common include:

- modification of the proposed development or ownership group,
- sale or other property transfer,
- replacement of or additions to the financing entity,
- amendment of existing regulations or introduction of new ones, or
- changes in the use or condition of adjacent property.

Should you become aware of any change, *do not rely on a geoenvironmental report.* Advise your geoenvironmental professional immediately; follow the professional's advice.

## **Recognize the Impact of Time**

A geoenvironmental professional's findings, recommendations, and conclusions cannot remain valid indefinitely. The more time that passes, the more likely it is that important latent changes will occur. *Do not rely on a geoenvironmental report if too much time has elapsed since it was completed.* Ask your environmental professional to define "too much time." In the case of Phase I Environmental Site Assessments (ESAs), for example, more than 180 days after submission is generally considered "too much."

## **Prepare To Deal with Unanticipated Conditions**

The findings, recommendations, and conclusions of a Phase I ESA report typically are based on a review of historical information, interviews, a site "walkover," and other forms of noninvasive research. When site subsurface conditions are not sampled in any way, the risk of unanticipated conditions is higher than it would otherwise be.

While borings, installation of monitoring wells, and similar invasive test methods can help reduce the risk of unanticipated conditions, *do not overvalue the effectiveness of testing.* Testing provides information about actual conditions only at the precise locations where samples are taken, and only when they are taken. Your geoenvironmental professional has applied that specific information to develop a general opinion about environmental conditions. *Actual conditions in areas not sampled may differ (sometimes sharply) from those predicted in a report.* For example, a site may contain an unregistered underground storage tank that shows no surface trace of its existence. *Even conditions in areas that were tested can change,* sometimes suddenly, due to any number of events, not the least of which include occurrences at

adjacent sites. Recognize, too, that *even some conditions in tested areas may go undiscovered*, because the tests or analytical methods used were designed to detect only those conditions assumed to exist.

Manage your risks by retaining your geoenvironmental professional to work with you as the project proceeds. Establish a contingency fund or other means to enable your geoenvironmental professional to respond rapidly, in order to limit the impact of unforeseen conditions. And to help prevent any misunderstanding, identify those empowered to authorize changes and the administrative procedures that should be followed.

### **Do Not Permit Any Other Party To Rely on the Report**

Geoenvironmental professionals design their studies and prepare their reports to meet the specific needs of the clients who retain them, in light of the risk management methods that the client and geoenvironmental professional agree to, and the statutory, regulatory, or other requirements that apply. The study designed for a developer may differ sharply from one designed for a lender, insurer, public agency...or even another developer. *Unless the report specifically states otherwise, it was developed for you and only you.* Do not unilaterally permit any other party to rely on it. The report and the study underlying it may not be adequate for another party's needs, and you could be held liable for shortcomings your geoenvironmental professional was powerless to prevent or anticipate. Inform your geoenvironmental professional when you know or expect that someone else—a third-party—will want to use or rely on the report. *Do not permit third-party use or reliance until you first confer with the geoenvironmental professional who prepared the report.* Additional testing, analysis, or study may be required and, in any event, appropriate terms and conditions should be agreed to so both you and your geoenvironmental professional are protected from third-party risks. *Any party who relies on a geoenvironmental report without the express written permission of the professional who prepared it and the client for whom it was prepared may be solely liable for any problems that arise.*

### **Avoid Misinterpretation of the Report**

Design professionals and other parties may want to rely on the report in developing plans and specifications. They need to be advised, in writing, that their needs may not have been considered when the study's scope was developed, and, even if their needs were considered, they might misinterpret geoenvironmental findings, conclusions, and recommendations. *Commission your geoenvironmental professional to explain pertinent elements of the report to others who are permitted to rely on it, and to review any plans, specifications or other instruments of professional service that incorporate any of the report's findings, conclusions, or recommendations.* Your geoenvironmental professional has the best understanding of the issues involved, including the fundamental assumptions that underpinned the study's scope.

### **Give Contractors Access to the Report**

Reduce the risk of delays, claims, and disputes by giving contractors access to the full report, *providing that it is accompanied by a letter of transmittal that can protect you* by making it unquestionably clear that: 1) the study was not conducted and the report was not prepared for purposes of bid development, and 2) the findings, conclusions, and recommendations included in the report are based on a variety of opinions, inferences, and assumptions and are subject to interpretation. Use the letter to also advise contractors to consult with your geoenvironmental professional to obtain clarifications, interpretations, and guidance (a fee may be required for this service), and that—in any event—they should conduct additional studies to obtain the specific type and extent of information each prefers for preparing a bid or cost estimate. Providing access to the full report, with the appropriate caveats, helps prevent formation of adversarial attitudes and claims of concealed or differing conditions. If a contractor elects to ignore the warnings and advice in the letter of transmittal, it would do so at its own risk. Your geoenvironmental professional should be able to help you prepare an effective letter.

### **Do Not Separate Documentation from the Report**

Geoenvironmental reports often include supplemental documentation, such as maps and copies of regulatory files, permits, registrations, citations, and correspondence with regulatory agencies. If subsurface explorations were performed, the report may contain final boring logs and copies of laboratory data. If remediation activities occurred on site, the report may include: copies of daily field reports; waste manifests; and information about the disturbance of subsurface materials, the type and thickness of any fill placed on site, and fill placement practices, among other types of documentation. *Do not separate supplemental documentation from the report. Do not, and do not permit any other party to redraw or modify any of the supplemental documentation for incorporation into other professionals' instruments of service.*

### **Understand the Role of Standards**

Unless they are incorporated into statutes or regulations, standard practices and standard guides developed by the American Society for Testing and Materials (ASTM) and other recognized standards-developing organizations (SDOs) are little more than aspirational methods agreed to by a consensus of a committee. The committees that develop standards may not comprise those best-qualified to establish methods and, no matter what, no standard method can possibly consider the infinite client- and project-specific variables that fly in the face of the theoretical "standard conditions" to which standard practices and standard guides apply. In fact, these variables can be so pronounced that geoenvironmental professionals who comply with every directive of an ASTM or other standard procedure could run afoul of local custom and practice, thus violating the standard of care.



Accordingly, when geoenvironmental professionals indicate in their reports that they have performed a service "in general compliance" with one standard or another, it means they have applied professional judgement in creating and implementing a scope of service designed for the specific client and project involved, and which follows some of the general precepts laid out in the referenced standard. To the extent that a report indicates "general compliance" with a standard, you may wish to speak with your geoenvironmental professional to learn more about what was and was not done. *Do not assume a given standard was followed to the letter.* Research indicates that that seldom is the case.

### **Realize that Recommendations May Not Be Final**

The technical recommendations included in a geoenvironmental report are based on assumptions about actual conditions, and so are preliminary or tentative. Final recommendations can be prepared only by observing actual conditions as they are exposed. For that reason, you should retain the geoenvironmental professional of record to observe construction and/or remediation activities on site, to permit rapid response to unanticipated conditions. *The geoenvironmental professional who prepared the report cannot assume responsibility or liability for the report's recommendations if that professional is not retained to observe relevant site operations.*

### **Understand That Geotechnical Issues Have Not Been Addressed**

Unless geotechnical engineering was specifically included in the scope of professional service, a report is not likely to relate any findings, conclusions, or recommendations about the suitability of subsurface materials for construction purposes, especially when site remediation has been accomplished through the removal, replacement, encapsulation, or chemical treatment of on-site soils. The

equipment, techniques, and testing used by geotechnical engineers differ markedly from those used by geoenvironmental professionals; their education, training, and experience are also significantly different. If you plan to build on the subject site, but have not yet had a geotechnical engineering study conducted, your geoenvironmental professional should be able to provide guidance about the next steps you should take. The same firm may provide the services you need.

### **Read Responsibility Provisions Closely**

Geoenvironmental studies cannot be exact; they are based on professional judgement and opinion. Nonetheless, some clients, contractors, and others assume geoenvironmental reports are or certainly should be unerringly precise. Such assumptions have created unrealistic expectations that have led to wholly unwarranted claims and disputes. To help prevent such problems, geoenvironmental professionals have developed a number of report provisions and contract terms that explain who is responsible for what, and how risks are to be allocated. Some people mistake these for "exculpatory clauses," that is, provisions whose purpose is to transfer one party's rightful responsibilities and liabilities to someone else. Read the responsibility provisions included in a report and in the contract you and your geoenvironmental professional agreed to. *Responsibility provisions are not "boilerplate."* They are important.

### **Rely on Your Geoenvironmental Professional for Additional Assistance**

Membership in ASFE exposes geoenvironmental professionals to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a geoenvironmental project. Confer with your ASFE-member geoenvironmental professional for more information.



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## 1 SUMMARY

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A Phase I/Limited Phase II Environmental Site Assessment (ESA) was performed for San Lorenzo Unified School District (Client) for the property located at 16501 Ashland Avenue in San Lorenzo, Alameda, California (see Plate 1, Site Location Map.). This report was prepared using the American Society for Testing and Materials (ASTM), *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* E1527-05.

Kleinfelder understands that San Lorenzo Unified School District is in the process of acquiring the subject property located at 16501 Ashland Avenue in San Lorenzo, California. The subject site is approximately 2 acres in area, and is currently used as a National Guard Armory and maintenance yard. The site is bounded to the north by highway I-238, to west by San Lorenzo High School, to the south by a community free clinic and to the east by commercial and residential development. We understand that the site is owned by the San Lorenzo Unified School District, which intends to use the property as part of the San Lorenzo High School facility.

Initial development of the site appeared to be as agricultural land. The site was subsequently used by the National Guard.

We have performed a Phase I ESA in general conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Designation E 1527-05 for the subject site. Based on the results of our Phase I assessment, Kleinfelder identified the following Recognized Environmental Conditions (RECs) associated with the site:

In summary, Kleinfelder's Phase I ESA revealed evidence of the following recognized environmental conditions (RECs):

- The site contains a 5,000 gallon diesel UST, a 275 gallon waste oil AST, storage of hazardous materials and storage drums of hazardous waste(e.g., oil, anti-freeze, cleaning supplies);

- A surface stain was observed northwest of the armory building, of sufficient size to be considered an REC;
- The site had a previous gasoline release. Although the case was granted regulatory closure, closure was obtained with a concentration of gasoline in groundwater of 600 micrograms per liter (ug/L) and was based on the use of the site at that time;
- Two open leaking underground storage tanks (LUST) cases are located in close proximity to the site.

In addition, although not considered REC's, Kleinfelder's investigation revealed the potential for naturally occurring asbestos (NOA) on site based on the proximity to ultramafic rock formations and the likely presence of PCB containing equipment on site based on the observation of overhead transformers, which may contain PCBs.

In order to address the above described RECs, Kleinfelder performed a limited Phase II ESA for the site, which involved collection and analysis of soil and groundwater samples. The results of the Phase II ESA are as follows:

- Concentrations of total petroleum hydrocarbons (TPH) as gasoline (TPHg), diesel (TPHd) and motor oil (TPHmo), and volatile organic compounds (VOCs) in soil samples collected at the site were not detected at or above their respective laboratory reporting limits or, if detected, were below their respective Environmental Screening Levels (ESLs), if established.
- Concentrations of metals in soil samples collected at the site were not detected at or above their respective laboratory reporting limit or, if detected, were below their respective ESLs, except for arsenic and vanadium. While arsenic concentrations exceed the ESLs for residential and commercial/industrial land use and vanadium concentrations exceed the ESLs for residential land use, arsenic and vanadium are within the range of naturally occurring background concentrations expected for the area.
- Asbestos, chrysotile type, was observed in one of two soil samples collected at the site, however chrysotile was reported as less than 0.25% in the sample.

- Concentrations of TPHg, TPHd, and VOCs in the groundwater samples collected at the site were not detected at or above their respective laboratory reporting limits or, if detected, were below their respective ESLs, if established.
- TPHmo was not detected at or above its laboratory reporting limits in five of six groundwater samples collected at the site. TPHmo was slightly above the ESL in one groundwater sample.

Although Kleinfelder attempted to obtain reasonably ascertainable information regarding the site, some information was either not received or not readily available at the time of this report. Therefore, consistent with ASTM Standard Practice E 1527-05, the following data failure (data gaps) have been identified:

- Records from the county fire department were not available for review.
- Several interior locations on site were not accessed, including rooms undergoing asbestos abatement, the armaments storage vaults and several temporary storage structures.

Based on a review of the data gaps presented above, and in light of the results of the limited Phase II ESA, it is Kleinfelder's opinion that the data failure is not likely to have affected the evaluation of RECs at the site.

In addition to these findings, deviations, historical environmental conditions, and de minimus findings are discussed in Section 9 of this report. This report is subject to the limitations in Section 2.5.

## 2 INTRODUCTION

---

The following report is a summary of work performed using the guidelines set forth in the ASTM Standard E-1527-05, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM Standard). This report also generally conforms to the ASTM Standard's suggested table of contents. Minor format modifications have been made to the ASTM Standard's suggested table of contents by Kleinfelder to assist in better reading and understanding the report findings.

### 2.1. PURPOSE

The purpose of this Phase I ESA is to identify, to the extent feasible pursuant to the scope of work defined in our Proposal Number 01002PROP (document PLE9P177), dated June 26, 2009, and limitations discussed in this report, RECs and other environmental issues related to the subject site. As defined in the ASTM Standard, a REC is:

*The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions.*

This report describes Kleinfelder's assessment methodology and documents our assessment findings, subject to the limitations presented in Section 2.5 of this report.

## 2.2. DETAILED SCOPE-OF-SERVICES

The following sections describe Kleinfelder's work scope:

- Section 2, **Introduction**, includes a discussion of the purpose/reason for performing the Phase I ESA, additional services requested by the Client (i.e., an evaluation of business environmental risk factors associated with the subject site), significant assumptions (i.e., property boundaries if not marked in the field), limitations, exceptions, and special terms and conditions (i.e., contractual), and user reliance parameters.
- Section 3, **Site Description**, is a compilation of information concerning the site location, legal description (if provided), current and proposed use of the subject site, a description of structures and improvements on site at the time of Kleinfelder's assessment, and adjoining property use.
- Section 4, **Records Review**, is a compilation of Kleinfelder's review of several databases available from Federal, State, and local regulatory agencies regarding hazardous substance use, storage, or disposal at the subject site; and for off-site facilities within the search distances specified in the ASTM Standard. Records provided by the Client are summarized and copies of relevant documents are included in the appendices of this report. Physical setting sources (including topography, soil and groundwater conditions) and typical Client-provided information (i.e., title records, environmental liens, specialized knowledge, valuation reduction for environmental issues, and owner, property manager, and occupant information) are also summarized in this section. Other interviews with people knowledgeable about the subject site (including the client) are included in Section 7.
- Section 5, **History of the Site**, summarizes the history of the subject site and adjoining properties. This site history is based on various sources which may include: a review of historical aerial photographs, Sanborn Fire Insurance Maps, city or suburban directories, historical topographic maps, building department records, and results of previous site assessments.

- Section 6, **Site Reconnaissance**, describes Kleinfelder's observations during the site reconnaissance. The methodology used and limiting conditions are described.
- Section 7, **Interviews**, is a summary of telephone and personal interviews conducted with "Key Site Managers" that may include the owner/manager of the facility, occupants/tenants, local government officials, and the Client. Additional interview sources may be contacted if "Key Site Managers" are not available prior to production of this report, and may include adjoining landowners and people with historical knowledge of the area.
- Section 8, **Additional Services**, is a discussion of additional information typically required for school sites by the Department of Toxic Substances Control.
- Section 9, Limited **Phase II ESA**, is a presentation of our methods and findings for our soil and groundwater sampling and analysis, which was performed to address RECs identified in previous sections of the report.
- Section 10, **Evaluation**, is a presentation of our findings and opinions regarding the information in Sections 3 through 9, and presents our conclusions regarding the presence of RECs connected with the site.
- Section 11, **References**, is a summary of some of the resources used to compile this report.

Pertinent documentation regarding the subject site is included in appendices of this report.

### 2.3. ADDITIONAL SERVICES

An evaluation of business environmental risk associated with the subject site was not included in Kleinfelder's scope of work. The scope of this ESA does not incorporate ASTM Standard non-scope considerations, such as asbestos-containing materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, and high voltage power lines.

## 2.4. SIGNIFICANT ASSUMPTIONS

The subject site is hereafter referred to as the “site.” Groundwater is estimated to flow in a generally northwestern direction. This estimation is based on surface topography of the general area, data from former on site and off-site groundwater monitoring wells, and information provided by the EDR Radius Map with GeoCheck.

## 2.5. LIMITATIONS AND EXCEPTIONS

Phase I ESAs are non-comprehensive by nature and may not identify all environmental problems, and will not eliminate all risk. This report is a qualitative assessment. Kleinfelder offers a range of investigative and engineering services to suit the needs of our clients, including more quantitative investigations. Although risk can never be eliminated, more detailed and extensive investigations yield more information, which may help the Client understand and better manage risks. Since such detailed services involve greater expense, we ask our clients to participate in identifying the level of service, which will provide them with an acceptable level of risk. Please contact the signatories of this report if you would like to discuss this issue of risk further.

Kleinfelder performed this Phase I ESA in general accordance with the guidelines set forth in the ASTM Standard, and the proposed scope subsequently approved by our Client. No warranty, either expressed or implied, is made. Environmental issues not specifically addressed in this report were beyond the scope of our services and not included in our evaluation.

This report may be used only by the Client and only for the purposes stated within a reasonable time from its issuance, *but in no event later than 1 year from the date of the report*. Land or facility use, on- and off-site conditions, regulations, or other factors may change over time, and additional work may be required with the passage of time. Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings, and opinions can be considered valid only as of the date of the site visit. This report should not be relied upon after 180 days from the date of its issuance (ASTM Standard, Section 4.6). Any party other than the Client who wishes to use this report shall notify Kleinfelder of such intended use. Based on the intended use of the report, Kleinfelder may require that additional work be performed and that an updated report be issued. Non-compliance



with any of these requirements by the Client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party, and Client agrees to defend, indemnify, and hold harmless Kleinfelder from any claim or liability associated with such unauthorized use or non-compliance.

## 2.6. SPECIAL TERMS AND CONDITIONS

No special terms and conditions in addition to those discussed previously were agreed to either by the Client or Kleinfelder in our Proposal Number 01002PROP (document PLE9P177), dated June 26, 2009.

### 3 SITE DESCRIPTION

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The site description is presented in this section and describes the condition of the site at the time of the Phase I ESA. The site location is shown on Plate 1. Tables 3-1 through 3-5 summarize the physical characteristics of the site and adjoining properties.

#### 3.1. LOCATION AND LEGAL DESCRIPTION

The information presented in Table 3-1 describes the physical location and legal description of the site. This information was obtained from review of various maps (such as topographic maps and tax assessor maps), aerial photographs, public records at city and/or county offices, interviews, and/or information provided by the Client.

**TABLE 3-1  
LOCATION AND LEGAL DESCRIPTION**

Parameter	Information/Comments
ADDRESS	16501 Ashland Avenue
LOCATION	San Lorenzo, Alameda County, California 94580
TOWNSHIP & RANGE	Township 3 South and Range 2 West (Source: United States Geologic Service, Hayward, California Quadrangle, 7.5 Minute Map)
ASSESSOR'S PARCEL NO.	Portion of 413-19-2-4
LEGAL DESCRIPTION	Not available
ACREAGE	Approximately 2 acres
ZONING	CF - Community Facilities

### 3.2. CURRENT/PROPOSED USE OF THE PROPERTY

Land use on site and in the general vicinity appeared to be military on site; educational to the west and south, highway to the north and commercial and residential to the east at the time of Kleinfelder’s assessment. Current and proposed uses are described in Table 3-2.

**TABLE 3-2  
CURRENT/PROPOSED USES**

Parameter	General Observations
<b>CURRENT USE</b>	National Guard Armory and maintenance yard.
<b>PROPOSED USE</b>	Redevelopment as part of the San Lorenzo High school site.

### 3.3. DESCRIPTION OF STRUCTURES/IMPROVEMENTS

Structures and/or improvements observed on site at the time of Kleinfelder’s site reconnaissance are described in Table 3-3.

**TABLE 3-3  
STRUCTURES/IMPROVEMENTS**

Parameter	General Observations
<b>STRUCTURES</b>	14,000 SF armory building and 2,280 SF maintenance building
<b>IMPROVEMENTS</b>	Asphalt paving, 5,000 gallon diesel UST, 2 oil water separators

### 3.4. CURRENT USES OF ADJOINING PROPERTIES

Kleinfelder performed a brief drive-by survey of the properties immediately adjoining to the subject site on July 21, 2009. A summary of the surrounding properties is presented in Table 3-4.

**TABLE 3-4  
ADJOINING PROPERTIES**

<b>Direction</b>	<b>Land Use Description</b>
NORTH	Highway I-238, with residential beyond
SOUTH	San Lorenzo High School and Ashland Free Clinic
EAST	Ashland Avenue with residential and commercial beyond
WEST	San Lorenzo High School.

Hazardous materials and petroleum products are known to be used by adjoining facilities to the east, and are discussed in Sections 4 and 5.

## 4 RECORDS REVIEW

### 4.1. STANDARD ENVIRONMENTAL RECORD SOURCES

The purpose of the records review is to obtain and review records that would help to evaluate RECs of potential concern in connection with the subject site and bordering properties.

Federal, state and local regulatory agencies publish databases or "lists" of businesses and properties that handle hazardous materials or hazardous waste, or are the known location of a release of hazardous substances to soil and/or groundwater. These databases are available for review and/or purchase at the regulatory agencies, or the information may be obtained through a commercial database service. Kleinfelder contracted a commercial database service, Environmental Data Resources, Inc. (EDR), of Milford, Connecticut to perform the government database search for listings within the appropriate ASTM minimum search distance of the site. A description of the types of information contained in each of the databases reviewed and the agency responsible for compiling the data is also included in the EDR Radius Map Report. The EDR database search results are presented in Appendix B, include the databases summarized in Table 4-1.

**TABLE 4-1  
RECORDS REVIEWED, SEARCH DISTANCES AND FINDINGS**

FEDERAL	DISTANCE
Environmental Protection Agency (EPA) National Priority List (NPL)	1-mile
Proposed NPL	1-mile
Delisted NPL	1-mile
NPL Liens	Site
Comprehensive Environmental Response Compensation Liability Information System (CERCLIS)	½-mile
CERC-No Further Remedial Action Planned (NFRAP)	½-mile
Corrective Action (CORRACTS)	1-mile
Resource Conservation Recovery Act (RCRA) Treatment Storage or Disposal (TSD)	½-mile
RCRA-Large Quantity Generator	¼-mile

**Table 4-1 (Continued)  
Records Review-Search Distance**

<b>FEDERAL</b>	<b>DISTANCE</b>
RCRA-Small Quantity Generator	¼-mile
RCRA-Conditionally Exempt Small Quantity Generator	¼-mile
RCRA Non-Generator	¼-mile
Emergency Response Notification System (ERNS)	Site
Hazardous Materials Information Reporting System (HMIRS)	Site
US ENGINEERING CONTROLS	½-mile
US INSTITUTIONAL CONTROLS	½-mile
Department of Defense (DOD)	1-mile
Formerly Used Defense Sites (FUDS)	1-mile
US BROWNSFIELDS	½-mile
CONSENT	1-mile
Records of Decision (ROD)	1-mile
Uranium Mill Tailing Sites (UMTRA)	½-mile
Open Dump Inventory (ODI)	½-mile
Toxic Chemical Release Inventory System (TRIS)	Site
Toxic Substance Control Act (TSCA)	Site
Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA)/TSCA Tracking System (FTTS)	Site
Section Seven Tracking System (SSTS)	Site
Department of Transportation Office of Pipeline Safety (DOT OPS)	Site
DEBRIS REGION 9	½-mile
Integrated Compliance Information System (ICIS)	Site
Land Use Control Information System (LUCIS)	½-mile
Clandestine Drug Labs (CDL)	Site
Radiation Information Database (RADINFO)	Site
LIENS 2	Site
HISTORICAL FTTS	Site
PCB Activity Database System (PADS)	Site
Material Licensing Tracking System (MLTS)	Site
MINES	¼-mile
Facility Index System (FINDS)	Site

**Table 4-1 (Continued)  
Records Review-Search Distance**

<b>STATE/LOCAL/TRIBAL</b>	<b>DISTANCE</b>
RCRA Administrative Action Tracking System (RAATS)	Site
Historical Cal-Sites	1-mile
CA Bond Expenditure Plan	1-mile
School Property Evaluation Program	¼-mile
Toxic Pits	1-mile
Solid Waste Information System (SWF/LF)	½-mile
CA Waste Discharge System (WDS)	Site
Waste Management Unit Database (WMUDS)/Solid Waste Assessment Test (SWAT)	½-mile
Cortese	½-mile
Solid Waste Recycling Facilities (SWRCY)	½-mile
Leaking Underground Storage Tanks (LUST)	½-mile
CA Facility Inventory Database (FID) Underground Storage Tank (UST)	¼-mile
Spills, Leaks, Investigations and Cleanup (SLIC)	½-mile
Land Disposal Sites (LDS)	Site
Military Cleanup Sites	Site
UST	¼-mile
HISTORICAL UST	¼-mile
LIENS	Site
Aboveground Storage Tank (AST)	¼-mile
HIST Cortese	½-mile
Statewide Environmental Evaluation & Planning System (SWEEPS UST)	¼-mile
California Hazardous Material Incident Report System (CHMIRS)	Site
Notify 65	1-mile
DEED	½-mile
Voluntary Cleanup Program (VCP)	½-mile
DRYCLEANERS	¼-mile
Well Investigation Program (WIP)	¼-mile
Clandestine Drug Labs (CDL)	Site
RESPONSE	1-mile

HAZNET	Site
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**Table 4-1 (Continued)  
Records Review-Search Distance**

STATE/LOCAL/TRIBAL	DISTANCE
Emissions Inventory (EMI)	Site
NPDES	Site
HAULERS	Site
ENIROSTOR	1-mile
Alameda County Site List (CS)	½-mile
State Coalition for Remediation of Drycleaners (SCRD)	½-mile
INDIAN RESERVATIONS	1-mile
INDIAN LUST	½-mile
INDIAN UST	¼-mile
INDIAN VCP	½-mile
INDIAN ODI	½-mile
EDR PROPRIETARY RECORDS	DISTANCE
Manufactured Gas Plants	1-mile
EDR Historical Auto Stations	¼-mile
EDR Historical Cleaners	¼-mile

EDR utilizes a geographical information system to plot the locations of reported incidents. This information is reviewed by Kleinfelder to help establish whether the site or nearby properties have been included on the noted databases and lists. The EDR report includes maps, which show the locations of the regulated properties with respect to the site (Page 2 and 3 of EDR's report), and a summary of pertinent information for these properties, including the responsible party, the property address, the distance and direction from the site, and the databases and lists on which the property appears (see Executive Summary pages 1 through 4 of the EDR report).

#### 4.2. RESULTS OF DATABASE SEARCH

The following sections contain information on the results of EDRs record search. Listed search distances are those specified in the ASTM standard. The subject site address is listed in the searched databases as noted below.



#### 4.2.1. Federal Lists

CERCLIS NFRAP The CERCLIS list is a compilation of sites reported to the US EPA that have been investigated or are under investigation for a release or potential release of hazardous materials. As of February 1995, CERCLIS sites designated “No Further Remedial Action Planned” (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require federal Superfund action or NPL consideration.

RCRA SQG RCRA generator listings that indicate hazardous wastes are generated on a facility’s premises as part of the company’s business practices.

#### 4.2.2. Supplemental Federal, State, and Local Lists

ENVIROSTOR The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

LUST The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System. SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

Alameda County CS This database contains 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).

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.

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.

Notify 65 Notify 65 records contain facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk. The data come from the State Water Resources Control Board's Proposition 65 database.

HIST CORTESE This database contains historical records of public drinking water wells with detectable levels of contamination, hazardous substance facilities selected for remedial action, facilities with known toxic material identified through the abandoned site assessment program, facilities with USTs having a reportable release, and solid

waste disposal facilities from which there is known migration. The source is the Cal/EPA Office of Emergency Information.

#### HIST UST

This database identifies historical underground storage tanks.

#### 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).

#### 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.

#### 4.2.3. Target Property

The target property is listed on the LUST, Alameda County CS, RCRA-SQG, FINDS, HAZNET, HIST CORTESE, UST, HIST UST, and SWEEPS UST databases. The subject site is an active UST site. The site is reported as having had a 2,000 gallon waste UST associated with the maintenance shot and a 2,000 gallon gasoline UST. Two LUST cases exist for the site. In 1992 a release was confirmed due to corrosion of

the piping, and a release of unspecified cause was reported in 1997. Both cases are closed. The site also generates waste oil, solvent containing waste (e.g. anti-freeze, cleaning supplies) and other organic solids. No RCRA violations are noted.

#### 4.2.4. Surrounding Properties

A total of 16 discrete properties are reported on the above listed databases which are adjacent, up- or cross-gradient from the site.

Langendorf, located at 16496 Ashland Avenue, north of the subject site, is listed on the HIST UST and SWEEPS UST databases for an 8,000 gallon gasoline UST. This facility was not identifiable during the site visit, and appears to have been redeveloped as residential units.

Kawahara Nursery, located at 16550 Ashland Avenue, adjacent to the east of the subject site is listed on the LUST, Alameda County CS, SWEEPS UST and HIST CORTESE databases due to a 1993 diesel release identified during tank closure. The case is currently open. Based on a review of the December, 2008 Quarterly Groundwater Monitoring Report obtained from the Alameda County Environmental Health Services website, TPH and benzene, toluene, ethylbenzene, and xylenes (BTEX) concentrations from the monitoring well located nearest to the National Guard site were below the limit of detection. As such this site has a generally low likelihood of impacting the subject site, but due to the case status and proximity is still considered an REC.

New Performance, located at 186 Lewelling Boulevard, south of the subject site is listed on the LUST, Alameda County CS, and HIST CORTESE databases due to a 1994 gasoline release identified during tank closure. The case is currently open. This case is further discussed. Based on a review of the January 2001 Quarterly Groundwater Monitoring Report obtained from the Alameda County Environmental Health Services website, the groundwater gradient at New Performance is to the west, making this facility cross-gradient to the site. As such this site has a generally low likelihood of impacting the subject site, but due to the case status and proximity is still considered an REC.

The following facilities are located more than 1,000 feet from the subject site, and due to their distance, direction, case status and/or contaminants of concern are not expected to affect the subject site.

<u>Name</u>	<u>Address</u>	<u>Databases</u>	<u>Status</u>
Mikes Auto Clinic	2 Lewelling Blvd	RCRA-SQG	No violations
Beacon/Econo/Valero	44 Lewelling Blvd	LUST, Alameda County CS, SWEEPS UST, HIST CORTESE, UST	Open
Vern's Service	18L Lewelling Blvd	HIST UST	N/A
Southland Corp	100 Lewelling Blvd	LUST, Alameda County CS, SWEEPS UST, HIST CORTESE	Closed
Max's Auto Repair	508 Lewelling Blvd	LUST, Alameda County CS, SWEEPS UST, HIST CORTESE	Open
Plants Unlimited	16450 Kent Ave	LUST, Alameda County CS, SWEEPS UST, HIST CORTESE, HIST UST	Closed
EBMUD Service Center	589 Lewelling Blvd	LUST, Alameda County CS	Open
Kent Gardens	16438 Kent Ave	SLIC	Closed
Chris Richfield Service	16446 E. 14 <sup>th</sup> St.	HIST CORTESE	N/A
Okada Property	16109 Ashland Ave	LUST, Alameda County CS, HIST CORTESE	Closed
Jack Holland	16301 E. 14 <sup>th</sup> St.	LUST, Alameda County CS, HIST CORTESE	Open
E. 14 <sup>th</sup> St. Autowreckers	16552 E. 14 <sup>th</sup> St.	EnviroStor, NFRAP	NFRAP
None	19984 Meekland	Notify 65	N/A

#### 4.2.5. Orphan List

Sites not plotted by EDR due to poor or inadequate address information are referred to as orphan sites. There are 6 unmapped sites in the EDR report. Because they have

incomplete addresses, these properties are not practically reviewable as defined by the ASTM standard.

#### 4.3. OTHER RECORDS REVIEWED/AGENCIES CONTACTED

The following additional sources of environmental records were reviewed during this Phase I ESA for the purposes of meeting the ASTM Standard. Local regulatory agencies were contacted for reasonably ascertainable and practically reviewable documentation regarding RECs present at the subject site and adjoining facilities (Interview documentation is included in Appendix C). Interviews with local regulatory agency representatives are included in Section 7 of this report. The following agencies were contacted for documentation:

- .....Air Quality District
- .....County Agricultural Commissioner's Office
- .....City Building and Planning Department
- .....County Environmental Management/Health Department
- .....County Fire Department
- .....County/State Office of Emergency Services
- .....State Department of Water Resources
- .....State Water or Environmental Quality Agency
- .....State Division of Oil and Gas
- .....State Department of Toxic Substances Control/Environmental Quality
- .....State Fire Marshal, Pipeline Safety Office
- .....Regional Water Board
- .....City or Municipal Utility District
- .....City or Municipal Water District

Several of the agencies listed above were not contacted because information from the agency is listed in one or more of the regulatory databases reviewed by EDR, Inc. and summarized in the EDR Radius Map report (see Appendix B). The State Division of Oil and Gas was not contacted because information concerning oil and gas fields was obtained from EDR. Map findings are discussed in Table 4-2. Information/responses from the agencies contacted is summarized below:

### City Building and Planning Department

The Alameda County Planning Department was contacted regarding the zoning for the subject site. The site is zoned as CF - Community Facilities.

The Alameda County Building Department was contacted regarding permits and building plans for the site. Files associated with the site address related to the adjacent cellular phone tower which shares the site address. Files available from the Building Department did not pertain to the site.

### County Environmental Management/Health Department

Kleinfelder obtained site related documents from the County Environmental Health Department website at <http://ehgis.acgov.org/dehpublic/dehpublic.jsp>. Files were available related to a release of gasoline to the subsurface from piping from a 2,000 gallon gasoline UST to the fueling pump. Included in the file was a Case Closure Letter from the agency to the National Guard dated October 3, 1997. At the time of case closure, gasoline was detected at a concentration of 600 ug/L in one on site monitoring well, which is above the current ESL of 100 ug/L. It should be noted that the agency documentation specifies that a risk evaluation must be performed in the event that a change in land use is proposed. Soil and ground water investigation documents are further discussed in Section 5.5.

### County Fire Department

Kleinfelder requested information from the County Fire Department. Kleinfelder did not receive a reply to the information request.

### Regional Water Board

According to Ms. Melinda Wong of the Regional Water Quality Control Board (RWQCB), although a case exists for the site, the lead agency is not the RWQCB. The lead agency was identified as the county. Ms. Wong suggested that information be requested from the county.

## 4.4. PHYSICAL SETTING SOURCE(S)

Table 4-2 presents information about the physical setting of the site. This information was obtained from published maps. A geologic and seismic hazard assessment report

(Kleinfelder 2009a) and a geotechnical investigation report (Kleinfelder 2009b) were prepared by Kleinfelder under separate report covers.

**TABLE 4-2  
PHYSICAL SETTING**

<b>Data</b>	<b>Source</b>	<b>General Information</b>
<b>USGS TOPOGRAPHIC QUADRANGLE</b>	Hayward, California Quadrangle, 7.5 Minute Series (Topographic), 1959, (photo-revised 1980).	The subject site is located at an approximate elevation of 40 feet above mean sea level (msl) and the topographic relief slopes to the northwest. Two structures were depicted on site
<b>SOIL TYPE</b>	EDR Radius Map with Geocheck for the Site	The site is underlain primarily by Danville silty clay loam, which is a well drained, partially hydric soil type with slow infiltration rates
<b>OIL AND GAS FIELDS</b>	EDR Radius Map with Geocheck for the Site	Oil and gas fields were not depicted within 1 mile of the site.

Information about the regional geology is presented on Table 4-3. This information was obtained from published data and maps, interviews with public agencies, and/or from previous investigations conducted by Kleinfelder in the vicinity of the site.

**TABLE 4-3  
REGIONAL GEOLOGY AND HYDROGEOLOGY**

<b>Physical Parameter</b>	<b>Information/Comments</b>
<b>REGIONAL GEOMORPHIC PROVINCE</b> (Source: Norris and Web, 1990)	The portion of Alameda County where the site is located falls within the California Coast Ranges Geomorphic province; which is characterized by folds, thrusts, and faults that form a series of nearly parallel northwest-trending ridges, interspersed with alluvium-filled valleys.
<b>DEPTH TO REGIONAL GROUNDWATER</b> (Source: EDR Radius Report with Geocheck for the Site)	The depth to groundwater was not identified. General groundwater depth may be influenced by local pumping, rainfall, and irrigation patterns. Data from former on site groundwater monitoring wells indicates depth to groundwater was 5 to 10 feet in the mids 1990s.



Physical Parameter	Information/Comments
<b>DIRECTION OF ANTICIPATED FLOW</b> <sup>1</sup> (Source: EDR Radius Map with Geocheck for the Site)	The estimated direction of groundwater flow is to the northwest.
<b>REGIONAL GROUNDWATER QUALITY PROBLEMS</b> (Source: EDR Radius Report, Geocheck Version 2.1 Summary)	Regional groundwater quality problems and regional impairments to water quality were not revealed during Kleinfelder's assessment.
<b>WATER SUPPLY</b> (Source: EDR, Inc. Geocheck, beginning p. A-12)	The well search revealed a total of 31 wells within 1 mile of the site, however it is likely that the majority of these wells are monitoring, rather than supply, wells.
<b>FLOOD ZONE DESIGNATION</b> (Source: EDR Radius Report with Geocheck for the Site)	According to the EDR regulatory agency database search report, the subject site is not located within the 100-year or 500-year flood zone.

<sup>1</sup> Groundwater flow direction is based on regional information sources. Site-specific conditions may vary due to a variety of factors including geologic anomalies, utilities, nearby pumping wells (if present), and other developments.

#### 4.5. USER PROVIDED INFORMATION

According to Client, the purpose for performing this Phase I ESA is for due diligence prior to acquisition and development of the site. Information regarding current owner/occupant is listed in Table 4-4.

**TABLE 4-4  
OWNER/OCCUPANT INFORMATION**

Entity	Name
<b>OWNER</b>	San Lorenzo Unified School District
<b>PROPERTY MANAGER</b>	1 <sup>st</sup> Sergeant Cain, Army National Guard
<b>OCCUPANT</b>	National Guard

Interviews of key individuals (“Key Site Managers”) are provided in Section 7. The following section presents information provided by the Client.

#### 4.5.1. Title Records

A Preliminary Title Report was not provided to Kleinfelder for review prior to production of this report. These documents may provide information about land including ownership and other interests in the land, easements, and liens. Not all liens, defects, and encumbrances affecting title to the land may be included on the Preliminary Title Report.

#### 4.5.2. Environmental Liens and Usage Limitations

According to information provided in the EDR report for the site, the site is not listed on the federal or state databases researched.

#### 4.5.3. Value Reduction

As part of the ASTM E 1527-05 process, information must be gathered regarding the prospective purchase price of the property relative to the fair market value of the subject site. If there appears to be a value reduction, that reduction must be identified with respect to whether the difference could be attributed to environmental degradation of the property. The site is currently owned by the client, and is not intended for sale in the near future. As such information related to fair market value compared to proposed purchase price is not available.

#### 4.5.4. Other Information/Documents Provided

The client did not reveal to Kleinfelder any specialized knowledge, commonly known or reasonably ascertainable information.

## 5 HISTORY OF THE SITE

The history of the site was researched to identify obvious uses. Historical land use was researched to the first developed use, or back to 1940, whichever is earlier or readily available. Table 5-1 summarizes the availability of information reviewed during this assessment.

**TABLE 5-1  
HISTORICAL SOURCES**

	<b>Years reviewed</b>	<b>Availability</b>
<b>AERIAL PHOTOGRAPHS</b>	1939, 1946, 1958, 1965, 1974, 1982, 1993, 1998, and 2005	Aerial photographs were available from EDR of Southport, Connecticut.
<b>SANBORN FIRE INSURANCE MAPS</b>	None	According to the Sanborn Library, LLC, fire insurance maps were not prepared for the site area.
<b>CITY DIRECTORIES</b>	1960-2002	City directories were available from EDR of Southport, Connecticut.
<b>HISTORICAL TOPOGRAPHIC MAP REPORT</b>	1899, 1948, 1959, 1968, 1973, 1980 and 1993	Historical maps were available from EDR of Southport, Connecticut.
<b>BUILDING DEPARTMENT</b>	None	Alameda County Building Department.
<b>PREVIOUS ASSESSMENT(S)</b>	1996, 1997	Previous Assessments were available to Kleinfelder for review.

### 5.1. AERIAL PHOTOGRAPHS

A review of historical aerial photography may indicate past activities at a site that may not be documented by other means, or observed during a site visit. The effectiveness of this technique depends on the scale and quality of the photographs and the available coverage. Aerial photographs were obtained from several historical photograph collections through EDR. Aerial photographs covering 67 years were available during the frame that this report was being prepared. A tabulation of the

aerial photographs reviewed is presented in Table 5-2. Copies of the reviewed aerial photographs are included in Appendix D.

**TABLE 5-2  
HISTORICAL AERIAL PHOTOGRAPHS REVIEWED**

<b>Date</b>	<b>Approximate Scale</b>	<b>Type</b>	<b>Source</b>	<b>Quality</b>
1939	1"=555'	Black and White Monoscopic	Fairchild	Fair
1946	1"=655	Black and White Monoscopic	Amman	Good
1958	1"=555'	Black and White Monoscopic	Cartwright	Fair
1965	1"=333'	Black and White Monoscopic	Cartwright	Good
1974	1"=601'	Black and White Monoscopic	NASA	Fair
1982	1"=690'	Black and White Monoscopic	USGS	Poor
1993	1"=666'	Black and White Monoscopic	USGS	Fair
1998	1"=666'	Black and White Monoscopic	USGS	Fair
2005	1"=604'	Color Monoscopic	EDR	Good

**Note:** Aerial photographs only provide information on indications of land use and no conclusions regarding the release of hazardous substances or petroleum products can be drawn from the review of photographs alone.

The site boundaries were approximated during the early years, because physical features were not always readily apparent.

#### 5.1.1. Subject Site

1939: In this photograph the subject site appears to be agricultural land, which is also occupied by several buildings which based on their size may be a farm related residence and out-buildings. Immediately north of the site is a series of long linear structures which may have been equipment sheds or greenhouses. The site is bounded to the east by Ashland Avenue.

1946: This site is substantially similar to what was shown the 1939 photograph.

1958: The photograph shows the National Guard armory in the eastern half of the site. Also present adjacent to the site are San Lorenzo High School, highway I-238 and the commercial structures south of the site.

1965: This photograph depicts the addition of the maintenance building at the southwest corner of the site.

1978 through 2005: These photographs show the site in generally its current configuration, with various changes in the locations of temporary structures and vehicles.

### 5.1.2. Surrounding Areas

In 1939 the area surrounding the site was primarily agricultural, with various residences and other structures scattered throughout the frame of the photograph. Transit improvements included the Southern Pacific railroad line, Western Pacific railroad line, Lewelling Boulevard, Ashland Boulevard and East 14<sup>th</sup> Street. San Lorenzo Creek appears to be a natural waterway, which had not been linearized or lined. The 1946 photograph shows limited residential development, with residential areas east and southwest of the site. By 1958 the majority of the surrounding area has been developed, including residential areas throughout the visible area of the photographs, interspersed with commercial and educational uses. The subsequent photographs depict limited infill development and transit improvements.

## 5.2. SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps provide historical land use information for some metropolitan areas and small established towns. Kleinfelder requested a search of Sanborn Fire Insurance Maps by EDR. Sanborn Fire Insurance Maps were not available for the subject site (see Appendix D).

### 5.3. CITY DIRECTORIES

City Directories provide information regarding property occupants by address. These directories were reviewed by EDR, Inc. and summarized in a report contained in Appendix D. Commercial/industrial uses of the surrounding area include the Kawahara Nursery, San Lorenzo Glass and Window Co., Norcal Pottery Products, Baron Builders, Junction Nursery, and a variety of baking companies. The city directory listing did not provide information beyond what was identified from other sources.

### 5.4. HISTORICAL TOPOGRAPHIC MAP REVIEW

Kleinfelder obtained information regarding historical topographic maps of the site vicinity from EDR, Inc. The topographic maps reviewed for this assessment are listed below in Table 5-3. Copies of the maps are included in Appendix D.

**TABLE 5-3  
HISTORICAL TOPOGRAPHIC MAPS REVIEWED**

<b>Year</b>	<b>Quadrangle</b>	<b>Series</b>	<b>Scale</b>
1899	Haywards	15 minute	1:62,500
1948	Hayward	15 minute	1:50,000
1948	San Leandro	15 minute	1:50,000
1959	Hayward	7.5 minute	1:24,000
1959	San Leandro	7.5 minute	1:24,000
1959 photorevised for 1968	Hayward	7.5 minute	1:24,000
1959 photorevised for 1968	San Leandro	7.5 minute	1:24,000
1959 photorevised for 1973	Hayward	7.5 minute	1:24,000
1959 photorevised for 1973	San Leandro	7.5 minute	1:24,000
1959 photorevised for 1980	Hayward	7.5 minute	1:24,000
1953 photorevised for 1980	San Leandro	7.5 minute	1:24,000
1993	San Leandro	7.5 minute	1:24,000

Kleinfelder reviewed historical topographic maps from 1899, 1948, 1959, 1968, 1973, and 1980, which include the site and topographic maps from an adjacent quadrangle to the west from 1948, 1959, 1968, 1973, 1980 and 1993.

#### 5.4.1. Subject Site

The 1899, and 1948 maps show the subject site as undeveloped, with a series of railroad lines and roadways in the vicinity. The 1959 map shows the armory building

located near the eastern end of the site, with San Lorenzo High School immediately adjacent to the west. The 1968 through 1980 maps show the site in generally its current configuration, with the armory and maintenance buildings depicted.

#### 5.4.2. Surrounding Areas

In 1899 the area surrounding the site showed limited signs of development, including the presence of two rail road lines a variety of roads and the communities of San Lorenzo in the immediate vicinity of the site, Haywards Station southeast of the site and San Leandro northwest of the site. The 1959 map shows nearly complete development of the surrounding area, including the presence of San Lorenzo High School immediately adjacent to the site, highway I-238 immediately north of the site, and a variety of commercial and residential areas. Further development of the surrounding area includes Interstate 580 and the Bay Area Rapid Transit rail line, first shown in the 1968 map.

### 5.5. PREVIOUS ASSESSMENTS

Kleinfelder obtained several reports, telephone conversation logs, and other documents pertaining to the site. The site history and characteristics are summarized in the following two documents, which are included in Appendix E:

- Groundwater Sampling and Closure Report, National Guard Organizational Maintenance Shop No. 35, 16501 Ashland Avenue, San Lorenzo, California. Geomatrix Consultants, December 1996.
- Fuel Leak Site Case Closure for the California National Guard Facility, at 16501 Ashland Ave., San Lorenzo, 94580. October 3, 1997. Alameda County Health Care Services Agency.

According to these documents the site had a 2,000 gasoline UST installed in approximately 1951. In 1989 piping for this UST was replaced and a 5,000 gallon diesel UST was installed. At that time corrosion was identified in the product piping. In 1993 the gasoline UST and associated piping were removed. Free product was observed in the excavation. Soil and groundwater samples were collected in 1993, 1995 and 1996. Monitoring wells were installed in 1993 which were sampled four times between July 1993 and August 1996. The maximum concentration of TPHg in the soil

boring was 450 mg/kg. TPHg concentrations during the final groundwater monitoring event were below the limit of detection for two monitoring wells and 600 ug/L for the third. The case achieved closure with contamination remaining on site.



## 6 SITE RECONNAISSANCE

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Kleinfelder's assessment activities included a site reconnaissance. This section summarizes the findings from the site reconnaissance.

### 6.1. METHODOLOGY AND LIMITING CONDITIONS

Mehagan Hopkins of Kleinfelder performed a site reconnaissance on July 21, 2009 accompanied by First Sergeant Cain and Sergeant Kumar of the Army National Guard. The approximate site boundaries are shown on Plate 2, "Site Plan". The site reconnaissance included a visual inspection of the site to assist in identifying the presence or likely presence of hazardous substances or petroleum hydrocarbons under conditions that indicate an existing release, a past release, or threat of release into structures, soil, groundwater, or surface water at the site (RECs). Observations of readily apparent environmental conditions are summarized in Table 6-1, and color photographs of the site are presented on Plates 3 and 4. The approximate site boundaries are shown on Plate 2, "Site Plan".

### 6.2. GENERAL SITE SETTING

The subject site is approximately 2 acres and is located at 16501 Ashland Avenue in San Lorenzo, California. The site is currently used as an Army National Guard armory and maintenance facility. The armory building occupies the eastern portion of the site and the maintenance building and associated materials occupy the western portion of the site (See Plate 2). A variety of jeeps and other military vehicles are stored on-site, primarily along the northern boundary, as are temporary storage buildings and equipment stored prior to deployment. The entirety of the site was asphalt or concrete covered, with the majority of the surface in a good state of repair. General housekeeping at the site was good, with drip pans located beneath vehicles and absorbent material below chemical storage areas, including the waste oil AST. A single large surface stain was observed near the northwest corner of the armory building (see Photograph 3, Plate 3). Minor oil staining was also observed throughout the site.

Several interior areas of the site were inaccessible at the time of the site visit, including a limited number of non-permanent storage units, offices undergoing asbestos abatement, and the weapons vaults. This constitutes a data gap for this report.

### 6.3. SITE OBSERVATIONS

Site observations are further described in Table 6-1.

**TABLE 6-1  
SITE OBSERVATIONS**

General Observations	Remarks	Observed	Not Observed
Current use	National Guard Armory and Maintenance Facility.	X	
Current use likely to indicate RECs	Not Observed.	X	
Past use	Not Observed.		X
Past use likely to indicate RECs	Not Observed.		X
Structures	14,000 SF armory building and 2,280 SF maintenance building.	X	
Roads	Not Observed.		X
Topography of site and surrounding area	Generally flat.	X	
Aboveground storage tank (AST)	264 gallon waste oil.	X	
Asbestos and lead	Asbestos abatement in progress.	X	
Below grade vaults	Below grade oil water separators.	X	
Burned or buried debris	Not Observed.		X
Chemical storage	Storage of new oil, used oil, new anti-freeze, used anti-freeze, flammables and cleaning supplies (see Plate 2 for areas).	X	
Chemical mixing areas	Not Observed.		X
Discolored soil or water	Not Observed.		X
Ditches, streams	Not Observed.		X

**TABLE 6-1  
SITE OBSERVATIONS  
(Continued)**

General Observations	Remarks	Observed	Not Observed
Drains and piping (e.g. floor drains, floor trenches, bay drains, sand traps, grease traps)	Storm drains & oil water separator drains.	X	
Drums	12 drums, varying in size from 30 to 55 gallons in located a waste chemicals storage shed northwest of the site.	X	
Electrical or hydraulic equipment (polychlorinated biphenyls [PCBs])	2 pole mounted transformers on power lines.	X	
<b>Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.</b>		<b>Observed</b>	<b>Not Observed</b>
Fill dirt from an unknown source.	Not Observed.		X
Fill dirt from a known source	Not Observed.		X
Hazardous chemical and petroleum products in connection with <i>known</i> use.	Vehicle fluids and cleaning supplies primarily in storage cabinets near the maintenance building. Approximately 200 gallons combined of oil, antifreeze, and aerosol cans	X	
Hazardous chemical and petroleum products in connection with <i>unknown</i> use.	Not Observed.		X
Non-hazardous containers with contents	Cleaning supplies.	X	
Hazardous waste storage	268 gallon waste oil AST & 12 drums (mostly empty) for waste oil and other waste materials located at a waste chemicals storage shed northwest of the site.	X	
Heating and cooling system and fuel source	Wall mounted HVAC.	X	

**TABLE 6-1  
SITE OBSERVATIONS  
(Continued)**

General Observations	Remarks	Observed	Not Observed
Industrial waste treatment equipment	Not Observed.		X
Loading and unloading areas	Not Observed.		X
Odors	Not Observed.		X
Pits, ponds, or lagoons	Not Observed.		X
Pools of liquid	Not Observed.		X
Process waste water	Not Observed.		X
Sanitary sewer system	Sewer manhole observed.	X	
Septic system (e.g. tank and leach fields)	Not Observed.		X
Soil piles	Not Observed.		X
Solid waste/evidence of Unauthorized Dumping	Not Observed.		X
Stained pavement, soil or concrete	De minimis stains on asphalt. One surface stain approximately 8 x 25 feet.	X	
Stains or corrosion ( <i>interior, non-water</i> )	Not Observed.		X
<b>Interior and exterior observations or environmental conditions that may involve the use, storage, disposal or generation of hazardous substances or petroleum products.</b>		<b>Observed</b>	<b>Not Observed</b>
Storm drains/catch basins	Storm drain located on the western border of the property.	X	
Stressed vegetation	Not Observed.		X
Sumps and clarifiers	2 oil water separators.	X	
Surface water	Not Observed.		X
Underground storage tank(s) (including heating oil tanks)	5,000 gallon diesel.	X	

**TABLE 6-1  
SITE OBSERVATIONS  
(Continued)**

General Observations	Remarks	Observed	Not Observed
Unidentified substance containers	Not Observed.		X
Waste water discharge	Not Observed.		X
Water supplies ( <i>potable and process</i> )	Potable water supply.	X	
Wells ( <i>irrigation, monitoring, or domestic</i> )	Not Observed.		X
Wells ( <i>dry</i> )	Not Observed.		X
Wells ( <i>oil and gas</i> )	Not Observed.		X

## 7 INTERVIEWS

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The names of “Key Site Managers” were provided to Kleinfelder by San Lorenzo Unified School District. Key Site Managers are contacted to obtain current and historical environmental information concerning the subject site. The following sections highlight information revealed during the interviews.

### 7.1. INTERVIEW WITH OWNER/CLIENT

Kleinfelder provided the Client with a copy of an “Interview Questionnaire – Phase I Environmental Site Assessment” for delivery to the current property owner. According to Mr. David Estrada, District representative, he has no information regarding the site other than that a UST was replaced in 1990-1992.

### 7.2. INTERVIEW WITH OCCUPANTS

Ms. Hopkins spoke with First Sergeant Cain and Sergeant Kumar during the site visit. Sgts. Cain and Kumar have been associated with the site for seven and six years, respectively. Sgt Kumar identified the locations of hazardous materials and hazardous wastes on site. Both Sgts. acknowledged the previous gasoline UST, however removal occurred prior to their association with the site. According to Sgt. Kumar the diesel UST contained approximately 300 gallons of fuel at the time of the site visit, with approximately 7,000 gallons of fuel in the vehicle tanks. Vehicles were turned on and left idling to deplete their fuel reserves prior to their anticipated transport to an alternate facility. Sgt. Kumar stated that the waste oil AST is inspected daily for quantity and total pressure and that the AST is emptied approximately every six months when the tank is approximately 75% full. Regarding the use of drip pans for parked vehicles, Sgt. Kumar indicated that this has been the standard practice throughout this tenure at the site.

### 7.3. INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

Kleinfelder spoke with local government officials as part of the file review process. File review results are discussed in Section 4.3.

## **8 ADDITIONAL SERVICES**

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### **8.1. PCB Containing Electrical Equipment**

Kleinfelder observed the presence of potentially PCB containing overhead transformers at the southern border of the site. Evidence of a PCB release was not identified.

### **8.2. NATURALLY-OCCURRING ASBESTOS ROCK FORMATIONS**

Kleinfelder reviewed geologic and topographic maps of the area to assess the potential for the site to contain naturally-occurring asbestos (NOA). NOA is most commonly found in and immediately adjacent to ultramafic rock formations. NOA may also be found in other geologic settings, such as fault shear zones, metamorphic contacts, mélanges, and alluvial deposits derived from ultramafic rocks (DTSC, 2004).

The closest mapped outcrops of ultramafic rock to the Site occur in Hayward, at a distance of less than 10 miles southwest of the Site (Jenkins, 1961). Based on the geologic setting and the distance from the Site to the closest mapped ultramafic rock, NOA deposits may be present on the site.

### **8.3. PIPELINES**

Kleinfelder contacted the Office of the State Fire Marshal (OSFM), Pipeline Safety Division. According to Ms. Lisa Dowdy of OSFM, there are no OSFM jurisdictional pipelines in proximity to the site.

## 9 LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

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Based on an initial interview with the Client and our preliminary Phase I ESA findings, Kleinfelder recommended that sampling be performed to investigate the potential RECs associated with the Site, and the potential concerns of historical operations at the Site and adjacent properties. The goal of the sampling and analysis activities were to assess possible impacts to soil and groundwater beneath the Site related to: the past and current use of the Site as a vehicle maintenance/storage area; and operations of potential concern at adjacent properties. Soil and groundwater samples from the Site were collected for chemical analysis. Sample locations are shown on Plate 2. This section describes the initial investigative methods used to assess the potential impacts to soil and groundwater at the Site, and the results of the investigation.

### 9.1. SOIL AND GROUNDWATER SAMPLING ACTIVITIES

On August 13 and 14, 2009, Kleinfelder performed a combined geotechnical investigation and limited Phase II ESA. Kleinfelder collected soil and groundwater samples at the site from select borings for chemical analysis.

#### 9.1.1. Soil Borings

On August 13 and 14, 2009, Kleinfelder collected soil and groundwater samples from six borings and three near-surface locations at the site. Exploration Geoservices of Oroville, California, a state-licensed drilling contractor (C57 License No. 884827), Kleinfelder's subcontractor, provided drilling services for the soil borings under the direction of Mr. Nathan Berner of Kleinfelder. Soil boring locations were surveyed using a hand-held Global Positioning System (GPS) receiver, and are shown on Plate 2.

Prior to drilling soil borings, Kleinfelder obtained a drilling permit from the Alameda County Public Works Agency. A copy of the drilling permit is included in Appendix F. Kleinfelder notified Underground Service Alert (USA) at least 48 hours prior to drilling, as required by law, to notify local utilities with underground facilities in the vicinity of the investigation area. Kleinfelder retained a private utility locator to clear the boring locations using geophysical equipment.



### 9.1.2. Soil Sampling

Exploration Geoservices provided drilling services for the soil borings using a truck-mounted hollow-stem auger drill rig equipped with eight-inch hollow-stem augers. Soil borings for the ESA were advanced to approximate depths ranging from 15 feet to 20 feet bgs. Soil samples were collected using the modified-California (mod-Cal) sampling system. The hollow-stem auger rig advances a five-foot long steel auger to the approximate sampling depth. The auger casing has an inside diameter of approximately four inches and the mod-Cal sampling system collects samples every five feet.

Soil boring samples were collected in stainless steel sampling sleeves and inspected for indications of staining and/or odors. A photoionization detector (PID) was used for evaluating the presence of volatile organic compounds in the soil samples. The soil borings were logged in the field using the Unified Soil Classification System. The soil boring logs are included in Appendix G.

Soil boring samples were collected at an approximate depth of 4 and 12 feet from six borings. Staining and odors were not observed during drilling activities. Two additional soil samples were collected from 0.5 feet bgs and 9 feet bgs from boring B-2 for asbestos analysis; these samples were collected from the first two distinct soil horizons observed on-site. The soil samples were sealed on both ends with Teflon sheets and rubber end caps.

Three surface soil samples were also collected from landscaping areas along the main armory building from an approximate depth of 0.5 feet bgs using a slide hammer and stainless steel sampling sleeves. The steel sampling sleeves were sealed on both ends with Teflon sheets and rubber end caps.

Seventeen soil samples were placed in laboratory-supplied containers/cooler, labeled, chilled with water-based ice and transferred to McCampbell Analytical, Inc. under chain-of-custody protocol for analysis. Soil sampling equipment was decontaminated between sample intervals and locations, as described below.

### 9.1.3. Groundwater Sampling

Groundwater was encountered in the soil borings at depths ranging from 15 feet to 20 feet bgs. One groundwater grab sample was collected from six of the soil borings (B-1W, B-2W, B-6W, B-8W, B-9W, and B-10W) through the drill rig steel casing using a new disposable polyethylene bailer. After the final depth of the boring was reached, the steel casing was retreated five feet from the base of the boring to ensure that the casing did not impede groundwater flow into the borehole. Six groundwater samples were placed in laboratory-supplied containers/cooler, labeled, chilled with water-based ice and transferred to McCampbell Analytical, Inc. under chain-of-custody protocol for analysis.

After each groundwater sample was collected, the steel casing was removed and decontaminated, and the borehole was backfilled with neat cement grout placed with a tremie pipe and abandoned according to drilling permit requirements.

## 9.2. DECONTAMINATION PROCEDURES

Non-expendable sampling equipment was decontaminated prior to each use using an Alconox detergent and water solution and two stage rinse including de-ionized water. Expendable equipment, including tubing, bailers and sample containers and liners, was discarded after each use. New expendable equipment was used whenever possible.

## 9.3. INVESTIGATIVE-DERIVED WASTE MANAGEMENT

Investigative-derived waste (IDW) that was generated during the site investigation included soil cuttings and decontamination water. Waste soil cuttings were placed in 55-gallon steel drums, labeled, and left on site. Based on the analytical results from the soil borings and near-surface samples described below, the soil cuttings could be disposed of at a permitted facility under the required disposal manifest, or reused on-site.

## 9.4. CHEMICAL TESTING AND RESULTS

Soil and groundwater samples were submitted to McCampbell Analytical, Inc. of Pittsburg, California for analysis.

#### 9.4.1. Analytical Parameters

Twelve soil samples, collected from six soil borings on August 13 and 14, 2009, were analyzed for the following parameters:

- VOCs by EPA method 8260B;
- TPHg, TPHd and TPHmo ranges by EPA method 8015M; and
- California assessment manual 17 (CAM 17) (Title 22) metals by EPA method 6020A.

Two soil samples, collected from one soil boring on August 14, 2009, were analyzed for asbestos by polarized light microscopy (PLM) by California Air Resources Board (ARB) method 435.

Three near-surface soil samples, collected on August 14, 2009, were analyzed for total lead by EPA method 6010.

Six groundwater grab samples, collected from borings on August 13 and 14, 2009, were analyzed for the following parameters:

- VOCs by EPA method 8260B; and
- TPHg, TPHd and TPHmo by EPA method 8015m with silica gel clean-up.

#### 9.4.2. Analytical Results

The analytical results for soil samples collected on August 13 and 14, 2009, are summarized on Table 8-1. The results for groundwater samples collected on August 13 and 14, 2009, are summarized on Table 8-2. The analytical reports from McCampbell Analytical, Inc. are included in Appendix H.

The San Francisco Bay RWQCB established ESLs as an initial indicator of potential impacts to human health and the environment. ESLs are not intended to be cleanup criteria but indicators of when additional investigation may be warranted. Kleinfelder compared the detected concentrations of each compound to its established ESL. The ESLs that are referenced in this report are those for near-surface soils (less than three meters) at residential properties where groundwater is a current or potential source of drinking water.

#### 9.4.2.1. Soil Samples

Concentrations of TPHg, TPHd, TPHmo and VOCs in the soil samples collected at the site were not detected at or above their respective laboratory reporting limits or, if detected, were below their respective ESLs, if established.

Concentrations of metals in the soil samples collected at the site were not detected at or above their respective laboratory reporting limit or, if detected, were below their respective ESLs, except for arsenic and vanadium. Arsenic was detected at concentrations ranging from 2.8 to 8.4 milligrams per kilogram (mg/kg), exceeding the ESLs for residential and commercial/industrial land use of 0.39 and 1.6 mg/kg, respectively. While these arsenic concentrations exceed the ESLs for residential and commercial/industrial land use, they are within the range of naturally occurring background concentrations expected for the area, as presented in the USGS Professional Paper 1270 (Shacklette 1984). Vanadium was detected at concentrations ranging from 46 to 61 mg/kg, exceeding the ESL for residential land use of 16 mg/kg. Detected vanadium concentrations were below its ESL for commercial/industrial land use of 200 mg/kg. While these vanadium concentrations exceed the ESL values for residential land use, they are within the range of naturally occurring background concentrations expected for the area, as presented in the USGS Professional Paper 1270 (Shacklette 1984).

Asbestos, chrysotile type, was observed in the soil sample collected from 0.5 feet bgs from boring B-2 (B-2-1/2), however, chrysotile was reported as less than 0.25% in that sample. Asbestos was not detected in soil sample collected from 9 feet bgs from boring B-2 (B-2-9)

#### 9.4.2.2. Groundwater Samples

Concentrations of TPHg, TPHd, and VOCs in the groundwater samples collected at the site were not detected at or above their respective laboratory reporting limits or, if detected, were below their respective ESLs, if established.

TPHmo was not detected at or above its laboratory reporting limits in five of six groundwater samples collected at the site. TPHmo was detected at a concentration of 290 micrograms per liter ( $\mu\text{g/L}$ ) in groundwater sample B-1W. This was above the ESL of 100  $\mu\text{g/L}$  for TPHmo.

## 10 EVALUATION

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Kleinfelder performed this ESA of the subject site in conformance with the scope and limitations of ASTM Standard Practice E1527-05. The following sections describe Kleinfelder's findings and provide general background information about the site. Findings include RECs, historical RECs, and notation of de minimis quantities, as applicable to the site. Business environmental risk issues are discussed in Section 8.3, Deviations. In summary, Kleinfelder's assessment revealed the following information about the site:

### 10.1. BACKGROUND

Kleinfelder understands that San Lorenzo Unified School District currently owns the subject property located at 16501 Ashland Avenue in San Lorenzo, California. The property has been leased to the National Guard since the early 1950s. The lease will expire in approximately 1 year, at which time the District will re-occupy and possibly redevelop the site for school uses. The subject site is approximately 2 acres in area, and is currently used by the National Guard as a maintenance facility and armory. The site is bounded to the north by highway I-238, to west by San Lorenzo High School, to the south by a community free clinic and to the east by commercial and residential development. Initial development of the site appeared to be as agricultural land. The site was subsequently used by the National Guard in generally its current configuration.

### 10.2. FINDINGS AND OPINIONS

Kleinfelder contracted with a commercial database service, EDR, to review the federal, state, and local regulatory agency lists for references to the site and listings within the appropriate ASTM Standard minimum search distance of the site. In addition, regulatory agencies were contacted to provide additional information about the site and surrounding area, including the county building department, county planning department, county fire department, county environmental management department, and the regional water board.

Based on regulatory agency document review, the site had a gasoline release identified during UST removal; this case has been granted regulatory closure (historical REC). In addition the site is recorded as an active UST site due to the presence of a diesel UST.

The subject site was listed on regulatory agency databases researched by EDR.

Offsite, there were two facilities listed within the ASTM search distance, which upon review, had potential to impact the subject site. Kawahara Nursery, located east of the site, and New Performance, located south of the site, have active LUST cases. Based on the reported concentrations, the likelihood of contaminant migration from these facilities to the site is low, however these were still considered an REC for the site.

The history of the site was reviewed to identify obvious uses of the site from the present to first developed use, from readily available resources. Available sources date to 1899 and include aerial photographs, City Directories, and historical topographic maps. Based on the information obtained, the site has been used for agricultural and military purposes.

Kleinfelder performed a site visit on July 21, 2009. There were RECs observed, including the presence of a diesel UST, a waste oil AST, used and unused motor oil, used and unused coolant, and used and unused batteries. The UST, AST, and chemicals storage are located near the southwest corner of the site, north of the maintenance building. In addition, a surface stain of size sufficient to be considered an REC was located northwest of the armory building.

Interviews were conducted with the client and occupant. These interviews did not reveal evidence of RECs beyond those discussed above.

### 10.3. DEVIATIONS AND ADDITIONAL SERVICES

An evaluation of business environmental risk associated with the parcel(s) was not included in Kleinfelder's scope of services. The ESA does not incorporate non-scope considerations, such as asbestos-containing materials testing, radon, lead-based paint testing, lead in drinking water testing, wetlands, regulatory compliance, cultural and

historical resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, and high voltage power lines.

Based on DTSC guidance for investigation of school sites, Kleinfelder included an evaluation of naturally occurring asbestos within 10 miles of the site, visual evidence of PCB containing equipment and OSFM jurisdictional pipelines in the Phase I investigation. Kleinfelder also conducted a Phase II ESA, which is included in this report.

#### 10.4. CONCLUSIONS AND RECOMMENDATIONS

We have performed a Phase I ESA in conformance with the scope of work required by ASTM Standard Practice E 1527-05 and our Proposal Number 01002PROP (PLE9P177), dated June 26, 2009, for the property located 16501 Ashland Avenue in San Lorenzo, California. Any exceptions to, or deviations from, this practice are described in Section 10.3 of this report. In summary, Kleinfelder's assessment revealed evidence of the following recognized environmental conditions (RECs):

- The site contains a 5,000 gallon diesel UST, a 275 gallon waste oil AST, storage of hazardous materials and storage of hazardous waste;
- A surface stain was observed northwest of the armory building, of sufficient size to be considered an REC;
- The site had a previous gasoline release. Although the case achieved closure, closure was obtained with a concentration of gasoline in groundwater of 600 ug/L, and the case closure summary states that if a change in land use is proposed then an evaluation of risk from the contaminant exposure must be made ;
- Two open LUST cases are located in close proximity to the site.

In addition, although not considered REC's, Kleinfelder's investigation revealed the potential for naturally occurring asbestos on site based on the proximity to ultramafic rock formations and the likely presence of PCB containing equipment on site based on the observation of overhead transformers, which may contain PCBs (though evidence of a release was not identified).



In order to address the RECs, Kleinfelder performed a Phase II ESA for the site, which involved collection and analysis of soil and groundwater samples. The results of the Phase II ESA are as follows:

- Concentrations of TPHg, TPHd and TPHmo, and VOCs in soil samples collected at the site were not detected at or above their respective laboratory reporting limits or, if detected, were below their respective ESLs, if established.
- Concentrations of metals in soil samples collected at the site were not detected at or above their respective laboratory reporting limit or, if detected, were below their respective ESLs, except for arsenic and vanadium. While arsenic concentrations exceed the ESLs for residential and commercial/industrial land use and vanadium concentrations exceed the ESLs for residential land use, arsenic and vanadium are within the range of naturally occurring background concentrations expected for the area.
- Asbestos, chrysotile type, was observed in one of two soil samples collected at the site, however, chrysotile was reported as less than 0.25% in that sample.
- Concentrations of TPHg, TPHd, and VOCs in the groundwater samples collected at the site were not detected at or above their respective laboratory reporting limits or, if detected, were below their respective ESLs, if established.
- TPHmo was not detected at or above its laboratory reporting limits in five of six groundwater samples collected at the site. TPHmo was slightly above the ESL in one groundwater sample.

#### 10.4.1. Data Gaps

Although Kleinfelder attempted to obtain reasonably ascertainable information regarding the site, some information was either not received or not readily available at the time of this report. Therefore, consistent with ASTM Standard Practice E 1527-05, the following data failure (data gaps) have been identified:

- Records from the county fire department were not available for review.
- Several interior locations on site were not accessed, including rooms undergoing asbestos abatement, the armaments storage vaults and several temporary storage structures.

Based on a review of the data gaps presented above, and in light of the results of the Limited Phase II ESA, it is Kleinfelder's opinion that the data failure is not likely to have affected the evaluation of RECs at the site.

## 11 REFERENCES

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Shacklette, H.T., Boerngen, J.G.. 1984. Element concentrations in soils and other surficial materials of the conterminous United States. United States Geological Survey Professional Paper 1270.

United States Geologic Survey (USGS), 7.5-Minute Series (Topographic) Quadrangle Maps, Hayward, dated 1953 (photorevised 1980) and San Leandro, dated 1993.

Additional sources may be referenced separately in the report text.

# **TABLES**

**TABLE 8-1  
SUMMARY OF SOIL ANALYTICAL RESULTS  
16501 ASHLAND AVENUE  
SAN LORENZO, CALIFORNIA**

Analyte (mg/kg)	Method	Sample ID, Date, and Depth (feet)															RWQCB ESL <sup>1</sup>	
		B-1-5 08/13/09 Depth: 5	B-1-12 08/13/09 Depth: 12	B-2-3 08/14/09 Depth: 3	B-2-12 08/14/09 Depth: 12	B-6-4 08/13/09 Depth: 4	B-6-12 08/13/09 Depth: 12	B-8-4 08/13/09 Depth: 4	B-8-12 08/13/09 Depth: 12	B-9-4 08/13/09 Depth: 4	B-9-12 08/13/09 Depth: 12	B-10-4 08/14/09 Depth: 4	B-10-12 08/14/09 Depth: 12	SS-1 08/14/09 Depth: 0.5	SS-2 08/14/09 Depth: 0.5	SS-3 08/14/09 Depth: 0.5	Residential Land Use	Commercial / Industrial Land Use
<b>Volatile Organic Compounds</b>	8260B																	
Benzene		ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	---	---	---	0.044	0.044
Toluene		ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	---	---	---	2.9	2.9
Ethylbenzene		ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	---	---	---	3.3	3.3
Total Xylenes		ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	---	---	---	2.3	2.3
Tetrachloroethylene (PCE)		ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.013	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	---	---	---	0.34	0.70
Trichloroethylene (TCE)		ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	---	---	---	0.46	0.46
<b>Petroleum Hydrocarbons</b>	8015B <sup>2</sup>																	
TPH-Gasoline		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	---	---	---	83	83
TPH-Diesel		ND(1.0)	6.8	ND(1.0)	ND(1.0)	8.3	ND(1.0)	4.1	2.3	ND(1.0)	ND(1.0)	1.9	ND(1.0)	---	---	---	83	83
TPH-Motor Oil		ND(5.0)	12	ND(5.0)	ND(5.0)	30	ND(5.0)	10	6.1	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	---	---	---	410	2500
<b>CAM 17 Metals</b>	6020A																	
Antimony		ND	ND	0.55	ND	ND	ND	ND	0.55	ND	0.51	ND	---	---	---	6.3	40	
Arsenic		<b>5.8</b>	<b>8.4</b>	<b>8.4</b>	<b>5.7</b>	<b>6.6</b>	<b>4.6</b>	<b>7.3</b>	<b>2.8</b>	<b>8.2</b>	<b>4.3</b>	<b>7.9</b>	<b>4.9</b>	---	---	---	<b>0.39</b>	<b>1.6</b>
Barium		180	180	160	150	150	290	190	180	210	300	180	220	---	---	---	750	500
Beryllium		0.57	0.7	0.52	0.6	0.57	0.57	0.65	0.78	0.83	0.79	0.68	0.86	---	---	---	4	8
Cadmium		0.27	ND	ND	ND	ND	ND	0.25	ND	0.27	ND	ND	ND	---	---	---	1.7	7.4
Chromium III		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	750	750
Chromium VI		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	8
Total Chromium		51	67	48	60	49	49	62	65	66	66	60	72	---	---	---	NE	NE
Cobalt		10	10	12	9.8	10	16	13	6.3	10	16	9.3	11	---	---	---	40	80
Copper		21	28	23	21	22	20	25	26	28	28	24	30	---	---	---	230	230
Lead		7.0	8.2	8.4	7.4	7.5	8.2	8.5	7.0	9.1	9.1	7.9	9.1	68	52	11	200	750
Mercury		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	1.3	10
Molybdenum		ND	ND	ND	ND	ND	ND	ND	ND	0.62	ND	ND	ND	---	---	---	40	40
Nickel		51	67	46	54	49	56	62	51	66	64	55	67	---	---	---	150	150
Selenium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	10	10
Silver		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	20	40
Thallium		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	1.3	16
Vanadium		<b>48</b>	<b>61</b>	<b>55</b>	<b>51</b>	<b>48</b>	<b>46</b>	<b>58</b>	<b>50</b>	<b>61</b>	<b>54</b>	<b>57</b>	<b>61</b>	---	---	---	<b>16</b>	200
Zinc		52	67	60	62	56	43	64	56	70	59	61	65	---	---	---	600	600

**Notes:**

Samples were analyzed by McCampbell Analytical, Inc of Pittsburg, California, a state-certified analytical laboratory. Laboratory data met EPA and laboratory specifications for quality assurance and quality control.

**Bold** results indicated detections exceeding ESLs.

<sup>1</sup> California Regional Water Quality Control Board, San Francisco Bay Region. *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables, Shallow Soils, Groundwater is Current or Potential Source of Drinking Water*, Interim Final, November 2007, Revised May 2008.

<sup>2</sup> Total petroleum hydrocarbons in the gasoline range analyzed by EPA Method 8015Bm.

**Acronyms/Abbreviations:**

mg/kg - milligrams per kilogram

TPH - Total Petroleum Hydrocarbons

ESLs - Environmental Screening Levels

RWQCB - Regional Water Quality Control Board (San Francisco Bay Region)

ND - Not detected at or above laboratory reporting limit

NE - Not established

--- Not Analyzed

PCE - Tetrachloroethylene

TCE - Trichloroethylene

MTBE - Methyl tert-butyl ether

TPHg - TPH as gasoline

TPHd - TPH as diesel

TPHmo - TPH as motor oil

**TABLE 8-2  
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS (GRAB SAMPLES)  
16501 ASHLAND AVE  
HAYWARD, CALIFORNIA**

Sample ID and Date								
Analyte (µg/L)	Method	B-1W 08/13/09	B-2w 08/14/09	B-6W 08/13/09	B-8W 08/13/09	B-9W 08/13/09	B-10W 08/14/09	RWQCB ESL <sup>1</sup>
<b>Volatile Organic Compounds</b>	8260B							
Benzene		ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	1.0
Toluene		ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	40
Ethylbenzene		ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	30
Total Xylenes		ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	20
PCE		ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	0.51	5.0
TCE		ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	2.9	5.0
MTBE		ND(0.5)	ND(0.5)	ND(0.5)	0.56	ND(0.5)	1.5	5.0
<b>Petroleum Hydrocarbons</b>	8015B <sup>2</sup>							
TPHg		ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	100
TPHd		96	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	100
TPHmo		<b>290</b>	ND(100)	ND(100)	ND(100)	ND(100)	ND(100)	<b>100</b>

**Notes:**

Samples were analyzed by McCampbell Analytical, Inc of Pittsburg, California, a state-certified analytical laboratory. Laboratory data met EPA and laboratory specifications for quality assurance and quality control.

**Bold** results indicated detections exceeding ESLs.

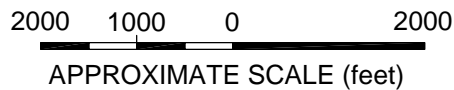
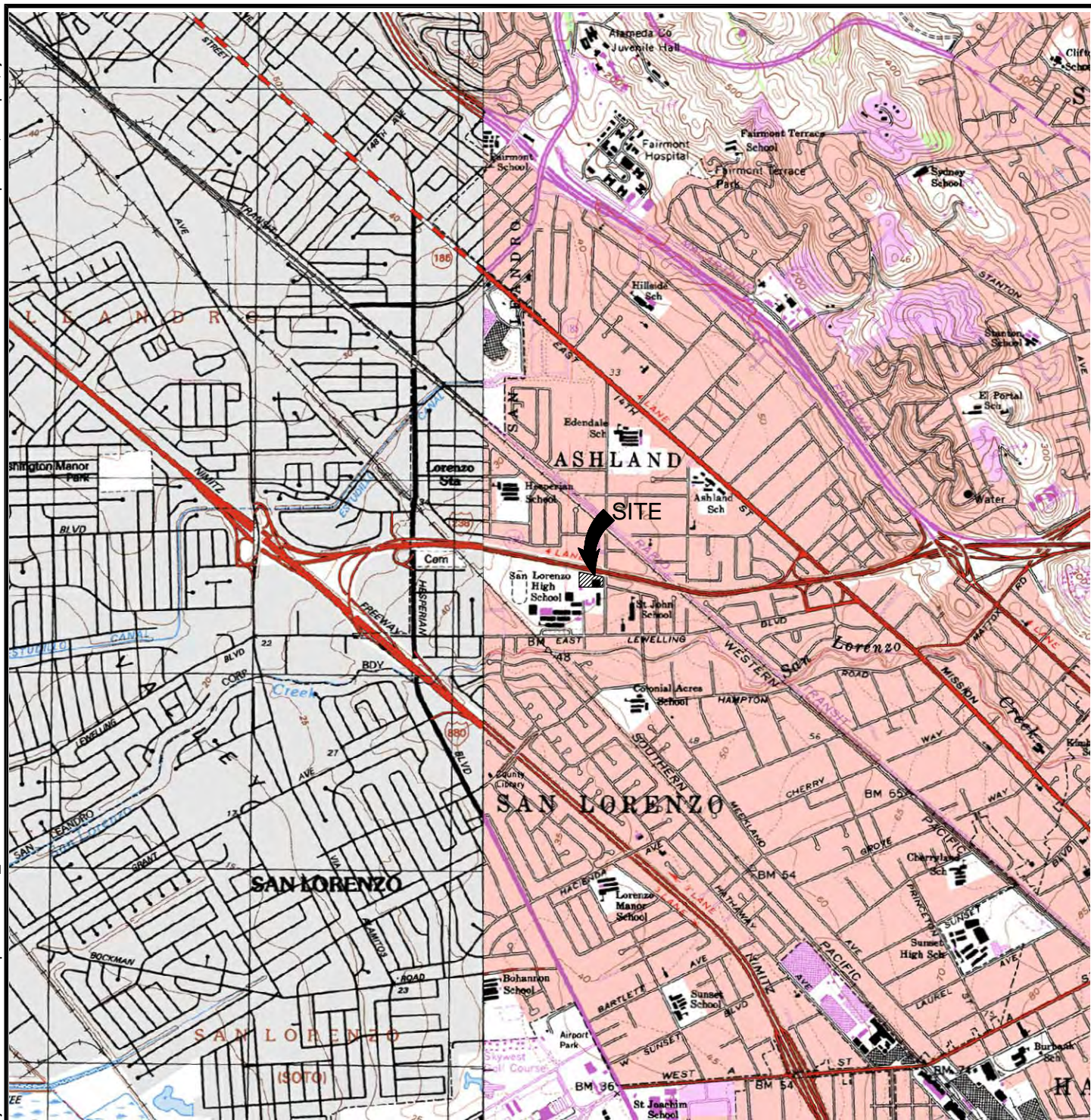
<sup>1</sup> California Regional Water Quality Control Board, San Francisco Bay Region. *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables, Shallow Soils, Groundwater is Current or Potential Source of Drinking Water*, Interim Final, November 2007, Revised May 2008.

<sup>2</sup> Total petroleum hydrocarbons in the gasoline range analyzed by EPA Method 8015Bm.

Acronyms/Abbreviations:

- µg/L - micrograms per liter
- TPH - Total Petroleum Hydrocarbons
- ESLs - Environmental Screening Levels
- RWQCB - Regional Water Quality Control Board (San Francisco Bay Region)
- ND - Not detected at or above laboratory reporting limit as presented in parenthesis.
- PCE - Tetrachloroethylene
- TCE - Trichloroethylene
- MTBE - Methyl tert-butyl ether
- TPHg - TPH as gasoline
- TPHd - TPH as diesel
- TPHmo - TPH as motor oil

# PLATES



REFERENCE:  
 USGS 7.5 Minute Series (Topographic) Hayward  
 Quadrangle, dated 1959 Photorevised 1980 and San  
 Leandro Quadrangle, dated 1993

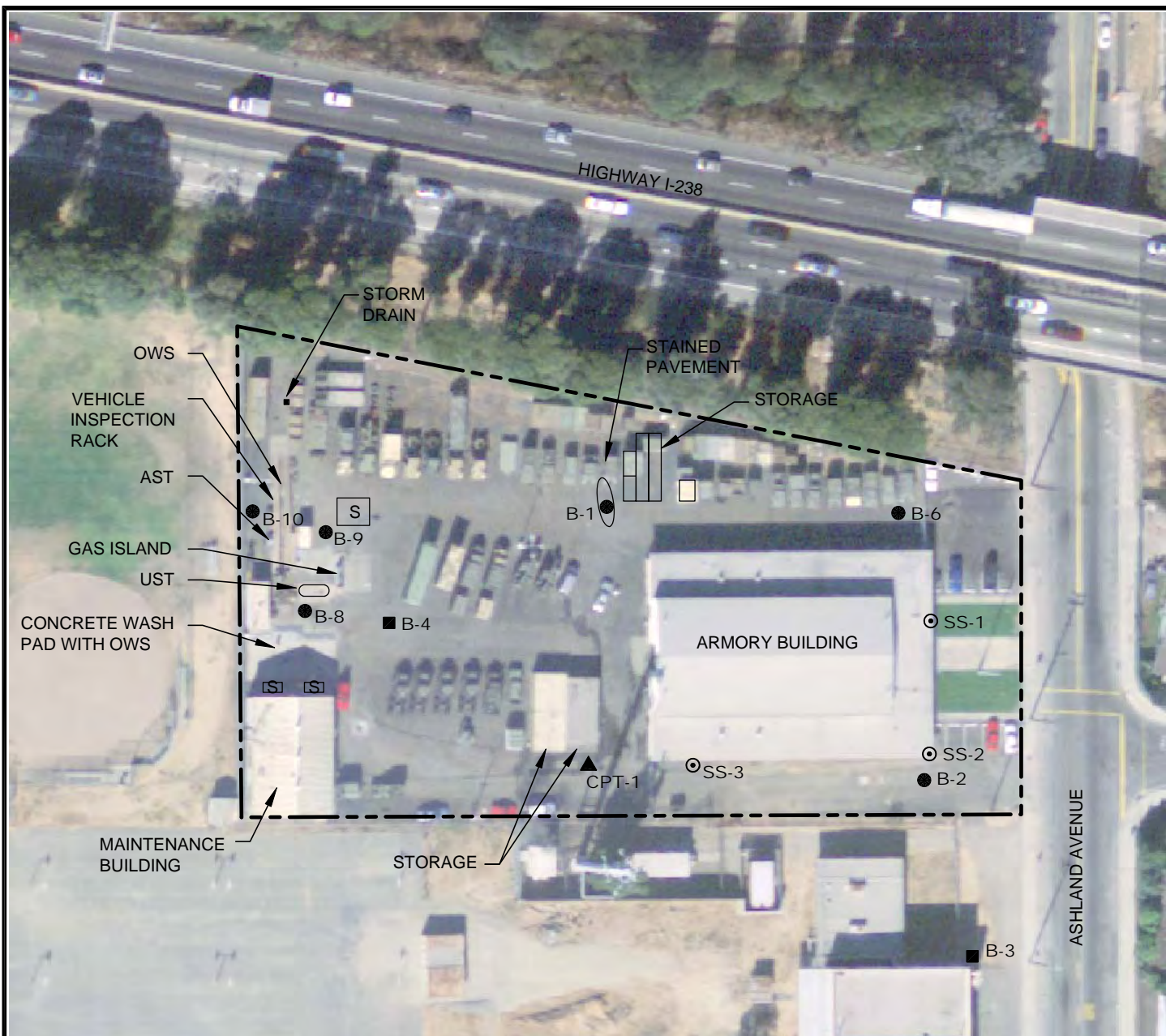


PROJECT NO.	105205
DRAWN:	SEPT 2009
DRAWN BY:	JDS
CHECKED BY:	SD
FILE NAME:	
VIC-PLAN-PHOTOS.dwg	

SITE VICINITY MAP	
SLUSD - NATIONAL GUARD ARMORY 16501 ASHLAND AVENUE SAN LORENZO, CALIFORNIA	

PLATE	1
-------	---

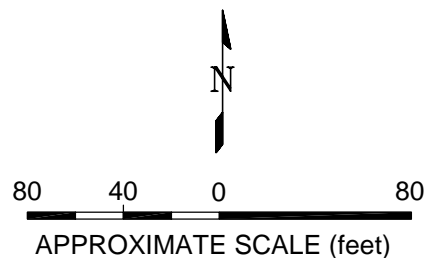




**LEGEND**

- PROPERTY LINE
- UST UNDERGROUND STORAGE TANKS
- AST ABOVEGROUND STORAGE TANKS
- S CHEMICAL STORAGE
- OWS OIL WATER SEPARATOR
- SOIL BORING LOCATIONS - COMBINED GEOTECH/ENVIRONMENTAL
- SOIL BORING LOCATIONS - GEOTECH
- ⊙ NEAR SURFACE SAMPLE LOCATIONS
- ▲ CONE PENETRATION TEST

NOTE: Locations are approximate.



REFERENCE:  
USGS National Map Seamless Server,  
San Francisco-Oakland image, dated 2004

	PROJECT NO. 105205	<p style="font-size: 24px; font-weight: bold;">SITE PLAN</p> <p>SLUSD - NATIONAL GUARD ARMORY 16501 ASHLAND AVENUE SAN LORENZO, CALIFORNIA</p>	PLATE
	DRAWN: SEPT 2009		2
	DRAWN BY: JDS		
	CHECKED BY: SD		
FILE NAME: VIC-PLAN-PHOTOS.dwg			



PHOTOGRAPH 1. Overview of site from northeastern boundary, shows armory building in foreground and adjacent cellular tower in background.



PHOTOGRAPH 2. Interior view of main room of armory building, with office doors visible along the edges. Stored furniture appeared to have been removed to allow asbestos abatement of select rooms.



PHOTOGRAPH 3. Surface staining at northwest corner of armory building.



PHOTOGRAPH 4. Overhead transformers located along southern boundary of site.



PHOTOGRAPH 5. Vehicle storage throughout site, primarily along northern border and between the maintenance and armory buildings. Vehicles appeared to be in good condition and stored with drip pans to contain possible oil leaks.



PHOTOGRAPH 6. Water purification with installed diesel generator. Generator was unused and had not previously been fueled.



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SITE RECONNAISSANCE  
PHOTOGRAPHS  
JULY 21, 2009

SLUSD - NATIONAL GUARD ARMORY  
16501 ASHLAND AVENUE  
SAN LORENZO, CALIFORNIA

PLATE

3



PHOTOGRAPH 7. Overview of maintenance building from the east. Building contains two maintenance bays and several offices.



PHOTOGRAPH 8. Overhead crane used to lift vehicles for maintenance. Hydraulic lifts not installed.



PHOTOGRAPH 9. Diesel fueling pump, located north of maintenance building.



PHOTOGRAPH 10. Used motor oil AST. Area beneath AST contained absorbent material. Staining around AST minimal.



PHOTOGRAPH 11. New vehicle fluids storage, located adjacent to the north side of maintenance building



PHOTOGRAPH 12. Waste fluids storage, north of maintenance building.



PROJECT NO.	105205
DRAWN:	SEPT 2009
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CHECKED BY:	SD
FILE NAME:	VIC-PLAN-PHOTOS.dwg

SITE RECONNAISSANCE  
PHOTOGRAPHS (continued)  
JULY 21, 2009

PLATE

SLUSD - NATIONAL GUARD ARMORY  
16501 ASHLAND AVENUE  
SAN LORENZO, CALIFORNIA

4

# **APPENDIX A**

## **QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS**

## STATEMENT OF QUALIFICATIONS

I declare that to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in CFR Part 312.



---

James A. Lehrman, PG, CHG, REA  
Environmental Group Manager

The resume of above-listed environmental professional performing this environmental site assessment is on file at the Kleinfelder office and is available on request.

# **APPENDIX B**

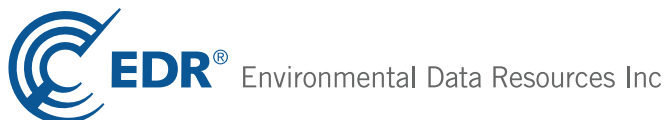
## **REGULATORY AGENCY DATABASE REPORT**

**SLUSD**

16501 Ashland Avenue  
San Lorenzo, CA 94580

Inquiry Number: 02542549.2r  
July 15, 2009

**The EDR Radius Map™ Report with GeoCheck®**



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://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 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

16501 ASHLAND AVENUE  
SAN LORENZO, CA 94580

#### COORDINATES

Latitude (North): 37.689300 - 37° 41' 21.5"  
Longitude (West): 122.119300 - 122° 7' 9.5"  
Universal Transverse Mercator: Zone 10  
UTM X (Meters): 577650.9  
UTM Y (Meters): 4171503.0  
Elevation: 41 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 37122-F1 HAYWARD, CA  
Most Recent Revision: 1980  
  
West Map: 37122-F2 SAN LEANDRO, CA  
Most Recent Revision: 1980

### AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2005  
Source: USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
SAN LORENZO SATELLITE SUPPORT 16501 ASHLAND AVE SAN LORENZO, CA 94580	HIST UST	N/A
ORGANIZATIONAL SHOP 35 16501 ASHLAND AVE. SAN LORENZO, CA 94580	UST	N/A
CALIFORNIA ARMY NATIONAL GUARD MA 16501 ASHLAND AVE SAN LORENZO, CA	UST	N/A

## EXECUTIVE SUMMARY

CALIFORNIA MILITARY DEPT 16501 ASHLAND AVE SAN LORENZO, CA 94580	HIST UST SWEEPS UST	N/A
CALIFORNIA NATL GUARD FACILITY 16501 ASHLAND AVE SAN LORENZO, CA 94580	LUST Status: Completed - Case Closed Alameda County CS	N/A
OMS #35 16501 ASHLAND AVE SAN LORENZO, CA 94580	RCRA-SQG FINDS HAZNET HIST CORTESE	CAD981369085
SAN LORENZO OMS #35 16501 ASHLAND AVE SAN LORENZO, CA 94580	HIST UST	N/A

### **DATABASES WITH NO MAPPED SITES**

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

### **STANDARD ENVIRONMENTAL RECORDS**

#### ***Federal NPL site list***

NPL..... 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

#### ***Federal CERCLIS list***

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

#### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Transporters, Storage and Disposal

## EXECUTIVE SUMMARY

### ***Federal RCRA generators list***

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

### ***Federal institutional controls / engineering controls registries***

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***

RESPONSE..... State Response Sites

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

SWF/LF..... Solid Waste Information System

### ***State and tribal leaking storage tank lists***

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

### ***State and tribal registered storage tank lists***

AST..... Aboveground Petroleum Storage Tank Facilities  
INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal voluntary cleanup sites***

VCP..... Voluntary Cleanup Program Properties  
INDIAN VCP..... Voluntary Cleanup Priority Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
ODI..... Open Dump Inventory  
WMUDS/SWAT..... Waste Management Unit Database  
SWRCY..... Recycler Database  
HAULERS..... Registered Waste Tire Haulers Listing  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US CDL..... Clandestine Drug Labs

## EXECUTIVE SUMMARY

HIST Cal-Sites..... Historical Calsites Database  
SCH..... School Property Evaluation Program  
Toxic Pits..... Toxic Pits Cleanup Act Sites  
CDL..... Clandestine Drug Labs

### **Local Lists of Registered Storage Tanks**

CA FID UST..... Facility Inventory Database

### **Local Land Records**

LIENS 2..... CERCLA Lien Information  
LUCIS..... Land Use Control Information System  
LIENS..... Environmental Liens Listing  
DEED..... Deed Restriction Listing

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
CHMIRS..... California Hazardous Material Incident Report System  
LDS..... Land Disposal Sites Listing  
MCS..... Military Cleanup Sites Listing

### **Other Ascertainable Records**

RCRA-NonGen..... RCRA - Non Generators  
DOT OPS..... Incident and Accident Data  
DOD..... Department of Defense Sites  
FUDS..... Formerly Used Defense Sites  
CONSENT..... Superfund (CERCLA) Consent Decrees  
ROD..... Records Of Decision  
UMTRA..... Uranium Mill Tailings Sites  
MINES..... Mines Master Index File  
TRIS..... Toxic Chemical Release Inventory System  
TSCA..... Toxic Substances Control Act  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
SSTS..... Section 7 Tracking Systems  
ICIS..... Integrated Compliance Information System  
PADS..... PCB Activity Database System  
MLTS..... Material Licensing Tracking System  
RADINFO..... Radiation Information Database  
RAATS..... RCRA Administrative Action Tracking System  
CA BOND EXP. PLAN..... Bond Expenditure Plan  
NPDES..... NPDES Permits Listing  
CA WDS..... Waste Discharge System  
Cortese..... "Cortese" Hazardous Waste & Substances Sites List  
DRYCLEANERS..... Cleaner Facilities  
WIP..... Well Investigation Program Case List  
EMI..... Emissions Inventory Data  
INDIAN RESERV..... Indian Reservations  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing

### **EDR PROPRIETARY RECORDS**

#### **EDR Proprietary Records**

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

## EXECUTIVE SUMMARY

EDR Historical Auto Stations.. EDR Proprietary Historic Gas Stations  
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 12/03/2007 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>E. 14TH STREET AUTO WRECKERS</i></b>	<b><i>16552 E. 14TH STREET</i></b>	<b><i>ENE 1/4 - 1/2 (0.498 mi.)</i></b>	<b><i>F30</i></b>	<b><i>48</i></b>

#### ***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 11/12/2008 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>MIKES AUTO CLINIC</i></b>	<b><i>2 LEWELLING BLVD</i></b>	<b><i>SW 1/8 - 1/4 (0.206 mi.)</i></b>	<b><i>12</i></b>	<b><i>17</i></b>

## EXECUTIVE SUMMARY

### **State- and tribal - equivalent CERCLIS**

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 05/27/2009 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EAST 14TH STREET AUTOWRECKERS Status: No Further Action	16552 EAST 14TH ST	ENE 1/4 - 1/2 (0.498 mi.)	F29	47
EAST 14TH STREET AUTO WRECKERS Status: Refer: Other Agency	16552 EAST 14TH STREET	ENE 1/4 - 1/2 (0.498 mi.)	F31	49

### **State and tribal leaking storage tank lists**

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 04/08/2009 has revealed that there are 10 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>KAWAHARA NURSERY</b> Status: Open - Site Assessment	16550 ASHLAND AVE	S 0 - 1/8 (0.022 mi.)	9	14
<b>NEW PERFORMANCE</b> Status: Open - Site Assessment	186 LEWELLING BLVD E	S 1/8 - 1/4 (0.142 mi.)	11	16
<b>BEACON 3721 (FORMER)</b> Status: Open - Remediation	44 LEWELLING BLVD	SW 1/8 - 1/4 (0.234 mi.)	B13	20
<b>SOUTHLAND CORP</b> Status: Completed - Case Closed	100 LEWELLING BLVD	WSW 1/4 - 1/2 (0.297 mi.)	18	24
<b>MAX'S AUTO REPAIR</b> Status: Open - Site Assessment	508 LEWELLING BLVD E	ESE 1/4 - 1/2 (0.302 mi.)	19	26
<b>PLANTS UNLIMITED</b> Status: Completed - Case Closed	16450 KENT AVE	NE 1/4 - 1/2 (0.328 mi.)	C20	29
EBMUD SOUTH AREA SERVICE CENTE Status: Open - Site Assessment	589 LEWELLING	ESE 1/4 - 1/2 (0.330 mi.)	D21	31
<b>UNOCAL</b> Status: Open - Verification Monitoring	376 LEWELLING BLVD	WSW 1/4 - 1/2 (0.464 mi.)	E24	35
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>OKADA PROPERTY</b> Status: Completed - Case Closed	16109 ASHLAND AVE	N 1/4 - 1/2 (0.478 mi.)	27	39

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>JACK HOLLAND</b> Status: Open - Site Assessment	<b>16301 14TH ST E</b>	<b>NNE 1/4 - 1/2 (0.493 mi.)</b>	<b>28</b>	<b>40</b>

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 04/08/2009 has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>KENT GARDENS</b> Facility Status: Completed - Case Closed	<b>16438 KENT AVENUE</b>	<b>NE 1/4 - 1/2 (0.339 mi.)</b>	<b>C23</b>	<b>35</b>

Alameda County CS: 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).

A review of the Alameda County CS list, as provided by EDR, and dated 04/24/2009 has revealed that there are 10 Alameda County CS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>KAWAHARA NURSERY</b>	<b>16550 ASHLAND AVE</b>	<b>S 0 - 1/8 (0.022 mi.)</b>	<b>9</b>	<b>14</b>
<b>NEW PERFORMANCE</b>	<b>186 LEWELLING BLVD E</b>	<b>S 1/8 - 1/4 (0.142 mi.)</b>	<b>11</b>	<b>16</b>
<b>BEACON 3721 (FORMER)</b>	<b>44 LEWELLING BLVD</b>	<b>SW 1/8 - 1/4 (0.234 mi.)</b>	<b>B13</b>	<b>20</b>
<b>SOUTHLAND CORP</b>	<b>100 LEWELLING BLVD</b>	<b>WSW 1/4 - 1/2 (0.297 mi.)</b>	<b>18</b>	<b>24</b>
<b>MAX'S AUTO REPAIR</b>	<b>508 LEWELLING BLVD E</b>	<b>ESE 1/4 - 1/2 (0.302 mi.)</b>	<b>19</b>	<b>26</b>
<b>PLANTS UNLIMITED</b>	<b>16450 KENT AVE</b>	<b>NE 1/4 - 1/2 (0.328 mi.)</b>	<b>C20</b>	<b>29</b>
<b>EBMUD-SOUTH AREA SERVICE CNTR</b>	<b>589 E LEWELLING BLVD</b>	<b>ESE 1/4 - 1/2 (0.331 mi.)</b>	<b>D22</b>	<b>31</b>
<b>UNOCAL</b>	<b>376 LEWELLING BLVD</b>	<b>WSW 1/4 - 1/2 (0.464 mi.)</b>	<b>E24</b>	<b>35</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>OKADA PROPERTY</b>	<b>16109 ASHLAND AVE</b>	<b>N 1/4 - 1/2 (0.478 mi.)</b>	<b>27</b>	<b>39</b>
<b>JACK HOLLAND</b>	<b>16301 14TH ST E</b>	<b>NNE 1/4 - 1/2 (0.493 mi.)</b>	<b>28</b>	<b>40</b>

### **State and tribal registered storage tank lists**

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 04/08/2009 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>GEAR WORKS</b>	<b>16446 ASHLAND AVE.</b>	<b>N 0 - 1/8 (0.072 mi.)</b>	<b>10</b>	<b>15</b>
<b>BEACON 3721</b>	<b>44 LEWELLING BLVD.</b>	<b>SW 1/8 - 1/4 (0.234 mi.)</b>	<b>B15</b>	<b>23</b>
<b>SAN LORENZO VALERO (CUPA)</b>	<b>44 LEWELLING BLVD</b>	<b>SW 1/8 - 1/4 (0.234 mi.)</b>	<b>B16</b>	<b>23</b>

## EXECUTIVE SUMMARY

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Local Lists of Registered Storage Tanks***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 3 HIST UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LANGENDORF</b>	<b>16496 ASHLAND AVE</b>	<b>N 0 - 1/8 (0.010 mi.)</b>	<b>8</b>	<b>13</b>
ECONO	44 LEWELLING BLVD	SW 1/8 - 1/4 (0.234 mi.)	B14	22
VERN'S SERVICE OF SAN LORENZO	18L LEWELLING BLVD	SW 1/8 - 1/4 (0.241 mi.)	17	23

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 4 SWEEPS UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LANGENDORF</b>	<b>16496 ASHLAND AVE</b>	<b>N 0 - 1/8 (0.010 mi.)</b>	<b>8</b>	<b>13</b>
<b>KAWAHARA NURSERY</b>	<b>16550 ASHLAND AVE</b>	<b>S 0 - 1/8 (0.022 mi.)</b>	<b>9</b>	<b>14</b>
<b>GEAR WORKS</b>	<b>16446 ASHLAND AVE.</b>	<b>N 0 - 1/8 (0.072 mi.)</b>	<b>10</b>	<b>15</b>
<b>BEACON 3721 (FORMER)</b>	<b>44 LEWELLING BLVD</b>	<b>SW 1/8 - 1/4 (0.234 mi.)</b>	<b>B13</b>	<b>20</b>

#### ***Other Ascertainable Records***

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 [CALSTATES].

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 11 HIST CORTESE sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>KAWAHARA NURSERY</b>	<b>16550 ASHLAND AVE</b>	<b>S 0 - 1/8 (0.022 mi.)</b>	<b>9</b>	<b>14</b>
<b>NEW PERFORMANCE</b>	<b>186 LEWELLING BLVD E</b>	<b>S 1/8 - 1/4 (0.142 mi.)</b>	<b>11</b>	<b>16</b>
<b>BEACON 3721 (FORMER)</b>	<b>44 LEWELLING BLVD</b>	<b>SW 1/8 - 1/4 (0.234 mi.)</b>	<b>B13</b>	<b>20</b>
<b>SOUTHLAND CORP</b>	<b>100 LEWELLING BLVD</b>	<b>WSW 1/4 - 1/2 (0.297 mi.)</b>	<b>18</b>	<b>24</b>
<b>MAX'S AUTO REPAIR</b>	<b>508 LEWELLING BLVD E</b>	<b>ESE 1/4 - 1/2 (0.302 mi.)</b>	<b>19</b>	<b>26</b>
<b>PLANTS UNLIMITED</b>	<b>16450 KENT AVE</b>	<b>NE 1/4 - 1/2 (0.328 mi.)</b>	<b>C20</b>	<b>29</b>
<b>UNOCAL</b>	<b>376 LEWELLING BLVD</b>	<b>WSW 1/4 - 1/2 (0.464 mi.)</b>	<b>E24</b>	<b>35</b>
DON DEL COMPANY	15636 40 USHER	WSW 1/4 - 1/2 (0.476 mi.)	E25	39
CHRIS' RICHFIELD SERVICE	16446 14TH	NE 1/4 - 1/2 (0.477 mi.)	26	39
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>OKADA PROPERTY</b>	<b>16109 ASHLAND AVE</b>	<b>N 1/4 - 1/2 (0.478 mi.)</b>	<b>27</b>	<b>39</b>
<b>JACK HOLLAND</b>	<b>16301 14TH ST E</b>	<b>NNE 1/4 - 1/2 (0.493 mi.)</b>	<b>28</b>	<b>40</b>



## EXECUTIVE SUMMARY

Notify 65: Notify 65 records contain facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk. The data come from the State Water Resources Control Board's Proposition 65 database.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 5 Notify 65 sites within approximately 1 mile of the target property.

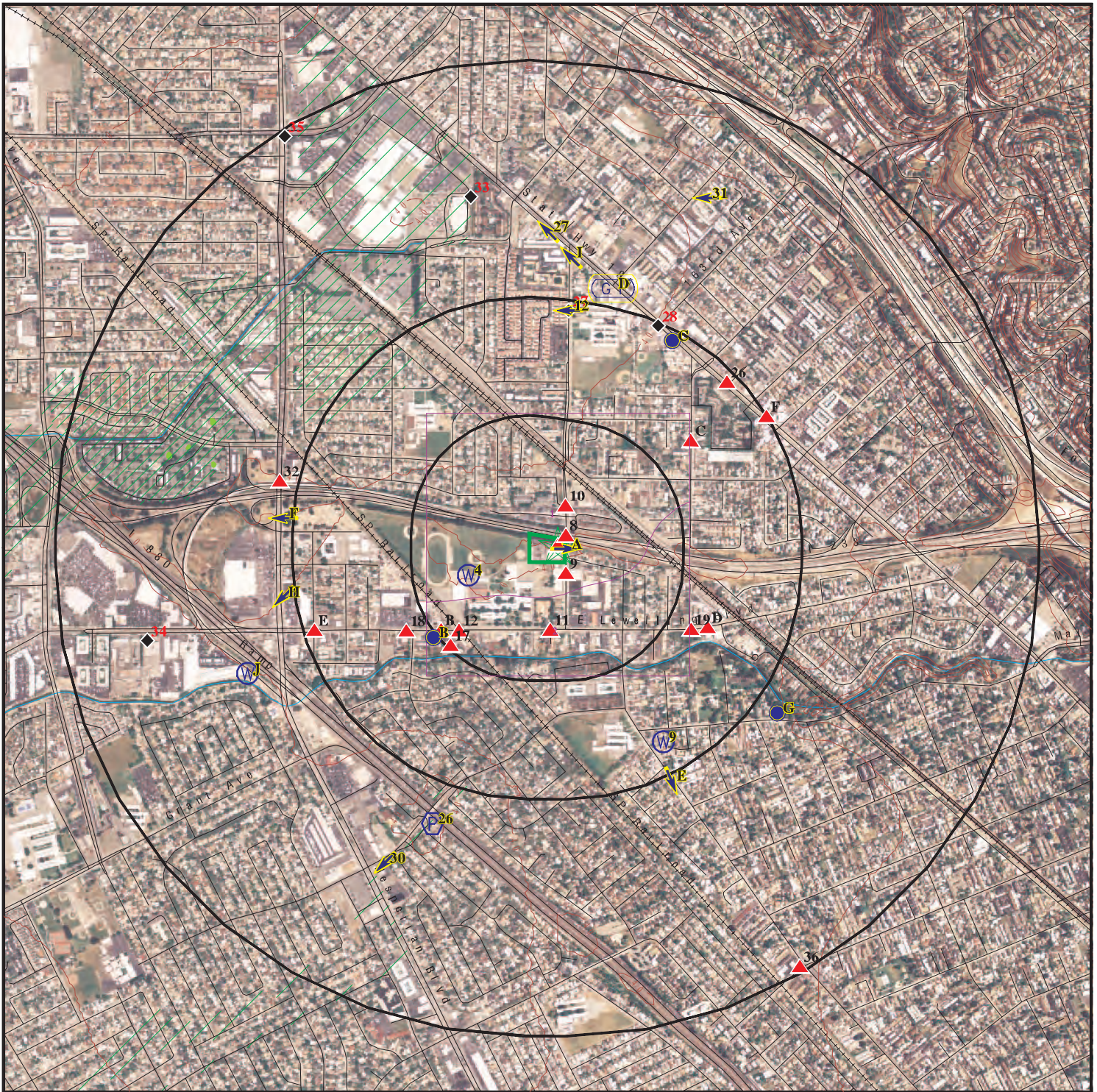
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FOUR STAR LUMBER CO	15444 HESPERIAN BOULEVA	WNW 1/2 - 1 (0.539 mi.)	32	50
NONE	19984 MEEKLAND	SSE 1/2 - 1 (0.985 mi.)	36	51
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNOCAL SERVICE STATION #6277	15803 EAST 14TH STREET	N 1/2 - 1 (0.722 mi.)	33	50
CALTRANS MAINTENANCE YARD	600 LEWELLING BOULEVARD	WSW 1/2 - 1 (0.823 mi.)	34	50
USA PETROLEUM	15120 HEPERIAN BOULEVAR	NNW 1/2 - 1 (0.985 mi.)	35	51

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
LONG, GARY A. & VIRGINIA	HIST CORTESE
VERN'S SERVICE OF SAN LORENZO	SWEEPS UST
EDEN ROCK PROPS	CERC-NFRAP
ARDEN ROAD PROPERTY	CERC-NFRAP
BAY CITIES RUBBISH DSPL CO	CERC-NFRAP
PG&E GAS PLANT SAN LEANDRO	CERC-NFRAP

# OVERVIEW MAP - 02542549.2r



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Oil & Gas pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

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: SLUSD  
 ADDRESS: 16501 Ashland Avenue  
 San Lorenzo CA 94580  
 LAT/LONG: 37.6893 / 122.1193

CLIENT: Kleinfelder, Inc.  
 CONTACT: Mehagan Hopkins  
 INQUIRY #: 02542549.2r  
 DATE: July 15, 2009 3:55 pm

# DETAIL MAP - 02542549.2r



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Oil & Gas 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: SLUSD  
 ADDRESS: 16501 Ashland Avenue  
 San Lorenzo CA 94580  
 LAT/LONG: 37.6893 / 122.1193

CLIENT: Kleinfelder, Inc.  
 CONTACT: Mehagan Hopkins  
 INQUIRY #: 02542549.2r  
 DATE: July 15, 2009 3:56 pm

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>STANDARD ENVIRONMENTAL RECORDS</u></b>								
<b><i>Federal NPL site list</i></b>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL		1.000	0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS		0.500	0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP		0.500	0	0	1	NR	NR	1
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS		1.000	0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG	X	0.250	0	1	NR	NR	NR	1
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS		TP	NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL</i></b>								
RESPONSE		1.000	0	0	0	0	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
ENVIROSTOR		1.000	0	0	2	0	NR	2
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF		0.500	0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	X	0.500	1	2	7	NR	NR	10
SLIC		0.500	0	0	1	NR	NR	1
Alameda County CS	X	0.500	1	2	7	NR	NR	10

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 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
<b>State and tribal registered storage tank lists</b>								
UST	X	0.250	1	2	NR	NR	NR	3
AST		0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
VCP		0.500	0	0	0	NR	NR	0
INDIAN VCP		0.500	0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
HAULERS		TP	NR	NR	NR	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US CDL		TP	NR	NR	NR	NR	NR	0
HIST Cal-Sites		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
CA FID UST		0.250	0	0	NR	NR	NR	0
HIST UST	X	0.250	1	2	NR	NR	NR	3
SWEEPS UST	X	0.250	3	1	NR	NR	NR	4
<b>Local Land Records</b>								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
LIENS		TP	NR	NR	NR	NR	NR	0
DEED		0.500	0	0	0	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS		TP	NR	NR	NR	NR	NR	0
CHMIRS		TP	NR	NR	NR	NR	NR	0
LDS		TP	NR	NR	NR	NR	NR	0
MCS		TP	NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA-NonGen		0.250	0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN		1.000	0	0	0	0	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
CA WDS		TP	NR	NR	NR	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
HIST CORTESE	X	0.500	1	2	8	NR	NR	11
Notify 65		1.000	0	0	0	5	NR	5
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
HAZNET	X	TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0

### EDR PROPRIETARY RECORDS

#### *EDR Proprietary Records*

Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

#### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A1**      **SAN LORENZO SATELLITE SUPPORT**  
**Target**    **16501 ASHLAND AVE**  
**Property**   **SAN LORENZO, CA 94580**

**HIST UST**    **U001598563**  
                   **N/A**

**Site 1 of 7 in cluster A**

**Actual:**      HIST UST:  
**41 ft.**            Region:            STATE  
                      Facility ID:        00000057599  
                      Facility Type:     Other  
                      Other Type:       MILITARY  
                      Total Tanks:      0001  
                      Contact Name:    Not reported  
                      Telephone:        4152784353  
                      Owner Name:      STATE MILITARY DEPARTMENT  
                      Owner Address:   2829 WATT AVE.  
                      Owner City,St,Zip: SACRAMENTO, CA 95821

                     Tank Num:         001  
                      Container Num:    1  
                      Year Installed:   Not reported  
                      Tank Capacity:    00002000  
                      Tank Used for:    PRODUCT  
                      Type of Fuel:     UNLEADED  
                      Tank Construction: Not reported  
                      Leak Detection:   None

**A2**      **ORGANIZATIONAL SHOP 35**  
**Target**    **16501 ASHLAND AVE.**  
**Property**   **SAN LORENZO, CA 94580**

**UST**    **U003776449**  
                   **N/A**

**Site 2 of 7 in cluster A**

**Actual:**      UST:  
**41 ft.**            Global ID:        857  
                      Latitude:         37.68942  
                      Longitude:       -122.119

**A3**      **CALIFORNIA ARMY NATIONAL GUARD MAIN**  
**Target**    **16501 ASHLAND AVE**  
**Property**   **SAN LORENZO, CA**

**UST**    **U003986447**  
                   **N/A**

**Site 3 of 7 in cluster A**

**Actual:**      UST:  
**41 ft.**            Facility ID:        FA0300641  
                      Program Element: 4101  
                      Facility Status:   Active  
                      Description:      UST - 1  
                      Inspection Date:   11/6/2009  
                      Closed:            Not reported  
                      Owner Name:      STATE MILITARY DEPARTMENT



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A4** CALIFORNIA MILITARY DEPT  
**Target** 16501 ASHLAND AVE  
**Property** SAN LORENZO, CA 94580

**HIST UST** U001598562  
**SWEEPS UST** N/A

**Site 4 of 7 in cluster A**

**Actual:**  
**41 ft.**

HIST UST:  
Region: STATE  
Facility ID: 00000037530  
Facility Type: Other  
Other Type: Not reported  
Total Tanks: 0000  
Contact Name: Not reported  
Telephone: 4152784353  
Owner Name: STATE MILITARY DEPARTMENT  
Owner Address: 2829 WATT AVE  
Owner City,St,Zip: SACRAMENTO, CA 95821

Tank Num: 001  
Container Num: 01  
Year Installed: Not reported  
Tank Capacity: 00002000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 002  
Container Num: 2  
Year Installed: Not reported  
Tank Capacity: 00000000  
Tank Used for: Not reported  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: None

SWEEPS UST:  
Status: Not reported  
Comp Number: 37554  
Number: Not reported  
Board Of Equalization: Not reported  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-037554-000001  
Actv Date: Not reported  
Capacity: 2000  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A5** CALIFORNIA NATL GUARD FACILITY  
**Target** 16501 ASHLAND AVE  
**Property** SAN LORENZO, CA 94580

**LUST** S102509587  
**Alameda County CS** N/A

**Site 5 of 7 in cluster A**

**Actual:**  
**41 ft.**

**LUST:**  
Region: STATE  
Global Id: T0600101009  
Latitude: 37.68931  
Longitude: -122.1179  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 1997-10-03 00:00:00  
Lead Agency: ALAMEDA COUNTY LOP  
Case Worker: Not reported  
Local Agency: ALAMEDA COUNTY LOP  
RB Case Number: 01-1095  
LOC Case Number: RO0000641  
File Location: Local Agency  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminats of Concern: Gasoline  
Site History: LUFT Con. LC 2HSCA Sa Work status correspondence goes to: Homer Lin, Office o08/11/1997

**LUST:**  
Region: 2  
Facility Id: 01-1095  
Facility Status: Case Closed  
Case Number: 2690  
How Discovered: OM  
Leak Cause: Corrosion  
Leak Source: Piping  
Date Leak Confirmed: 10/8/1992  
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

**CS:**  
Status: Case Closed  
Record Id: RO0000641  
PE: 5602

**A6** OMS #35  
**Target** 16501 ASHLAND AVE  
**Property** SAN LORENZO, CA 94580

**RCRA-SQG** 1000100277  
**FINDS** CAD981369085  
**HAZNET**  
**HIST CORTESE**

**Site 6 of 7 in cluster A**

**Actual:**  
**41 ft.**

**RCRA-SQG:**  
Date form received by agency: 01/23/1986  
Facility name: OMS #35  
Facility address: 16501 ASHLAND AVE  
SAN LORENZO, CA 94580  
EPA ID: CAD981369085

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OMS #35 (Continued)**

**1000100277**

Mailing address: ASHLAND AVE  
SAN LORENZO, CA 94580  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 16501 ASHLAND AVE  
SAN LORENZO, CA 94580  
Contact country: US  
Contact telephone: (916) 920-6505  
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: CALIFORNIA ARMY NATL GUARD  
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: Unknown  
Mixed waste (haz. and radioactive): Unknown  
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: Unknown  
Furnace exemption: Unknown  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No  
Off-site waste receiver: Commercial status unknown

Violation Status: No violations found

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OMS #35 (Continued)**

**1000100277**

**FINDS:**

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110002683016

California - Hazardous Waste Tracking System - Datamart

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.

**HAZNET:**

Gepaid: CAD981369085  
Contact: SUSAN OAKLEY/SES  
Telephone: 9163614332  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 10620 MATHER BLVD  
Mailing City,St,Zip: MATHER, CA 956550000  
Gen County: Alameda  
TSD EPA ID: CAD982444481  
TSD County: San Bernardino  
Waste Category: Other organic solids  
Disposal Method: H141  
Tons: 0.26  
Facility County: Alameda

Gepaid: CAD981369085  
Contact: SUSAN OAKLEY/SES  
Telephone: 9163614332  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 10620 MATHER BLVD  
Mailing City,St,Zip: MATHER, CA 956550000  
Gen County: Alameda  
TSD EPA ID: CAD008364432  
TSD County: Los Angeles  
Waste Category: Unspecified solvent mixture Waste  
Disposal Method: H141  
Tons: 0.02  
Facility County: Alameda

Gepaid: CAD981369085  
Contact: SUSAN OAKLEY/SES  
Telephone: 9163614332  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 10620 MATHER BLVD  
Mailing City,St,Zip: MATHER, CA 956550000  
Gen County: Alameda  
TSD EPA ID: CAD008364432  
TSD County: Los Angeles

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OMS #35 (Continued)**

**1000100277**

Waste Category: Waste oil and mixed oil  
Disposal Method: H141  
Tons: 0.14  
Facility County: Alameda

Gepaid: CAD981369085  
Contact: SUSAN OAKLEY/SES  
Telephone: 9163614332  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 10620 MATHER BLVD  
Mailing City,St,Zip: MATHER, CA 956550000  
Gen County: Alameda  
TSD EPA ID: CAD008364432  
TSD County: Los Angeles  
Waste Category: Unspecified oil-containing waste  
Disposal Method: H141  
Tons: 0.04  
Facility County: Alameda

Gepaid: CAD981369085  
Contact: SUSAN OAKLEY/SES  
Telephone: 9163614332  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 10620 MATHER BLVD  
Mailing City,St,Zip: MATHER, CA 956550000  
Gen County: Alameda  
TSD EPA ID: CAD982444481  
TSD County: San Bernardino  
Waste Category: Unspecified oil-containing waste  
Disposal Method: H129  
Tons: 0.02  
Facility County: Alameda

[Click this hyperlink](#) while viewing on your computer to access 65 additional CA\_HAZNET: record(s) in the EDR Site Report.

CORTESE:  
Region: CORTESE  
Facility County Code: 1  
Reg By: LTNKA  
Reg Id: 01-1095

**A7** **SAN LORENZO OMS #35**  
**Target** **16501 ASHLAND AVE**  
**Property** **SAN LORENZO, CA 94580**

**HIST UST** **U001598561**  
**N/A**

**Site 7 of 7 in cluster A**

**Actual:** HIST UST:  
**41 ft.** Region: STATE  
Facility ID: 00000037554  
Facility Type: Other  
Other Type: MAINT SHOP  
Total Tanks: 0001  
Contact Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SAN LORENZO OMS #35 (Continued)**

**U001598561**

Telephone: 4152784353  
Owner Name: STATE MILITARY DEPT.  
Owner Address: 2829 WATT AVE  
Owner City,St,Zip: SACRAMENTO, CA 95821

Tank Num: 001  
Container Num: 02  
Year Installed: Not reported  
Tank Capacity: 00002000  
Tank Used for: WASTE  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 002  
Container Num: 1  
Year Installed: Not reported  
Tank Capacity: 00000000  
Tank Used for: Not reported  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: None

**8**  
**North**  
**< 1/8**  
**0.010 mi.**  
**54 ft.**

**LANGENDORF**  
**16496 ASHLAND AVE**  
**SAN LORENZO, CA 94580**

**HIST UST** **U001598553**  
**SWEEPS UST** **N/A**

**Relative:**  
**Higher**

HIST UST:  
Region: STATE  
Facility ID: 00000009856  
Facility Type: Other  
Other Type: BAKERY  
Total Tanks: 0001  
Contact Name: MANUEL LIMA  
Telephone: 4152760926  
Owner Name: AMERICAN BAKERIES COMPANY - LA  
Owner Address: 1695 SOUTH 7TH STREET  
Owner City,St,Zip: SAN JOSE, CA 95112

**Actual:**  
**41 ft.**

Tank Num: 001  
Container Num: 01  
Year Installed: Not reported  
Tank Capacity: 00008000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

SWEEPS UST:  
Status: Not reported  
Comp Number: 9856  
Number: Not reported  
Board Of Equalization: Not reported  
Ref Date: Not reported  
Act Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LANGENDORF (Continued)**

**U001598553**

Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-009856-000001  
Actv Date: Not reported  
Capacity: 8000  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: LEADED  
Number Of Tanks: 1

**9**  
South  
< 1/8  
0.022 mi.  
118 ft.

**KAWAHARA NURSERY**  
**16550 ASHLAND AVE**  
**SAN LORENZO, CA 94580**

**LUST**  
**Alameda County CS**  
**SWEEPS UST**  
**HIST CORTESE**

**S102432131**  
**N/A**

**Relative:**  
**Higher**

**LUST:**

Region: STATE  
Global Id: T0600101605  
Latitude: 37.688162  
Longitude: -122.1177  
Case Type: LUST Cleanup Site  
Status: Open - Site Assessment  
Status Date: 1993-06-10 00:00:00  
Lead Agency: ALAMEDA COUNTY LOP  
Case Worker: Not reported  
Local Agency: ALAMEDA COUNTY LOP  
RB Case Number: 01-1734  
LOC Case Number: RO0000291  
File Location: Local Agency  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminats of Concern: Diesel  
Site History: LUFT Con. LC 2SCA mtbe=12 SEPT 2000

**Actual:**  
**43 ft.**

**LUST:**

Region: 2  
Facility Id: 01-1734  
Facility Status: Preliminary site assessment underway  
Case Number: 4403  
How Discovered: Tank Closure  
Leak Cause: Structure Failure  
Leak Source: Tank  
Date Leak Confirmed: 2/3/1993  
Oversight Program: LUST  
Prelim. Site Assesment Wokplan Submitted: Not reported  
Preliminary Site Assesment Began: 1/2/1965  
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

**CS:**

Status: Pollution Characterization  
Record Id: RO0000291  
PE: 5602

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KAWAHARA NURSERY (Continued)**

**S102432131**

**SWEEPS UST:**

Status: Not reported  
Comp Number: 51606  
Number: Not reported  
Board Of Equalization: 44-034771  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-051606-000001  
Actv Date: Not reported  
Capacity: 5000  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: DIESEL  
Number Of Tanks: 1

**CORTESE:**

Region: CORTESE  
Facility County Code: 1  
Reg By: LTNKA  
Reg Id: 01-1734

**10  
North  
< 1/8  
0.072 mi.  
379 ft.**

**GEAR WORKS  
16446 AHS LAND AVE.  
SAN LORENZO, CA 94580**

**UST U003776439  
SWEEPS UST N/A**

**Relative:  
Higher**

**UST:**

Global ID: 815  
Latitude: 37.69061  
Longitude: -122.11899

**Actual:  
41 ft.**

**UST:**

Facility ID: FA0302158  
Program Element: 4101  
Facility Status: Closed or Inactive  
Description: UST - 1  
Inspection Date: Not reported  
Closed: YES  
Owner Name: RICHARD TAYLOR

**SWEEPS UST:**

Status: A  
Comp Number: 8765  
Number: 2  
Board Of Equalization: Not reported  
Ref Date: 09-13-91  
Act Date: 09-13-91  
Created Date: 09-13-91  
Tank Status: A  
Owner Tank Id: 1  
Swrcb Tank Id: 01-000-008765-000001  
Actv Date: 09-13-91



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GEAR WORKS (Continued)**

**U003776439**

Capacity: 5375  
 Tank Use: M.V. FUEL  
 Stg: P  
 Content: LEADED  
 Number Of Tanks: 1

11  
 South  
 1/8-1/4  
 0.142 mi.  
 750 ft.

**NEW PERFORMANCE  
 186 LEWELLING BLVD E  
 SAN LORENZO, CA 94580**

**LUST  
 Alameda County CS  
 HIST CORTESE**

**S102434336  
 N/A**

**Relative:  
 Higher**

**LUST:**

Region: STATE  
 Global Id: T0600100961  
 Latitude: 37.686679  
 Longitude: -122.118622  
 Case Type: LUST Cleanup Site  
 Status: Open - Site Assessment  
 Status Date: 1994-06-14 00:00:00  
 Lead Agency: ALAMEDA COUNTY LOP  
 Case Worker: Not reported  
 Local Agency: ALAMEDA COUNTY LOP  
 RB Case Number: 01-1041  
 LOC Case Number: RO0000013  
 File Location: Local Agency  
 Potential Media Affect: Other Groundwater (uses other than drinking water)  
 Potential Contaminats of Concern: Gasoline  
 Site History: LUFT Con. LC 3HSCAWG mtbe=ND APRIL 2001

**Actual:  
 47 ft.**

**LUST:**

Region: 2  
 Facility Id: 01-1041  
 Facility Status: Preliminary site assessment underway  
 Case Number: 1709  
 How Discovered: Tank Closure  
 Leak Cause: Structure Failure  
 Leak Source: Tank  
 Date Leak Confirmed: 11/15/1991  
 Oversight Program: LUST  
 Prelim. Site Assesment Wokplan Submitted: 3/26/1991  
 Preliminary Site Assesment Began: 1/2/1965  
 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

**CS:**

Status: Pollution Characterization  
 Record Id: RO0000013  
 PE: 5602  
  
 Status: Preliminary site assessment underway  
 Record Id: RO0000013  
 PE: 5602  
  
 Status: Leak being confirmed

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW PERFORMANCE (Continued)**

**S102434336**

Record Id: RO0000013  
PE: 5602

CORTESE:  
Region: CORTESE  
Facility County Code: 1  
Reg By: LTNKA  
Reg Id: 01-1041

12  
SW  
1/8-1/4  
0.206 mi.  
1090 ft.

**MIKES AUTO CLINIC  
2 LEWELLING BLVD  
SAN LORENZO, CA 94580**

**RCRA-SQG 1000220401  
FINDS CAD982318529  
HAZNET**

**Relative:  
Higher**

RCRA-SQG:  
Date form received by agency: 09/01/1996  
Facility name: MIKES AUTO CLINIC  
Facility address: 2 LEWELLING BLVD  
SAN LORENZO, CA 94580

**Actual:  
47 ft.**

EPA ID: CAD982318529  
Contact: Not reported  
Contact address: Not reported  
Contact country: Not reported  
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: MIKE COLLINS  
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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MIKES AUTO CLINIC (Continued)**

**1000220401**

Handler Activities Summary:

U.S. importer of hazardous waste: Unknown  
Mixed waste (haz. and radioactive): Unknown  
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: Unknown  
Furnace exemption: Unknown  
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  
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 02/26/1988  
Facility name: MIKES AUTO CLINIC  
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

Registry ID: 110002792719

California - Hazardous Waste Tracking System - Datamart

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.

HAZNET:

Gepaid: CAD982318529  
Contact: MIKE COLLINS  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 2 LEWELLING BLVD  
Mailing City, St, Zip: SAN LORENZO, CA 945800000  
Gen County: 1  
TSD EPA ID: CAD000088252  
TSD County: Los Angeles  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Transfer Station  
Tons: .4587  
Facility County: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MIKES AUTO CLINIC (Continued)**

**1000220401**

Gepaid: CAD982318529  
Contact: MIKE COLLINS  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 2 LEWELLING BLVD  
Mailing City,St,Zip: SAN LORENZO, CA 945800000  
Gen County: 1  
TSD EPA ID: CAD980887418  
TSD County: 1  
Waste Category: Waste oil and mixed oil  
Disposal Method: Recycler  
Tons: .3544  
Facility County: 1

Gepaid: CAD982318529  
Contact: MIKE COLLINS  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 2 LEWELLING BLVD  
Mailing City,St,Zip: SAN LORENZO, CA 945800000  
Gen County: 1  
TSD EPA ID: CAT080011059  
TSD County: Los Angeles  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Recycler  
Tons: .2293  
Facility County: 1

Gepaid: CAD982318529  
Contact: MIKE COLLINS  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 2 LEWELLING BLVD  
Mailing City,St,Zip: SAN LORENZO, CA 945800000  
Gen County: 1  
TSD EPA ID: CAL000161743  
TSD County: Santa Clara  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Transfer Station  
Tons: .2000  
Facility County: 1

Gepaid: CAD982318529  
Contact: JAMES COLLINS/OWNER  
Telephone: 5103577881  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 2 LEWELLING BLVD  
Mailing City,St,Zip: SAN LORENZO, CA 945800000  
Gen County: Alameda  
TSD EPA ID: CAL000161743  
TSD County: Santa Clara  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Recycler

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MIKES AUTO CLINIC (Continued)**

**1000220401**

Tons: 0.2  
Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access  
2 additional CA\_HAZNET: record(s) in the EDR Site Report.

**B13  
SW  
1/8-1/4  
0.234 mi.  
1238 ft.**

**BEACON 3721 (FORMER)  
44 LEWELLING BLVD  
SAN LORENZO, CA 94580**

**LUST  
Alameda County CS  
SWEEPS UST  
HIST CORTESE**

**S102439561  
N/A**

**Site 1 of 4 in cluster B**

**Relative:  
Higher**

LUST:

**Actual:  
47 ft.**

Region: STATE  
Global Id: T0600101414  
Latitude: 37.6864  
Longitude: -122.122755  
Case Type: LUST Cleanup Site  
Status: Open - Remediation  
Status Date: 2007-12-04 00:00:00  
Lead Agency: ALAMEDA COUNTY LOP  
Case Worker: Not reported  
Local Agency: ALAMEDA COUNTY LOP  
RB Case Number: 01-1531  
LOC Case Number: RO0000498  
File Location: Local Agency  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminats of Concern: Gasoline  
Site History: LUFT Con. LC 3HSCAWG maximum MTBE at 97,000 in May 1998. Currently at 14,000ppb.01/19/1999

LUST:

Region: 2  
Facility Id: 01-1531  
Facility Status: Remedial action (cleanup) Underway  
Case Number: 1497  
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: 5/27/1987  
Pollution Characterization Began: 12/2/1988  
Pollution Remediation Plan Submitted: 4/1/1993  
Date Remediation Action Underway: 3/4/1998  
Date Post Remedial Action Monitoring Began: Not reported

CS:

Status: Post remedial action monitoring  
Record Id: RO0000498  
PE: 5602  
  
Status: Preliminary site assessment workplan submitted  
Record Id: RO0000498  
PE: 5602

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BEACON 3721 (FORMER) (Continued)**

**S102439561**

Status: Pollution Characterization  
Record Id: RO0000498  
PE: 5602

Status: Remediation Plan  
Record Id: RO0000498  
PE: 5602

Status: Remedial action (cleanup) Underway  
Record Id: RO0000498  
PE: 5602

Status: Preliminary site assessment underway  
Record Id: RO0000498  
PE: 5602

Status: Leak being confirmed  
Record Id: RO0000498  
PE: 5602

**SWEEPS UST:**

Status: A  
Comp Number: 11103  
Number: 1  
Board Of Equalization: 44-000165  
Ref Date: 03-05-91  
Act Date: 03-05-91  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 1  
Swrcb Tank Id: 01-000-011103-000001  
Actv Date: 03-05-91  
Capacity: 10000  
Tank Use: M.V. FUEL  
Stg: P  
Content: LEADED  
Number Of Tanks: 3

Status: A  
Comp Number: 11103  
Number: 1  
Board Of Equalization: 44-000165  
Ref Date: 03-05-91  
Act Date: 03-05-91  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 2  
Swrcb Tank Id: 01-000-011103-000002  
Actv Date: 03-05-91  
Capacity: 10000  
Tank Use: M.V. FUEL  
Stg: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Status: A  
Comp Number: 11103

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BEACON 3721 (FORMER) (Continued)**

**S102439561**

Number: 1  
Board Of Equalization: 44-000165  
Ref Date: 03-05-91  
Act Date: 03-05-91  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 3  
Swrcb Tank Id: 01-000-011103-000003  
Actv Date: 03-05-91  
Capacity: 10000  
Tank Use: M.V. FUEL  
Stg: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

**CORTESE:**

Region: CORTESE  
Facility County Code: 1  
Reg By: LTNKA  
Reg Id: 01-1531

**B14  
SW  
1/8-1/4  
0.234 mi.  
1238 ft.**

**ECONO  
44 LEWELLING BLVD  
SAN LORENZO, CA 94580**

**HIST UST U001598550  
N/A**

**Site 2 of 4 in cluster B**

**Relative:  
Higher**

**HIST UST:**

Region: STATE  
Facility ID: 00000011103  
Facility Type: Gas Station  
Other Type: Not reported  
Total Tanks: 0003  
Contact Name: Not reported  
Telephone: 4152769886  
Owner Name: KAYO OIL COMPANY  
Owner Address: 1221 E. MAIN STREET  
Owner City,St,Zip: CHATTANOOGA, TN 37408

**Actual:  
47 ft.**

Tank Num: 001  
Container Num: 1  
Year Installed: 1962  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Tank Construction: Not reported  
Leak Detection: Visual, Stock Inventor, Pressure Test

Tank Num: 002  
Container Num: 2  
Year Installed: 1962  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: PREMIUM  
Tank Construction: Not reported  
Leak Detection: Visual, Stock Inventor, Pressure Test

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ECONO (Continued)**

**U001598550**

Tank Num: 003  
Container Num: 3  
Year Installed: 1962  
Tank Capacity: 00007500  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Visual, Stock Inventor, Pressure Test

**B15**  
**SW**  
**1/8-1/4**  
**0.234 mi.**  
**1238 ft.**

**BEACON 3721**  
**44 LEWELLING BLVD.**  
**SAN LORENZO, CA 94580**  
**Site 3 of 4 in cluster B**

**UST U003776440**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**47 ft.**

UST:  
Global ID: 819  
Latitude: 37.68666  
Longitude: -122.12386

**B16**  
**SW**  
**1/8-1/4**  
**0.234 mi.**  
**1238 ft.**

**SAN LORENZO VALERO (CUPA)**  
**44 LEWELLING BLVD**  
**SAN LORENZO, CA**  
**Site 4 of 4 in cluster B**

**UST U004014053**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**47 ft.**

UST:  
Facility ID: FA0002705  
Program Element: 4103  
Facility Status: Active  
Description: UST - 3  
Inspection Date: 5/7/2008  
Closed: Not reported  
Owner Name: BEDROCK OIL INC

**17**  
**SW**  
**1/8-1/4**  
**0.241 mi.**  
**1274 ft.**

**VERN'S SERVICE OF SAN LORENZO**  
**18L LEWELLING BLVD**  
**SAN LORENZO, CA 94580**

**HIST UST U001598568**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**47 ft.**

HIST UST:  
Region: STATE  
Facility ID: 00000010780  
Facility Type: Gas Station  
Other Type: Not reported  
Total Tanks: 0003  
Contact Name: VERNON L. MAYER  
Telephone: 4154812274  
Owner Name: CARL J. GRAFFNSDATTE  
Owner Address: 1850 SAN LEANDRO BL  
Owner City,St,Zip: SAN LEANDRO, CA 94577  
  
Tank Num: 001  
Container Num: 1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VERN'S SERVICE OF SAN LORENZO (Continued)**

**U001598568**

Year Installed: Not reported  
Tank Capacity: 00004000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 002  
Container Num: 2  
Year Installed: Not reported  
Tank Capacity: 00000000  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Tank Construction: Not reported  
Leak Detection: None

Tank Num: 003  
Container Num: 3  
Year Installed: Not reported  
Tank Capacity: 00004000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: None

18  
WSW  
1/4-1/2  
0.297 mi.  
1566 ft.

**SOUTHLAND CORP**  
**100 LEWELLING BLVD**  
**SAN LORENZO, CA 94580**

**LUST**  
**Alameda County CS**  
**SWEEPS UST**  
**HIST CORTESE**

**S102437903**  
**N/A**

**Relative:**  
**Higher**

**LUST:**

Region: STATE  
Global Id: T0600101585  
Latitude: 37.6864  
Longitude: -122.12398  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 1994-03-31 00:00:00  
Lead Agency: ALAMEDA COUNTY LOP  
Case Worker: Not reported  
Local Agency: ALAMEDA COUNTY LOP  
RB Case Number: 01-1714  
LOC Case Number: RO0000974  
File Location: Local Agency  
Potential Media Affect: Not reported  
Potential Contaminants of Concern: Gasoline  
Site History: LUFT Con. LC HSCAWG Ea03/31/1994

**Actual:**  
**46 ft.**

**LUST:**

Region: 2  
Facility Id: 01-1714  
Facility Status: Case Closed  
Case Number: 4082  
How Discovered: Tank Closure  
Leak Cause: Structure Failure  
Leak Source: Tank

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTHLAND CORP (Continued)**

**S102437903**

Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Wokplan Submitted: Not reported  
Preliminary Site Assessment Began: 7/10/1993  
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

CS:

Status: Case Closed  
Record Id: RO0000974  
PE: 5602

SWEEPS UST:

Status: Not reported  
Comp Number: 12430  
Number: Not reported  
Board Of Equalization: 44-000182  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-012430-000001  
Actv Date: Not reported  
Capacity: 6000  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: LEADED  
Number Of Tanks: 3

Status: Not reported  
Comp Number: 12430  
Number: Not reported  
Board Of Equalization: 44-000182  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-012430-000002  
Actv Date: Not reported  
Capacity: 10000  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Status: Not reported  
Comp Number: 12430  
Number: Not reported  
Board Of Equalization: 44-000182  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTHLAND CORP (Continued)**

**S102437903**

Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-012430-000003  
Actv Date: Not reported  
Capacity: 10000  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: Not reported

**CORTESE:**

Region: CORTESE  
Facility County Code: 1  
Reg By: LTNKA  
Reg Id: 01-1714

**19  
ESE  
1/4-1/2  
0.302 mi.  
1593 ft.**

**MAX'S AUTO REPAIR  
508 LEWELLING BLVD E  
SAN LORENZO, CA 94580**

**LUST  
Alameda County CS  
SWEEPS UST  
HIST CORTESE**

**S103472436  
N/A**

**Relative:  
Higher**

**LUST:**

Region: STATE  
Global Id: T0600101710  
Latitude: 37.686744  
Longitude: -122.112816  
Case Type: LUST Cleanup Site  
Status: Open - Site Assessment  
Status Date: 1994-11-14 00:00:00  
Lead Agency: ALAMEDA COUNTY LOP  
Case Worker: Not reported  
Local Agency: ALAMEDA COUNTY LOP  
RB Case Number: 01-1844  
LOC Case Number: RO0000497  
File Location: Local Agency  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminants of Concern: Gasoline  
Site History: LUFT Con. LC 2HSCA mtbe=<1300 05/10/1999

**Actual:  
47 ft.**

**LUST:**

Region: 2  
Facility Id: 01-1844  
Facility Status: Preliminary site assessment underway  
Case Number: 3101  
How Discovered: Tank Closure  
Leak Cause: UNK  
Leak Source: UNK  
Date Leak Confirmed: 4/23/1994  
Oversight Program: LUST  
Prelim. Site Assessment Wokplan Submitted: Not reported  
Preliminary Site Assessment Began: 1/2/1965  
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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAX'S AUTO REPAIR (Continued)**

**S103472436**

LUST REG 3:

Region: 3  
Regional Board: Central Coast Region  
Facility County: Santa Barbara  
Status: Case Closed  
Case Number: 3101  
Local Case Num: 502271  
Case Type: A  
Substance: Gasoline  
Quantity: Not reported  
Abatement Method: Other  
Global ID: T0608300528  
Leak Source: Not reported  
Leak Cause: Not reported  
How Stopped: Not reported  
How Discovered: Not reported  
Release Date: 08/29/1996  
Discovered Date: 8/29/96  
Enter Date: / /  
Stop Date: Not reported  
Review Date: / /  
Enforce Date: 1/1/65  
Close Date: 11/11/98  
Enforcement Type: None Taken  
Responsible Party: Not reported  
RP Address: Not reported  
Contact: Not reported  
Cross Street: Not reported  
Local Agency: 42000L  
Lead Agency: Local Agency  
Staff Initials: RBA  
Confirm Leak: 8/29/96  
Workplan: 9/4/96  
Prelim Assess: Not reported  
Pollution Char: / /  
Remedial Plan: Not reported  
Remedial Action: Not reported  
Monitoring: / /  
Pilot Program: LOP  
Interim Action: Not reported  
Funding: F  
MTBE Class: \*  
Max MTBE Grnd Wtr: Not reported  
Max MTBE Soil: Not reported  
Max MTBE Data: / /  
MTBE Tested: NT  
Lat/Long: 34.3989389 / -119.5185294  
Soil Qualifier: Not reported  
Grnd Wtr Qualifier: Not reported  
Mtbe Concentratn: 0  
Mtbe Fuel: 1  
Org Name: Not reported  
Basin Plan: Not reported  
Beneficial: Not reported  
Priority: 2A4  
UST Cleanup Fund ID: Not reported  
Suspended: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAX'S AUTO REPAIR (Continued)**

**S103472436**

Operator: Not reported  
Water System: CARPINTERIA VALLEY WATER DISTRICT  
Well Name: CATLIN WELL - DESTROYED  
Distance From Well: 0  
Assigned Name: 04N/25W-28N03 S  
Summary: Not reported

**CS:**

Status: Pollution Characterization  
Record Id: RO0000497  
PE: 5602

**SWEEPS UST:**

Status: A  
Comp Number: 9894  
Number: 2  
Board Of Equalization: Not reported  
Ref Date: 09-12-91  
Act Date: 09-12-91  
Created Date: 09-12-91  
Tank Status: A  
Owner Tank Id: 1  
Swrcb Tank Id: 01-000-009894-000001  
Actv Date: 09-12-91  
Capacity: 4000  
Tank Use: M.V. FUEL  
Stg: P  
Content: LEADED  
Number Of Tanks: 3

Status: A  
Comp Number: 9894  
Number: 2  
Board Of Equalization: Not reported  
Ref Date: 09-12-91  
Act Date: 09-12-91  
Created Date: 09-12-91  
Tank Status: A  
Owner Tank Id: 2  
Swrcb Tank Id: 01-000-009894-000002  
Actv Date: 09-12-91  
Capacity: 2000  
Tank Use: M.V. FUEL  
Stg: P  
Content: LEADED  
Number Of Tanks: Not reported

Status: A  
Comp Number: 9894  
Number: 2  
Board Of Equalization: Not reported  
Ref Date: 09-12-91  
Act Date: 09-12-91  
Created Date: 09-12-91  
Tank Status: A  
Owner Tank Id: 3

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MAX'S AUTO REPAIR (Continued)**

**S103472436**

Swrcb Tank Id: 01-000-009894-000003  
Actv Date: 09-12-91  
Capacity: 2000  
Tank Use: M.V. FUEL  
Stg: P  
Content: LEADED  
Number Of Tanks: Not reported

**CORTESE:**

Region: CORTESE  
Facility County Code: 1  
Reg By: LTNKA  
Reg Id: 01-1844

**C20  
NE  
1/4-1/2  
0.328 mi.  
1734 ft.**

**PLANTS UNLIMITED  
16450 KENT AVE  
SAN LORENZO, CA 94580**

**Site 1 of 2 in cluster C**

**LUST U001598560  
HIST UST N/A  
Alameda County CS  
SWEEPS UST  
HIST CORTESE**

**Relative:  
Higher**

**LUST:**

Region: STATE  
Global Id: T0600101088  
Latitude: 37.692  
Longitude: -122.1129  
Case Type: LUST Cleanup Site  
Status: Completed - Case Closed  
Status Date: 1994-11-04 00:00:00  
Lead Agency: ALAMEDA COUNTY LOP  
Case Worker: Not reported  
Local Agency: ALAMEDA COUNTY LOP  
RB Case Number: 01-1182  
LOC Case Number: RO0001176  
File Location: Local Agency  
Potential Media Affect: Not reported  
Potential Contaminats of Concern: Diesel  
Site History: LUFT Con. LC 3HSAWG Sc11/04/1994

**Actual:  
48 ft.**

**LUST:**

Region: 2  
Facility Id: 01-1182  
Facility Status: Case Closed  
Case Number: 3761  
How Discovered: Tank Closure  
Leak Cause: Structure Failure  
Leak Source: Tank  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assesment Wokplan Submitted: 11/11/1992  
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 UST:**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLANTS UNLIMITED (Continued)**

**U001598560**

Region: STATE  
Facility ID: 00000054831  
Facility Type: Other  
Other Type: NURSERY  
Total Tanks: 0002  
Contact Name: NANCY B. GOLDSTEIN  
Telephone: 4152762384  
Owner Name: PLANTS UNLIMITED  
Owner Address: 16450 KENT AVE.  
Owner City,St,Zip: SAN LORENZO, CA 94580

Tank Num: 001  
Container Num: 1GAS  
Year Installed: Not reported  
Tank Capacity: 00000280  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 002  
Container Num: 2  
Year Installed: Not reported  
Tank Capacity: 00000000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Tank Construction: Not reported  
Leak Detection: Visual, Stock Inventor

**CS:**

Status: Case Closed  
Record Id: RO0001176  
PE: 5602

**SWEEPS UST:**

Status: Not reported  
Comp Number: 54831  
Number: Not reported  
Board Of Equalization: Not reported  
Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-054831-000001  
Actv Date: Not reported  
Capacity: 280  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: REG UNLEADED  
Number Of Tanks: 2

Status: Not reported  
Comp Number: 54831  
Number: Not reported  
Board Of Equalization: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLANTS UNLIMITED (Continued)**

**U001598560**

Ref Date: Not reported  
Act Date: Not reported  
Created Date: Not reported  
Tank Status: Not reported  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-054831-000002  
Actv Date: Not reported  
Capacity: 1  
Tank Use: M.V. FUEL  
Stg: PRODUCT  
Content: DIESEL  
Number Of Tanks: Not reported

**CORTESE:**

Region: CORTESE  
Facility County Code: 1  
Reg By: LTNKA  
Reg Id: 01-1182

**D21**  
**ESE**  
**1/4-1/2**  
**0.330 mi.**  
**1744 ft.**

**EBMUD SOUTH AREA SERVICE CENTER**  
**589 LEWELLING**  
**SAN LORENZO, CA 94580**  
**Site 1 of 2 in cluster D**

**LUST S106717128**  
**N/A**

**Relative:**  
**Higher**

**LUST:**

**Actual:**  
**47 ft.**

Region: STATE  
Global Id: T0600190987  
Latitude: 37.686671  
Longitude: -122.127468  
Case Type: LUST Cleanup Site  
Status: Open - Site Assessment  
Status Date: 2004-08-17 00:00:00  
Lead Agency: ALAMEDA COUNTY LOP  
Case Worker: Not reported  
Local Agency: ALAMEDA COUNTY LOP  
RB Case Number: Not reported  
LOC Case Number: RO0002735  
File Location: Local Agency  
Potential Media Affect: Not reported  
Potential Contaminats of Concern: Diesel  
Site History: Not reported

**D22**  
**ESE**  
**1/4-1/2**  
**0.331 mi.**  
**1747 ft.**

**EBMUD-SOUTH AREA SERVICE CNTR**  
**589 E LEWELLING BLVD**  
**SAN LORENZO, CA 94580**  
**Site 2 of 2 in cluster D**

**HAZNET U003138934**  
**EMI N/A**  
**Alameda County CS**

**Relative:**  
**Higher**

**HAZNET:**

**Actual:**  
**47 ft.**

Gepaid: CAL000082105  
Contact: SAFA TOMA  
Telephone: 5102871512  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 24055 MS 704



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EBMUD-SOUTH AREA SERVICE CNTR (Continued)**

**U003138934**

Mailing City,St,Zip: OAKLAND, CA 946231055  
Gen County: Alameda  
TSD EPA ID: Not reported  
TSD County: Sacramento  
Waste Category: Aqueous solution with less than 10% total organic residues  
Disposal Method: Transfer Station  
Tons: 0.2  
Facility County: Not reported

Gepaid: CAL000082105  
Contact: SAFA TOMA  
Telephone: 5102871512  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 24055 MS 704  
Mailing City,St,Zip: OAKLAND, CA 946231055  
Gen County: Alameda  
TSD EPA ID: Not reported  
TSD County: Los Angeles  
Waste Category: Unspecified solvent mixture Waste  
Disposal Method: Transfer Station  
Tons: 0.2  
Facility County: Not reported

Gepaid: CAL000082105  
Contact: SAFA TOMA  
Telephone: 5102871512  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 24055 MS 704  
Mailing City,St,Zip: OAKLAND, CA 946231055  
Gen County: Alameda  
TSD EPA ID: Not reported  
TSD County: Los Angeles  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Transfer Station  
Tons: 0  
Facility County: Not reported

Gepaid: CAL000082105  
Contact: SAFA TOMA  
Telephone: 5102871512  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 24055 MS 704  
Mailing City,St,Zip: OAKLAND, CA 946231055  
Gen County: Alameda  
TSD EPA ID: Not reported  
TSD County: Los Angeles  
Waste Category: Off-specification, aged, or surplus inorganics  
Disposal Method: Not reported  
Tons: 0.03  
Facility County: Not reported

Gepaid: CAL000082105  
Contact: SAFA TOMA  
Telephone: 5102871512

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EBMUD-SOUTH AREA SERVICE CNTR (Continued)**

**U003138934**

Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 24055 MS 704  
Mailing City,St,Zip: OAKLAND, CA 946231055  
Gen County: Alameda  
TSD EPA ID: Not reported  
TSD County: Los Angeles  
Waste Category: Off-specification, aged, or surplus inorganics  
Disposal Method: Disposal, Other  
Tons: 0.03  
Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access  
53 additional CA\_HAZNET: record(s) in the EDR Site Report.

**EMI:**

Year: 2002  
County Code: 1  
Air Basin: SF  
Facility ID: 13743  
Air District Name: BA  
SIC Code: 4941  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2003  
County Code: 1  
Air Basin: SF  
Facility ID: 13743  
Air District Name: BA  
SIC Code: 4941  
Air District Name: BAY AREA AQMD  
Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0  
Reactive Organic Gases Tons/Yr: 0  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2004  
County Code: 1  
Air Basin: SF  
Facility ID: 13743  
Air District Name: BA  
SIC Code: 4941  
Air District Name: BAY AREA AQMD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EBMUD-SOUTH AREA SERVICE CNTR (Continued)**

**U003138934**

Community Health Air Pollution Info System: Not reported  
Consolidated Emission Reporting Rule: Not reported  
Total Organic Hydrocarbon Gases Tons/Yr: 0.062  
Reactive Organic Gases Tons/Yr: 0.060813  
Carbon Monoxide Emissions Tons/Yr: 0.017  
NOX - Oxides of Nitrogen Tons/Yr: 0.079  
SOX - Oxides of Sulphur Tons/Yr: 0.001  
Particulate Matter Tons/Yr: 0.006  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0.005856

Year: 2005  
County Code: 1  
Air Basin: SF  
Facility ID: 13743  
Air District Name: BA  
SIC Code: 4941  
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: .056  
Reactive Organic Gases Tons/Yr: .0557928  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2006  
County Code: 1  
Air Basin: SF  
Facility ID: 13743  
Air District Name: BA  
SIC Code: 4941  
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: .056  
Reactive Organic Gases Tons/Yr: .0557928  
Carbon Monoxide Emissions Tons/Yr: 0  
NOX - Oxides of Nitrogen Tons/Yr: 0  
SOX - Oxides of Sulphur Tons/Yr: 0  
Particulate Matter Tons/Yr: 0  
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

**CS:**

Status: Leak being confirmed  
Record Id: RO0002735  
PE: 5602

Status: Preliminary site assessment underway  
Record Id: RO0002735  
PE: 5602

Status: Preliminary site assessment workplan submitted  
Record Id: RO0002735  
PE: 5602

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

<b>C23</b> <b>NE</b> <b>1/4-1/2</b> <b>0.339 mi.</b> <b>1788 ft.</b>	<b>KENT GARDENS</b> <b>16438 KENT AVENUE</b> <b>SAN LORENZO, CA</b>  <b>Site 2 of 2 in cluster C</b>	<b>SLIC</b>	<b>S106717778</b> <b>N/A</b>
--	--	-------------	---------------------------------

<b>Relative:</b> <b>Higher</b>	<b>SLIC:</b> Region: STATE <b>Facility Status: Completed - Case Closed</b> Status Date: 2007-01-11 00:00:00 Global Id: SL0600140278 Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2) Lead Agency Case Number: Not reported Latitude: 37.692228 Longitude: -122.113783 Case Type: Cleanup Program Site Case Worker: Not reported Local Agency: Not reported RB Case Number: 01S0607 File Location: Regional Board Potential Media Affected: Not reported Potential Contaminants of Concern: * Pesticides/Herbicides Site History: Not reported		
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<b>E24</b> <b>WSW</b> <b>1/4-1/2</b> <b>0.464 mi.</b> <b>2448 ft.</b>	<b>UNOCAL</b> <b>376 LEWELLING BLVD</b> <b>SAN LORENZO, CA 94580</b>  <b>Site 1 of 2 in cluster E</b>	<b>HAZNET</b> <b>LUST</b> <b>HIST UST</b> <b>Alameda County CS</b> <b>SWEEPS UST</b> <b>HIST CORTESE</b>	<b>1000167320</b> <b>N/A</b>
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<b>Relative:</b> <b>Higher</b>	<b>HAZNET:</b> Gepaid: CAD982057663 Contact: UNION OIL COMPANY OF CALIFORNI Telephone: 7144286560 Facility Addr2: Not reported Mailing Name: Not reported Mailing Address: PO BOX 25376 Mailing City,St,Zip: SANTA ANA, CA 927995376 Gen County: 1 TSD EPA ID: CAD009452657 TSD County: San Mateo Waste Category: Aqueous solution with 10% or more total organic residues Disposal Method: Recycler Tons: .0417 Facility County: 1  Gepaid: CAL000179271 Contact: HAZMAT SPECIALIST Telephone: 6027284180 Facility Addr2: Not reported Mailing Name: Not reported Mailing Address: PO BOX 52085 Mailing City,St,Zip: PHOENIX, AZ 850722085 Gen County: Alameda TSD EPA ID: CAD028409019 TSD County: Alameda Waste Category: Aqueous solution with less than 10% total organic residues Disposal Method: Treatment, Tank Tons: 0.5		
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Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL (Continued)**

**1000167320**

Facility County: 1  
  
Gepaid: CAD982057663  
Contact: UNION OIL COMPANY OF CALIFORNI  
Telephone: 7144286560  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 25376  
Mailing City,St,Zip: SANTA ANA, CA 927995376  
Gen County: 1  
TSD EPA ID: CAD980887418  
TSD County: 1  
Waste Category: Waste oil and mixed oil  
Disposal Method: Recycler  
Tons: .6672  
Facility County: 1

Gepaid: CAL000179271  
Contact: HAZMAT SPECIALIST  
Telephone: 6027284180  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: PO BOX 52085  
Mailing City,St,Zip: PHOENIX, AZ 850722085  
Gen County: Alameda  
TSD EPA ID: CAD982444481  
TSD County: San Bernardino  
Waste Category: Aqueous solution with less than 10% total organic residues  
Disposal Method: Transfer Station  
Tons: 0.16  
Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access  
-1 additional CA\_HAZNET: record(s) in the EDR Site Report.

**LUST:**

Region: STATE  
Global Id: T0600101469  
Latitude: 37.686425301  
Longitude: -122.128353  
Case Type: LUST Cleanup Site  
Status: Open - Verification Monitoring  
Status Date: 1997-02-12 00:00:00  
Lead Agency: ALAMEDA COUNTY LOP  
Case Worker: Not reported  
Local Agency: ALAMEDA COUNTY LOP  
RB Case Number: 01-1594  
LOC Case Number: RO0000344  
File Location: Local Agency  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminats of Concern: Gasoline  
Site History: LUFT Con. LC mtbe=29 NOV 2000

**LUST:**

Region: 2  
Facility Id: 01-1594

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL (Continued)**

**1000167320**

Facility Status: Pollution Characterization  
Case Number: 1746  
How Discovered: Inventory Control  
Leak Cause: Structure Failure  
Leak Source: Other Source  
Date Leak Confirmed: Not reported  
Oversight Program: LUST  
Prelim. Site Assessment Workplan Submitted: Not reported  
Preliminary Site Assessment Began: 2/20/1988  
Pollution Characterization Began: 6/19/1992  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**HIST UST:**

Region: STATE  
Facility ID: 00000030790  
Facility Type: Gas Station  
Other Type: Not reported  
Total Tanks: 0003  
Contact Name: RAY TURPEINEN  
Telephone: 4152784442  
Owner Name: UNION OIL CO.  
Owner Address: 1 CALIFORNIA ST. SUITE 2700  
Owner City,St,Zip: SAN FRANCISCO, CA 94111

Tank Num: 001  
Container Num: 5760-1-1  
Year Installed: 1966  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 002  
Container Num: 3760-2-1  
Year Installed: 1966  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: PREMIUM  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 003  
Container Num: 5760-4-1  
Year Installed: Not reported  
Tank Capacity: 00000280  
Tank Used for: WASTE  
Type of Fuel: WASTE OIL  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

**CS:**

Status: Pollution Characterization  
Record Id: RO0000344

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNOCAL (Continued)**

**1000167320**

PE: 5602  
  
Status: Remediation Plan  
Record Id: RO0000344  
PE: 5602  
  
Status: Remedial action (cleanup) Underway  
Record Id: RO0000344  
PE: 5602

**SWEEPS UST:**

Status: A  
Comp Number: 30790  
Number: 9  
Board Of Equalization: 44-000051  
Ref Date: 03-05-91  
Act Date: 03-05-91  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 5760-SU-1  
Swrcb Tank Id: 01-000-030790-000001  
Actv Date: 03-05-91  
Capacity: 12000  
Tank Use: M.V. FUEL  
Stg: P  
Content: REG UNLEADED  
Number Of Tanks: 3

Status: A  
Comp Number: 30790  
Number: 9  
Board Of Equalization: 44-000051  
Ref Date: 03-05-91  
Act Date: 03-05-91  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 5760-RU-4  
Swrcb Tank Id: 01-000-030790-000002  
Actv Date: 03-05-91  
Capacity: 12000  
Tank Use: M.V. FUEL  
Stg: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Status: A  
Comp Number: 30790  
Number: 9  
Board Of Equalization: 44-000051  
Ref Date: 03-05-91  
Act Date: 03-05-91  
Created Date: 02-29-88  
Tank Status: A  
Owner Tank Id: 5760-WO-1  
Swrcb Tank Id: 01-000-030790-000003  
Actv Date: 03-05-91  
Capacity: 520

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**UNOCAL (Continued)**

**1000167320**

Tank Use: OIL  
 Stg: W  
 Content: WASTE OIL  
 Number Of Tanks: Not reported

CORTESE:  
 Region: CORTESE  
 Facility County Code: 1  
 Reg By: LTNKA  
 Reg Id: 01-1594

**E25**  
**WSW**  
**1/4-1/2**  
**0.476 mi.**  
**2512 ft.**

**DON DEL COMPANY**  
**15636 40 USHER**  
**SAN LEANDRO, CA**  
**Site 2 of 2 in cluster E**

**HIST CORTESE S101306781**  
**N/A**

**Relative:**  
**Higher**  
  
**Actual:**  
**43 ft.**

CORTESE:  
 Region: CORTESE  
 Facility County Code: 1  
 Reg By: LTNKA  
 Reg Id: 01-0502

**26**  
**NE**  
**1/4-1/2**  
**0.477 mi.**  
**2521 ft.**

**CHRIS' RICHFIELD SERVICE**  
**16446 14TH**  
**SAN LEANDRO, CA 94578**

**HIST CORTESE S102427865**  
**N/A**

**Relative:**  
**Higher**  
  
**Actual:**  
**47 ft.**

CORTESE:  
 Region: CORTESE  
 Facility County Code: 1  
 Reg By: LTNKA  
 Reg Id: 01-1736

**27**  
**North**  
**1/4-1/2**  
**0.478 mi.**  
**2526 ft.**

**OKADA PROPERTY**  
**16109 ASHLAND AVE**  
**SAN LORENZO, CA 94580**

**LUST S102434618**  
**Alameda County CS**  
**HIST CORTESE N/A**

**Relative:**  
**Lower**  
  
**Actual:**  
**34 ft.**

LUST:  
 Region: STATE  
 Global Id: T0600101004  
 Latitude: 37.69641  
 Longitude: -122.1179  
 Case Type: LUST Cleanup Site  
 Status: Completed - Case Closed  
 Status Date: 1994-12-28 00:00:00  
 Lead Agency: ALAMEDA COUNTY LOP  
 Case Worker: Not reported  
 Local Agency: ALAMEDA COUNTY LOP  
 RB Case Number: 01-1088  
 LOC Case Number: RO0000536



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OKADA PROPERTY (Continued)**

**S102434618**

File Location: Local Agency  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminats of Concern: Waste Oil / Motor / Hydraulic / Lubricating  
Site History: LUFT Con. LC 3HSCAW We12/28/1994

**LUST:**

Region: 2  
Facility Id: 01-1088  
Facility Status: Case Closed  
Case Number: 3815  
How Discovered: Tank Closure  
Leak Cause: Structure Failure  
Leak Source: Tank  
Date Leak Confirmed: 3/23/1992  
Oversight Program: LUST  
Prelim. Site Assesment Wokplan Submitted: Not reported  
Preliminary Site Assesment Began: 8/31/1989  
Pollution Characterization Began: Not reported  
Pollution Remediation Plan Submitted: Not reported  
Date Remediation Action Underway: Not reported  
Date Post Remedial Action Monitoring Began: Not reported

**CS:**

Status: Case Closed  
Record Id: RO0000536  
PE: 5602

**CORTESE:**

Region: CORTESE  
Facility County Code: 1  
Reg By: LTNKA  
Reg Id: 01-1088

**28**  
**NNE**  
**1/4-1/2**  
**0.493 mi.**  
**2601 ft.**

**JACK HOLLAND**  
**16301 14TH ST E**  
**SAN LEANDRO, CA 94578**

**HAZNET** **U001598514**  
**LUST** **N/A**  
**HIST UST**  
**Alameda County CS**  
**SWEEPS UST**  
**HIST CORTESE**

**Relative:**  
**Lower**

**HAZNET:**

**Actual:**  
**40 ft.**

Gepaid: CAC001085240  
Contact: JACK HOLLAND SR.  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1498 HAMRICK LN  
Mailing City,St,Zip: HAYWARD, CA 945440000  
Gen County: 1  
TSD EPA ID: NVT330010000  
TSD County: 99  
Waste Category: Other organic solids  
Disposal Method: Disposal, Land Fill  
Tons: 15  
Facility County: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JACK HOLLAND (Continued)**

**U001598514**

Gepaid: CAC001085240  
Contact: JACK HOLLAND SR.  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1498 HAMRICK LN  
Mailing City,St,Zip: HAYWARD, CA 945440000  
Gen County: 1  
TSD EPA ID: CAD009466392  
TSD County: 7  
Waste Category: Other empty containers 30 gallons or more  
Disposal Method: Recycler  
Tons: 24.7425  
Facility County: 1

Gepaid: CAC001085240  
Contact: JACK HOLLAND SR.  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1498 HAMRICK LN  
Mailing City,St,Zip: HAYWARD, CA 945440000  
Gen County: 1  
TSD EPA ID: CAD059494310  
TSD County: Santa Clara  
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
Disposal Method: Disposal, Other  
Tons: 2.7105  
Facility County: 1

Gepaid: CAC001085240  
Contact: JACK HOLLAND SR.  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1498 HAMRICK LN  
Mailing City,St,Zip: HAYWARD, CA 945440000  
Gen County: 1  
TSD EPA ID: CAD059494310  
TSD County: Santa Clara  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Disposal, Other  
Tons: 1.8765  
Facility County: 1

Gepaid: CAC001085240  
Contact: JACK HOLLAND SR.  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1498 HAMRICK LN  
Mailing City,St,Zip: HAYWARD, CA 945440000  
Gen County: 1  
TSD EPA ID: CAD059494310  
TSD County: Santa Clara  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JACK HOLLAND (Continued)**

**U001598514**

Tons: 9.3408  
Facility County: 1

[Click this hyperlink](#) while viewing on your computer to access  
4 additional CA\_HAZNET: record(s) in the EDR Site Report.

LUST:

Region: STATE  
Global Id: T0600100709  
Latitude: 37.695608301  
Longitude: -122.116211  
Case Type: LUST Cleanup Site  
Status: Open - Site Assessment  
Status Date: 1996-04-01 00:00:00  
Lead Agency: ALAMEDA COUNTY LOP  
Case Worker: Not reported  
Local Agency: ALAMEDA COUNTY LOP  
RB Case Number: 01-0771  
LOC Case Number: RO0000212  
File Location: Local Agency  
Potential Media Affect: Other Groundwater (uses other than drinking water)  
Potential Contaminats of Concern: Diesel  
Site History: LUFT Con. LC 2 MTBE = ND09/07/1999

LUST:

Region: 2  
Facility Id: 01-0771  
Facility Status: Preliminary site assessment underway  
Case Number: 2423  
How Discovered: Tank Closure  
Leak Cause: Structure Failure  
Leak Source: Tank  
Date Leak Confirmed: 6/1/1993  
Oversight Program: LUST  
Prelim. Site Assesment Wokplan Submitted: Not reported  
Preliminary Site Assesment Began: 1/2/1965  
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 UST:

Region: STATE  
Facility ID: 00000001710  
Facility Type: Other  
Other Type: OIL JOBBER  
Total Tanks: 0008  
Contact Name: WAYNE LOYD  
Telephone: 4154812288  
Owner Name: JACK HOLLAND SR OIL CO.  
Owner Address: 16301 EAST 14TH STREET  
Owner City,St,Zip: SAN LEANDRO, CA 94578  
  
Tank Num: 001  
Container Num: 1  
Year Installed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JACK HOLLAND (Continued)**

**U001598514**

Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 002  
Container Num: 8  
Year Installed: Not reported  
Tank Capacity: 00012000  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 003  
Container Num: 7  
Year Installed: Not reported  
Tank Capacity: 00005000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 004  
Container Num: 6  
Year Installed: Not reported  
Tank Capacity: 00006000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 005  
Container Num: 5  
Year Installed: Not reported  
Tank Capacity: 00005000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 006  
Container Num: 4  
Year Installed: Not reported  
Tank Capacity: 00005000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 007  
Container Num: 3  
Year Installed: Not reported  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JACK HOLLAND (Continued)**

**U001598514**

Tank Construction: Not reported  
Leak Detection: Stock Inventor

Tank Num: 008  
Container Num: 2  
Year Installed: Not reported  
Tank Capacity: 00010000  
Tank Used for: PRODUCT  
Type of Fuel: PREMIUM  
Tank Construction: Not reported  
Leak Detection: Stock Inventor

CS:

Status: Pollution Characterization  
Record Id: RO0000212  
PE: 5602

Status: Preliminary site assessment workplan submitted  
Record Id: RO0000212  
PE: 5602

SWEEPS UST:

Status: A  
Comp Number: 200  
Number: 1  
Board Of Equalization: Not reported  
Ref Date: 03-14-91  
Act Date: 09-17-93  
Created Date: 03-14-91  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-000200-000001  
Actv Date: 03-14-91  
Capacity: 10000  
Tank Use: M.V. FUEL  
Stg: P  
Content: LEADED  
Number Of Tanks: 8

Status: A  
Comp Number: 200  
Number: 1  
Board Of Equalization: Not reported  
Ref Date: 03-14-91  
Act Date: 09-17-93  
Created Date: 03-14-91  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-000200-000002  
Actv Date: 03-14-91  
Capacity: 10000  
Tank Use: M.V. FUEL  
Stg: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JACK HOLLAND (Continued)**

**U001598514**

Status: A  
Comp Number: 200  
Number: 1  
Board Of Equalization: Not reported  
Ref Date: 03-14-91  
Act Date: 09-17-93  
Created Date: 03-14-91  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-000200-000003  
Actv Date: 03-14-91  
Capacity: 10000  
Tank Use: M.V. FUEL  
Stg: P  
Content: REG UNLEADED  
Number Of Tanks: Not reported

Status: A  
Comp Number: 200  
Number: 1  
Board Of Equalization: Not reported  
Ref Date: 03-14-91  
Act Date: 09-17-93  
Created Date: 03-14-91  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-000200-000004  
Actv Date: 03-14-91  
Capacity: 5000  
Tank Use: HAZARDOUS  
Stg: P  
Content: KEROSENE  
Number Of Tanks: Not reported

Status: A  
Comp Number: 200  
Number: 1  
Board Of Equalization: Not reported  
Ref Date: 03-14-91  
Act Date: 09-17-93  
Created Date: 03-14-91  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-000200-000005  
Actv Date: 03-14-91  
Capacity: 6000  
Tank Use: M.V. FUEL  
Stg: P  
Content: DIESEL  
Number Of Tanks: Not reported

Status: A  
Comp Number: 200  
Number: 1  
Board Of Equalization: Not reported  
Ref Date: 03-14-91  
Act Date: 09-17-93

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**JACK HOLLAND (Continued)**

**U001598514**

Created Date: 03-14-91  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-000200-000006  
Actv Date: 03-14-91  
Capacity: 5000  
Tank Use: HAZARDOUS  
Stg: P  
Content: KEROSENE  
Number Of Tanks: Not reported

Status: A  
Comp Number: 200  
Number: 1  
Board Of Equalization: Not reported  
Ref Date: 03-14-91  
Act Date: 09-17-93  
Created Date: 03-14-91  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-000200-000007  
Actv Date: 03-14-91  
Capacity: 5000  
Tank Use: M.V. FUEL  
Stg: P  
Content: DIESEL  
Number Of Tanks: Not reported

Status: A  
Comp Number: 200  
Number: 1  
Board Of Equalization: Not reported  
Ref Date: 03-14-91  
Act Date: 09-17-93  
Created Date: 03-14-91  
Tank Status: A  
Owner Tank Id: Not reported  
Swrcb Tank Id: 01-000-000200-000008  
Actv Date: 03-14-91  
Capacity: 12000  
Tank Use: HAZARDOUS  
Stg: P  
Content: KEROSENE  
Number Of Tanks: Not reported

**CORTESE:**

Region: CORTESE  
Facility County Code: 1  
Reg By: LTNKA  
Reg Id: 01-0771

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

F29  
ENE  
1/4-1/2  
0.498 mi.  
2632 ft.

**EAST 14TH STREET AUTOWRECKERS**  
16552 EAST 14TH ST  
ASHLAND, CA 94578

**ENVIROSTOR** S102008278  
N/A

Site 1 of 3 in cluster F

Relative:  
Higher

Actual:  
50 ft.

ENVIROSTOR:

Site Type: Evaluation  
Site Type Detailed: Evaluation  
Acres: Not reported  
NPL: NO  
Regulatory Agencies: NONE SPECIFIED  
Lead Agency: NONE SPECIFIED  
Program Manager: Not reported  
Supervisor: Karen Toth  
Division Branch: Berkeley  
Facility ID: 01990010  
Site Code: Not reported  
Assembly: 18  
Senate: 10  
Special Program: Not reported  
Status: No Further Action  
Status Date: 1995-05-12 00:00:00  
Restricted Use: NO  
Funding: Not reported  
Latitude: 37.6933088623679  
Longitude: -122.110791020994  
Alias Name: 01990010  
Alias Type: Envirostor ID Number

APN: NONE SPECIFIED

APN Description: Not reported

Comments: Completed Site Screening. This site has been an auto-wrecker facility for almost 50 years. Soil and groundwater are suspected to be contaminated. No sampling has been conducted yet. Soil removal/disturbance with accompanying visible dust generation were observed. Auto salvage permit from Alameda County expired in 1989 and has not been renewed since then. Oily sheen was noted from some surface water run-off from the property.

Completed Info:

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 1993-06-18 00:00:00

Confirmed: NONE SPECIFIED  
Confirmed Description: Not reported  
Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Media Affected: 10199, 20019, 30013  
Media Affected Desc: Not reported  
Media Affected Desc: Not reported  
Media Affected Desc: Not reported

Management:

Management Required: NONE SPECIFIED  
Management Required Desc: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EAST 14TH STREET AUTOWRECKERS (Continued)**

**S102008278**

Potential: UE  
Potential Description: 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  
PastUse: JUNKYARD

**F30  
ENE  
1/4-1/2  
0.498 mi.  
2632 ft.**

**E. 14TH STREET AUTO WRECKERS  
16552 E. 14TH STREET  
SAN LEANDRO, CA 94578**

**UST 1003877940  
CERC-NFRAP CAD983566472**

**Site 2 of 3 in cluster F**

**Relative:  
Higher**

UST:  
Facility ID: FA0303708  
Program Element: 4103  
Facility Status: Active  
Description: UST - 3  
Inspection Date: 5/24/2007  
Closed: Not reported  
Owner Name: GURJINDER SOHAL

**Actual:  
50 ft.**

CERC-NFRAP:  
Site ID: 0900008  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: NFRAP

CERCLIS-NFRAP Site Contact Name(s):  
Contact Name: Matt Mitguard  
Contact Tel: (415) 972-3096  
Contact Title: Site Assessment Manager (SAM)

Contact Name: Nuria Muniz  
Contact Tel: (415) 972-3811  
Contact Title: Site Assessment Manager (SAM)

Site Description: Not reported

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY  
Date Started: Not reported  
Date Completed: 06/05/1990  
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
Date Started: Not reported  
Date Completed: 01/13/1992  
Priority Level: High

Action: SITE INSPECTION  
Date Started: Not reported  
Date Completed: 03/16/1992  
Priority Level: NFRAP (No Further Remedial Action Planned)

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**E. 14TH STREET AUTO WRECKERS (Continued)**

**1003877940**

Action: ARCHIVE SITE  
 Date Started: Not reported  
 Date Completed: 03/16/1992  
 Priority Level: Not reported

**F31**  
**ENE**  
**1/4-1/2**  
**0.498 mi.**  
**2632 ft.**

**EAST 14TH STREET AUTO WRECKERS**  
**16552 EAST 14TH STREET**  
**ASHLAND, CA 94541**

**ENVIROSTOR S102008261**  
**N/A**

**Site 3 of 3 in cluster F**

**Relative:**  
**Higher**

ENVIROSTOR:

Site Type: Evaluation  
 Site Type Detailed: Evaluation  
 Acres: 0  
 NPL: NO  
 Regulatory Agencies: NONE SPECIFIED  
 Lead Agency: NONE SPECIFIED  
 Program Manager: Not reported  
 Supervisor: Referred - Not Assigned  
 Division Branch: Berkeley  
 Facility ID: 01750016  
 Site Code: Not reported  
 Assembly: 18  
 Senate: 10  
 Special Program: Not reported  
 Status: Refer: Other Agency  
 Status Date: 1996-01-05 00:00:00  
 Restricted Use: NO  
 Funding: Not reported  
 Latitude: 37.684722222222  
 Longitude: -122.113888888889  
 Alias Name: 01750016  
 Alias Type: Envirostor ID Number  
 Alias Name: CAD983566472  
 Alias Type: EPA Identification Number

**Actual:**  
**50 ft.**

APN: NONE SPECIFIED  
 APN Description: Not reported  
 Comments: Not reported

Completed Info:

Completed Area Name: Not reported  
 Completed Sub Area Name: Not reported  
 Completed Document Type: Not reported  
 Completed Date: Not reported

Confirmed: NONE SPECIFIED  
 Confirmed Description: Not reported  
 Future Area Name: Not reported  
 Future Sub Area Name: Not reported  
 Future Document Type: Not reported  
 Future Due Date: Not reported  
 Media Affected: NONE SPECIFIED  
 Media Affected Desc: Not reported

Management:

Management Required: NONE SPECIFIED  
 Management Required Desc: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EAST 14TH STREET AUTO WRECKERS (Continued)**

**S102008261**

Potential: NONE SPECIFIED  
Potential Description: 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  
PastUse: NONE SPECIFIED

**32**  
**WNW**  
**1/2-1**  
**0.539 mi.**  
**2844 ft.**

**FOUR STAR LUMBER CO**  
**15444 HESPERIAN BOULEVARD**  
**SAN LEANDRO, CA 92584**

**Notify 65** **S100179438**  
**N/A**

**Relative:**  
**Higher**

Notify 65:  
Date Reported: Not reported  
Staff Initials: Not reported  
Board File Number: Not reported  
Facility Type: Not reported  
Discharge Date: Not reported  
Incident Description: 92584

**Actual:**  
**41 ft.**

**33**  
**North**  
**1/2-1**  
**0.722 mi.**  
**3812 ft.**

**UNOCAL SERVICE STATION #6277**  
**15803 EAST 14TH STREET**  
**SAN LEANDRO, CA 92584**

**Notify 65** **S100178990**  
**N/A**

**Relative:**  
**Lower**

Notify 65:  
Date Reported: Not reported  
Staff Initials: Not reported  
Board File Number: Not reported  
Facility Type: Not reported  
Discharge Date: Not reported  
Incident Description: 92584

**Actual:**  
**27 ft.**

**34**  
**WSW**  
**1/2-1**  
**0.823 mi.**  
**4347 ft.**

**CALTRANS MAINTENANCE YARD**  
**600 LEWELLING BOULEVARD**  
**SAN LEANDRO, CA 92584**

**Notify 65** **S100178681**  
**N/A**

**Relative:**  
**Lower**

Notify 65:  
Date Reported: Not reported  
Staff Initials: Not reported  
Board File Number: Not reported  
Facility Type: Not reported  
Discharge Date: Not reported  
Incident Description: 92584

**Actual:**  
**32 ft.**

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**35**  
**NNW**  
**1/2-1**  
**0.985 mi.**  
**5201 ft.**

**USA PETROLEUM**  
**15120 HEPERIAN BOULEVARD**  
**SAN LEANDRO, CA 92584**

**Notify 65**    **U000056654**  
                          **N/A**

**Relative:**  
**Lower**

Notify 65:  
 Date Reported:    Not reported  
 Staff Initials:    Not reported  
 Board File Number: Not reported  
 Facility Type:     Not reported  
 Discharge Date:   Not reported  
 Incident Description: 92584

**Actual:**  
**34 ft.**

**36**  
**SSE**  
**1/2-1**  
**0.985 mi.**  
**5202 ft.**

**NONE**  
**19984 MEEKLAND**  
**HAYWARD, CA 92508**

**Notify 65**    **S100179370**  
                          **N/A**

**Relative:**  
**Higher**

Notify 65:  
 Date Reported:    Not reported  
 Staff Initials:    Not reported  
 Board File Number: Not reported  
 Facility Type:     Not reported  
 Discharge Date:   Not reported  
 Incident Description: 92508

**Actual:**  
**59 ft.**

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HAYWARD	1003879390	EDEN ROCK PROPS	3146, 3167 & 3191 CORPORATE PL	94541	CERC-NFRAP
HAYWARD	1003879275	ARDEN ROAD PROPERTY	ARDEN RD	94541	CERC-NFRAP
HAYWARD	1003878524	BAY CITIES RUBBISH DSPL CO	FOOT OF W WINTON AVE	94541	CERC-NFRAP
HAYWARD	S105024045	LONG, GARY A. & VIRGINIA	17754 MEEKLAND 25	94541	HIST CORTESE
SAN LEANDRO	1003878920	PG&E GAS PLANT SAN LEANDRO	ALVARDO & ST JOHNS STS	94578	CERC-NFRAP
SAN LORENZO	S106934072	VERN'S SERVICE OF SAN LORENZO	18 E LEWELLING L	94580	SWEEPS UST

# 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: 02/02/2009	Source: EPA
Date Data Arrived at EDR: 02/12/2009	Telephone: N/A
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 04/20/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/27/2009
	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: 04/23/2009	Source: EPA
Date Data Arrived at EDR: 04/28/2009	Telephone: N/A
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 04/20/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/27/2009
	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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 05/17/2009
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/17/2009
	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: 02/02/2009	Source: EPA
Date Data Arrived at EDR: 02/12/2009	Telephone: N/A
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 04/20/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/27/2009
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/09/2009	Source: EPA
Date Data Arrived at EDR: 01/30/2009	Telephone: 703-412-9810
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 07/14/2009
Number of Days to Update: 101	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Quarterly

## ***Federal CERCLIS NFRAP site List***

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This 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 a potential NPL site.

Date of Government Version: 12/03/2007	Source: EPA
Date Data Arrived at EDR: 12/06/2007	Telephone: 703-412-9810
Date Made Active in Reports: 02/20/2008	Last EDR Contact: 06/15/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 09/14/2009
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2009	Source: EPA
Date Data Arrived at EDR: 04/02/2009	Telephone: 800-424-9346
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/01/2009
Number of Days to Update: 39	Next Scheduled EDR Contact: 08/31/2009
	Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Transporters, 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/12/2008  
Date Data Arrived at EDR: 11/18/2008  
Date Made Active in Reports: 03/16/2009  
Number of Days to Update: 118

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 04/23/2009  
Next Scheduled EDR Contact: 07/20/2009  
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: 11/12/2008  
Date Data Arrived at EDR: 11/18/2008  
Date Made Active in Reports: 03/16/2009  
Number of Days to Update: 118

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 04/23/2009  
Next Scheduled EDR Contact: 07/20/2009  
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: 11/12/2008  
Date Data Arrived at EDR: 11/18/2008  
Date Made Active in Reports: 03/16/2009  
Number of Days to Update: 118

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 04/23/2009  
Next Scheduled EDR Contact: 07/20/2009  
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: 11/12/2008  
Date Data Arrived at EDR: 11/18/2008  
Date Made Active in Reports: 03/16/2009  
Number of Days to Update: 118

Source: Environmental Protection Agency  
Telephone: (415) 495-8895  
Last EDR Contact: 04/23/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

## ***Federal institutional controls / engineering controls registries***

### **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: 03/31/2009  
Date Data Arrived at EDR: 04/22/2009  
Date Made Active in Reports: 05/05/2009  
Number of Days to Update: 13

Source: Environmental Protection Agency  
Telephone: 703-603-0695  
Last EDR Contact: 06/29/2009  
Next Scheduled EDR Contact: 09/28/2009  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 03/31/2009  
Date Data Arrived at EDR: 04/22/2009  
Date Made Active in Reports: 05/05/2009  
Number of Days to Update: 13

Source: Environmental Protection Agency  
Telephone: 703-603-0695  
Last EDR Contact: 06/29/2009  
Next Scheduled EDR Contact: 09/28/2009  
Data Release Frequency: Varies

## ***Federal ERNS list***

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2008  
Date Data Arrived at EDR: 01/30/2009  
Date Made Active in Reports: 05/19/2009  
Number of Days to Update: 109

Source: National Response Center, United States Coast Guard  
Telephone: 202-267-2180  
Last EDR Contact: 05/12/2009  
Next Scheduled EDR Contact: 07/20/2009  
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: 05/27/2009  
Date Data Arrived at EDR: 05/27/2009  
Date Made Active in Reports: 06/15/2009  
Number of Days to Update: 19

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 05/27/2009  
Next Scheduled EDR Contact: 08/24/2009  
Data Release Frequency: Quarterly

## ***State- and tribal - equivalent CERCLIS***

### ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 05/27/2009  
Date Data Arrived at EDR: 05/27/2009  
Date Made Active in Reports: 06/15/2009  
Number of Days to Update: 19

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 05/27/2009  
Next Scheduled EDR Contact: 08/24/2009  
Data Release Frequency: Quarterly

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

### SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/09/2009  
Date Data Arrived at EDR: 03/10/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 29

Source: Integrated Waste Management Board  
Telephone: 916-341-6320  
Last EDR Contact: 03/10/2009  
Next Scheduled EDR Contact: 06/08/2009  
Data Release Frequency: Quarterly

## **State and tribal leaking storage tank lists**

### 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: 07/13/2009  
Next Scheduled EDR Contact: 10/12/2009  
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: 05/04/2009  
Next Scheduled EDR Contact: 08/03/2009  
Data Release Frequency: Varies

### 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: 06/01/2009  
Next Scheduled EDR Contact: 08/31/2009  
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: 05/18/2009  
Next Scheduled EDR Contact: 08/17/2009  
Data Release Frequency: No Update Planned

### LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005  
Date Data Arrived at EDR: 06/07/2005  
Date Made Active in Reports: 06/29/2005  
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)  
Telephone: 760-241-7365  
Last EDR Contact: 06/29/2009  
Next Scheduled EDR Contact: 09/28/2009  
Data Release Frequency: No Update Planned

### LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/08/2009  
Date Data Arrived at EDR: 04/08/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 33

Source: State Water Resources Control Board  
Telephone: see region list  
Last EDR Contact: 07/09/2009  
Next Scheduled EDR Contact: 10/05/2009  
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: 05/18/2009  
Next Scheduled EDR Contact: 08/17/2009  
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: 07/06/2009  
Next Scheduled EDR Contact: 10/05/2009  
Data Release Frequency: Quarterly

## LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003  
Date Data Arrived at EDR: 05/19/2003  
Date Made Active in Reports: 06/02/2003  
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)  
Telephone: 805-542-4786  
Last EDR Contact: 05/11/2009  
Next Scheduled EDR Contact: 08/10/2009  
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: 06/22/2009  
Next Scheduled EDR Contact: 09/21/2009  
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: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Quarterly

## SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/08/2009  
Date Data Arrived at EDR: 04/08/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 33

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 07/09/2009  
Next Scheduled EDR Contact: 10/05/2009  
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: 05/18/2009  
Next Scheduled EDR Contact: 08/17/2008  
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: 07/06/2009  
Next Scheduled EDR Contact: 10/05/2009  
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: 05/11/2009  
Next Scheduled EDR Contact: 08/10/2009  
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: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
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: 06/28/2009  
Next Scheduled EDR Contact: 09/28/2009  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/28/2009  
Next Scheduled EDR Contact: 09/28/2009  
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: 06/01/2009  
Next Scheduled EDR Contact: 08/31/2009  
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: 05/17/2009  
Next Scheduled EDR Contact: 08/17/2009  
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: 06/28/2009  
Next Scheduled EDR Contact: 09/28/2009  
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: 05/26/2009  
Next Scheduled EDR Contact: 08/24/2009  
Data Release Frequency: Annually

## 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: 12/15/2008  
Date Data Arrived at EDR: 12/16/2008  
Date Made Active in Reports: 03/16/2009  
Number of Days to Update: 90

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 05/17/2009  
Next Scheduled EDR Contact: 08/17/2009  
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: 05/20/2009  
Date Data Arrived at EDR: 05/20/2009  
Date Made Active in Reports: 05/29/2009  
Number of Days to Update: 9

Source: EPA Region 6  
Telephone: 214-665-6597  
Last EDR Contact: 05/17/2009  
Next Scheduled EDR Contact: 08/17/2009  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/04/2009	Source: EPA Region 10
Date Data Arrived at EDR: 06/05/2009	Telephone: 206-553-2857
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 12	Next Scheduled EDR Contact: 08/17/2009
	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: 03/24/2009	Source: EPA Region 7
Date Data Arrived at EDR: 05/20/2009	Telephone: 913-551-7003
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 05/20/2009
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/17/2009
	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: 06/01/2009	Source: EPA Region 8
Date Data Arrived at EDR: 06/03/2009	Telephone: 303-312-6271
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

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: 02/19/2009	Source: EPA Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 08/17/2009
	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: 02/24/2009	Source: EPA Region 4
Date Data Arrived at EDR: 03/03/2009	Telephone: 404-562-8677
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Semi-Annually

## **State and tribal registered storage tank lists**

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 04/08/2009	Source: SWRCB
Date Data Arrived at EDR: 04/08/2009	Telephone: 916-480-1028
Date Made Active in Reports: 05/14/2009	Last EDR Contact: 07/09/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/05/2009
	Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities  
Registered Aboveground Storage Tanks.

Date of Government Version: 11/01/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 02/10/2009	Telephone: 916-341-5712
Date Made Active in Reports: 04/14/2009	Last EDR Contact: 05/29/2009
Number of Days to Update: 63	Next Scheduled EDR Contact: 07/27/2009
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 02/19/2009	Source: EPA, Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 08/17/2009
	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: 02/24/2009	Source: EPA Region 4
Date Data Arrived at EDR: 03/03/2009	Telephone: 404-562-9424
Date Made Active in Reports: 05/05/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Semi-Annually

## 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: 09/08/2008	Source: EPA Region 5
Date Data Arrived at EDR: 09/19/2008	Telephone: 312-886-6136
Date Made Active in Reports: 10/16/2008	Last EDR Contact: 05/17/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 08/17/2009
	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: 05/20/2009	Source: EPA Region 6
Date Data Arrived at EDR: 05/20/2009	Telephone: 214-665-7591
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 08/17/2009
	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: 04/01/2008	Source: EPA Region 7
Date Data Arrived at EDR: 12/30/2008	Telephone: 913-551-7003
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/22/2009
Number of Days to Update: 76	Next Scheduled EDR Contact: 08/17/2009
	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: 06/01/2009	Source: EPA Region 8
Date Data Arrived at EDR: 06/03/2009	Telephone: 303-312-6137
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 06/04/2009	Source: EPA Region 10
Date Data Arrived at EDR: 06/05/2009	Telephone: 206-553-2857
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 12	Next Scheduled EDR Contact: 08/17/2009
	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: 12/15/2008	Source: EPA Region 9
Date Data Arrived at EDR: 12/16/2008	Telephone: 415-972-3368
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 05/17/2009
Number of Days to Update: 90	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Quarterly

### ***State and tribal voluntary cleanup sites***

#### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

#### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 04/22/2008	Telephone: 617-918-1102
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	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: 05/27/2009	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/27/2009	Telephone: 916-323-3400
Date Made Active in Reports: 06/15/2009	Last EDR Contact: 05/27/2009
Number of Days to Update: 19	Next Scheduled EDR Contact: 08/24/2009
	Data Release Frequency: Quarterly

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/14/2008	Telephone: 202-566-2777
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 07/14/2009
Number of Days to Update: 39	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Semi-Annually

## **Local Lists of Landfill / Solid Waste Disposal Sites**

### **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: 03/25/2008	Source: EPA, Region 9
Date Data Arrived at EDR: 04/17/2008	Telephone: 415-972-3336
Date Made Active in Reports: 05/15/2008	Last EDR Contact: 07/13/2009
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/21/2009
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### **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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 06/01/2009
Number of Days to Update: 30	Next Scheduled EDR Contact: 08/31/2009
	Data Release Frequency: Quarterly

### **SWRCY: Recycler Database**

A listing of recycling facilities in California.

Date of Government Version: 04/07/2009	Source: Department of Conservation
Date Data Arrived at EDR: 04/08/2009	Telephone: 916-323-3836
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 07/09/2009
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/05/2009
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**HAULERS: Registered Waste Tire Haulers Listing**  
A listing of registered waste tire haulers.

Date of Government Version: 05/28/2009	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 05/29/2009	Telephone: 916-341-6422
Date Made Active in Reports: 06/15/2009	Last EDR Contact: 06/08/2009
Number of Days to Update: 17	Next Scheduled EDR Contact: 09/07/2009
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 05/26/2009
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/24/2009
	Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

**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: 07/01/2008	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 10/31/2008	Telephone: 202-307-1000
Date Made Active in Reports: 12/23/2008	Last EDR Contact: 03/26/2009
Number of Days to Update: 53	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: Quarterly

**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	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	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: 05/27/2009	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/27/2009	Telephone: 916-323-3400
Date Made Active in Reports: 06/15/2009	Last EDR Contact: 05/27/2009
Number of Days to Update: 19	Next Scheduled EDR Contact: 08/24/2009
	Data Release Frequency: Quarterly

**TOXIC PITS: Toxic Pits Cleanup Act Sites**

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

## 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: 09/30/2008  
Date Data Arrived at EDR: 10/06/2008  
Date Made Active in Reports: 10/13/2008  
Number of Days to Update: 7

Source: Department of Toxic Substances Control  
Telephone: 916-255-6504  
Last EDR Contact: 05/22/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

## Local Lists of Registered Storage Tanks

### 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

### UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 04/07/2009  
Date Data Arrived at EDR: 04/07/2009  
Date Made Active in Reports: 05/14/2009  
Number of Days to Update: 37

Source: Department of Public Health  
Telephone: 707-463-4466  
Last EDR Contact: 06/21/2009  
Next Scheduled EDR Contact: 09/21/2009  
Data Release Frequency: Varies

### 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

### 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

## Local Land Records

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 05/29/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/03/2009	Telephone: 202-564-6023
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 05/18/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Varies

## 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: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 06/08/2009
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Varies

## LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/15/2009	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/19/2009	Telephone: 916-323-3400
Date Made Active in Reports: 06/15/2009	Last EDR Contact: 05/04/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 08/03/2009
	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: 03/30/2009	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 03/31/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 12/30/2009
Number of Days to Update: 8	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Semi-Annually

## **Records of Emergency Release Reports**

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/31/2009	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-366-4555
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 04/16/2009
Number of Days to Update: 43	Next Scheduled EDR Contact: 07/13/2009
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2007	Source: Office of Emergency Services
Date Data Arrived at EDR: 05/09/2008	Telephone: 916-845-8400
Date Made Active in Reports: 06/20/2008	Last EDR Contact: 05/18/2009
Number of Days to Update: 42	Next Scheduled EDR Contact: 08/17/2009
	Data Release Frequency: Varies

## LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 04/08/2009	Source: State Water Quality Control Board
Date Data Arrived at EDR: 04/08/2009	Telephone: 866-480-1028
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 07/09/2009
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/05/2009
	Data Release Frequency: Quarterly

## MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 04/08/2009	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/08/2009	Telephone: 866-480-1028
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 07/09/2009
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/05/2009
	Data Release Frequency: Quarterly

## **Other Ascertainable Records**

### RCRA-NonGen: RCRA - Non 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/12/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/18/2008	Telephone: (415) 495-8895
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 04/23/2009
Number of Days to Update: 118	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 05/28/2008	Telephone: 202-366-4595
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 05/27/2009
Number of Days to Update: 72	Next Scheduled EDR Contact: 08/24/2009
	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.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 703-692-8801  
Last EDR Contact: 05/08/2009  
Next Scheduled EDR Contact: 08/03/2009  
Data Release Frequency: Semi-Annually

### 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: 12/31/2007  
Date Data Arrived at EDR: 09/05/2008  
Date Made Active in Reports: 09/23/2008  
Number of Days to Update: 18

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 07/01/2009  
Next Scheduled EDR Contact: 09/28/2009  
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: 01/27/2009  
Date Data Arrived at EDR: 04/23/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 18

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 04/21/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

### 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: 04/23/2009  
Date Data Arrived at EDR: 04/28/2009  
Date Made Active in Reports: 05/19/2009  
Number of Days to Update: 21

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 06/29/2009  
Next Scheduled EDR Contact: 09/28/2009  
Data Release Frequency: Annually

### 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: 01/05/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 05/08/2009  
Number of Days to Update: 1

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 06/15/2009  
Next Scheduled EDR Contact: 09/14/2009  
Data Release Frequency: Varies

### 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: 02/19/2009  
Date Data Arrived at EDR: 03/24/2009  
Date Made Active in Reports: 05/05/2009  
Number of Days to Update: 42

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 06/23/2009  
Next Scheduled EDR Contact: 09/21/2009  
Data Release Frequency: Semi-Annually

### 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2007  
Date Data Arrived at EDR: 04/09/2009  
Date Made Active in Reports: 06/17/2009  
Number of Days to Update: 69

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 06/16/2009  
Next Scheduled EDR Contact: 09/14/2009  
Data Release Frequency: Annually

## 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: 12/31/2002  
Date Data Arrived at EDR: 04/14/2006  
Date Made Active in Reports: 05/30/2006  
Number of Days to Update: 46

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 07/14/2009  
Next Scheduled EDR Contact: 10/12/2009  
Data Release Frequency: Every 4 Years

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: 06/15/2009  
Next Scheduled EDR Contact: 09/14/2009  
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: 06/15/2009  
Next Scheduled EDR Contact: 09/14/2009  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

## 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: 12/31/2006  
Date Data Arrived at EDR: 03/14/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 35

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 07/14/2009  
Next Scheduled EDR Contact: 10/12/2009  
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: 03/20/2009  
Date Data Arrived at EDR: 03/20/2009  
Date Made Active in Reports: 05/05/2009  
Number of Days to Update: 46

Source: Environmental Protection Agency  
Telephone: 202-564-5088  
Last EDR Contact: 07/13/2009  
Next Scheduled EDR Contact: 10/12/2009  
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: 02/26/2009  
Date Data Arrived at EDR: 05/20/2009  
Date Made Active in Reports: 05/29/2009  
Number of Days to Update: 9

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 05/04/2009  
Next Scheduled EDR Contact: 08/03/2009  
Data Release Frequency: Annually

## 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: 04/02/2009  
Date Data Arrived at EDR: 04/24/2009  
Date Made Active in Reports: 05/19/2009  
Number of Days to Update: 25

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 06/29/2009  
Next Scheduled EDR Contact: 09/28/2009  
Data Release Frequency: Quarterly

## 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: 04/28/2009  
Date Data Arrived at EDR: 04/29/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 12

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 04/29/2009  
Next Scheduled EDR Contact: 07/27/2009  
Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 04/28/2009	Source: EPA
Date Data Arrived at EDR: 05/01/2009	Telephone: (415) 947-8000
Date Made Active in Reports: 05/19/2009	Last EDR Contact: 06/29/2009
Number of Days to Update: 18	Next Scheduled EDR Contact: 09/28/2009
	Data Release Frequency: Quarterly

## 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	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## 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: 12/31/2007	Source: EPA/NTIS
Date Data Arrived at EDR: 02/19/2009	Telephone: 800-424-9346
Date Made Active in Reports: 05/22/2009	Last EDR Contact: 06/08/2009
Number of Days to Update: 92	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Biennially

## 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	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 03/09/2009	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/13/2009	Telephone: 916-445-9379
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 06/11/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Quarterly

## CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/15/2009  
Next Scheduled EDR Contact: 09/14/2009  
Data Release Frequency: Quarterly

## 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). This listing is no longer updated by the state agency.

Date of Government Version: 04/20/2009  
Date Data Arrived at EDR: 04/22/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 19

Source: CAL EPA/Office of Emergency Information  
Telephone: 916-323-3400  
Last EDR Contact: 04/22/2009  
Next Scheduled EDR Contact: 07/20/2009  
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 [CALSTITES].

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

## NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993  
Date Data Arrived at EDR: 11/01/1993  
Date Made Active in Reports: 11/19/1993  
Number of Days to Update: 18

Source: State Water Resources Control Board  
Telephone: 916-445-3846  
Last EDR Contact: 07/13/2009  
Next Scheduled EDR Contact: 10/12/2009  
Data Release Frequency: No Update Planned

## 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: 05/06/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 4

Source: Department of Toxic Substance Control  
Telephone: 916-327-4498  
Last EDR Contact: 06/29/2009  
Next Scheduled EDR Contact: 09/28/2009  
Data Release Frequency: Annually

## WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 03/31/2009  
Date Data Arrived at EDR: 04/24/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 17

Source: Los Angeles Water Quality Control Board  
Telephone: 213-576-6726  
Last EDR Contact: 04/24/2009  
Next Scheduled EDR Contact: 07/20/2009  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2007  
Date Data Arrived at EDR: 02/17/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 50

Source: California Environmental Protection Agency  
Telephone: 916-255-1136  
Last EDR Contact: 05/08/2009  
Next Scheduled EDR Contact: 08/03/2009  
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: 12/31/2006  
Date Data Arrived at EDR: 10/16/2008  
Date Made Active in Reports: 11/26/2008  
Number of Days to Update: 41

Source: California Air Resources Board  
Telephone: 916-322-2990  
Last EDR Contact: 07/14/2009  
Next Scheduled EDR Contact: 10/12/2009  
Data Release Frequency: Varies

## 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: 12/31/2005  
Date Data Arrived at EDR: 12/08/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 34

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 05/08/2009  
Next Scheduled EDR Contact: 08/03/2009  
Data Release Frequency: Semi-Annually

## 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: 04/13/2009  
Date Data Arrived at EDR: 04/14/2009  
Date Made Active in Reports: 06/17/2009  
Number of Days to Update: 64

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 06/22/2009  
Next Scheduled EDR Contact: 08/10/2009  
Data Release Frequency: Varies

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 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: 05/08/2009  
Next Scheduled EDR Contact: 08/03/2009  
Data Release Frequency: N/A

## EDR PROPRIETARY RECORDS

### *EDR Proprietary Records*

#### Manufactured Gas Plants: 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Historical Auto Stations: EDR Proprietary 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.

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 Historical Cleaners: EDR Proprietary 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.

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

## 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: 04/24/2009  
Date Data Arrived at EDR: 04/28/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 13

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Semi-Annually

#### Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/24/2009  
Date Data Arrived at EDR: 04/28/2009  
Date Made Active in Reports: 05/14/2009  
Number of Days to Update: 16

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Semi-Annually

### CONTRA COSTA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/27/2009	Source: Contra Costa Health Services Department
Date Data Arrived at EDR: 05/28/2009	Telephone: 925-646-2286
Date Made Active in Reports: 06/15/2009	Last EDR Contact: 05/26/2009
Number of Days to Update: 18	Next Scheduled EDR Contact: 08/24/2009
	Data Release Frequency: Semi-Annually

## 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: 04/17/2009	Source: Dept. of Community Health
Date Data Arrived at EDR: 04/17/2009	Telephone: 559-445-3271
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/04/2009
Number of Days to Update: 24	Next Scheduled EDR Contact: 08/03/2009
	Data Release Frequency: Semi-Annually

## KERN COUNTY:

### Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 03/30/2009	Source: Kern County Environment Health Services Department
Date Data Arrived at EDR: 03/31/2009	Telephone: 661-862-8700
Date Made Active in Reports: 04/09/2009	Last EDR Contact: 06/15/2009
Number of Days to Update: 9	Next Scheduled EDR Contact: 08/31/2009
	Data Release Frequency: Quarterly

## 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: 12/31/1998	Source: EPA Region 9
Date Data Arrived at EDR: 07/07/1999	Telephone: 415-972-3178
Date Made Active in Reports: N/A	Last EDR Contact: 07/13/2009
Number of Days to Update: 0	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: No Update Planned

### HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/26/2008	Source: Department of Public Works
Date Data Arrived at EDR: 01/27/2009	Telephone: 626-458-3517
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 07/10/2009
Number of Days to Update: 71	Next Scheduled EDR Contact: 08/10/2009
	Data Release Frequency: Semi-Annually

### List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/12/2009  
Date Data Arrived at EDR: 05/14/2009  
Date Made Active in Reports: 06/15/2009  
Number of Days to Update: 32

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 05/12/2009  
Next Scheduled EDR Contact: 08/10/2009  
Data Release Frequency: Varies

## City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009  
Date Data Arrived at EDR: 03/10/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 29

Source: Engineering & Construction Division  
Telephone: 213-473-7869  
Last EDR Contact: 06/08/2009  
Next Scheduled EDR Contact: 09/07/2009  
Data Release Frequency: Varies

## Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/11/2009  
Date Data Arrived at EDR: 04/23/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 18

Source: Community Health Services  
Telephone: 323-890-7806  
Last EDR Contact: 05/11/2009  
Next Scheduled EDR Contact: 08/10/2009  
Data Release Frequency: Annually

## City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 05/11/2009  
Date Data Arrived at EDR: 05/19/2009  
Date Made Active in Reports: 06/12/2009  
Number of Days to Update: 24

Source: City of El Segundo Fire Department  
Telephone: 310-524-2236  
Last EDR Contact: 05/11/2009  
Next Scheduled EDR Contact: 08/10/2009  
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: 03/28/2003  
Date Data Arrived at EDR: 10/23/2003  
Date Made Active in Reports: 11/26/2003  
Number of Days to Update: 34

Source: City of Long Beach Fire Department  
Telephone: 562-570-2563  
Last EDR Contact: 06/03/2009  
Next Scheduled EDR Contact: 08/17/2009  
Data Release Frequency: Annually

## City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/23/2009  
Date Data Arrived at EDR: 02/24/2009  
Date Made Active in Reports: 04/09/2009  
Number of Days to Update: 44

Source: City of Torrance Fire Department  
Telephone: 310-618-2973  
Last EDR Contact: 06/12/2009  
Next Scheduled EDR Contact: 08/10/2009  
Data Release Frequency: Semi-Annually

## MARIN COUNTY:

### Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 02/05/2009  
Date Data Arrived at EDR: 02/17/2009  
Date Made Active in Reports: 04/09/2009  
Number of Days to Update: 51

Source: Public Works Department Waste Management  
Telephone: 415-499-6647  
Last EDR Contact: 04/27/2009  
Next Scheduled EDR Contact: 07/27/2009  
Data Release Frequency: Semi-Annually

## NAPA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 07/09/2008  
Date Data Arrived at EDR: 07/09/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 22

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 06/21/2009  
Next Scheduled EDR Contact: 09/21/2009  
Data Release Frequency: Semi-Annually

## Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008  
Date Data Arrived at EDR: 01/16/2008  
Date Made Active in Reports: 02/08/2008  
Number of Days to Update: 23

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 06/22/2009  
Next Scheduled EDR Contact: 09/21/2009  
Data Release Frequency: Annually

## ORANGE COUNTY:

### List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 05/06/2009  
Date Data Arrived at EDR: 06/09/2009  
Date Made Active in Reports: 06/15/2009  
Number of Days to Update: 6

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 06/03/2009  
Next Scheduled EDR Contact: 08/31/2009  
Data Release Frequency: Annually

### List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/02/2009  
Date Data Arrived at EDR: 03/27/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 12

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 06/03/2009  
Next Scheduled EDR Contact: 08/31/2009  
Data Release Frequency: Quarterly

### List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/06/2009  
Date Data Arrived at EDR: 06/09/2009  
Date Made Active in Reports: 06/12/2009  
Number of Days to Update: 3

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: 08/31/2009  
Data Release Frequency: Quarterly

## PLACER COUNTY:

### Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 04/27/2009  
Date Data Arrived at EDR: 04/28/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 13

Source: Placer County Health and Human Services  
Telephone: 530-889-7312  
Last EDR Contact: 06/28/2009  
Next Scheduled EDR Contact: 09/28/2009  
Data Release Frequency: Semi-Annually

## RIVERSIDE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/14/2009	Source: Department of Public Health
Date Data Arrived at EDR: 04/15/2009	Telephone: 951-358-5055
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 07/13/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Quarterly

## Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 05/06/2009	Source: Health Services Agency
Date Data Arrived at EDR: 05/07/2009	Telephone: 951-358-5055
Date Made Active in Reports: 05/14/2009	Last EDR Contact: 07/13/2009
Number of Days to Update: 7	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### Contaminated Sites

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/04/2009	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 04/29/2009	Telephone: 916-875-8406
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 04/29/2009
Number of Days to Update: 12	Next Scheduled EDR Contact: 07/27/2009
	Data Release Frequency: Quarterly

### ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/04/2009	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 04/29/2009	Telephone: 916-875-8406
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 04/29/2009
Number of Days to Update: 12	Next Scheduled EDR Contact: 07/27/2009
	Data Release Frequency: Quarterly

## 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: 04/08/2009	Source: San Bernardino County Fire Department Hazardous Materials Division
Date Data Arrived at EDR: 04/08/2009	Telephone: 909-387-3041
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 06/01/2009
Number of Days to Update: 33	Next Scheduled EDR Contact: 08/31/2009
	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.)



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/16/2008  
Date Data Arrived at EDR: 10/29/2008  
Date Made Active in Reports: 11/26/2008  
Number of Days to Update: 28

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 07/02/2009  
Next Scheduled EDR Contact: 09/28/2009  
Data Release Frequency: Quarterly

## Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2008  
Date Data Arrived at EDR: 12/23/2008  
Date Made Active in Reports: 01/27/2009  
Number of Days to Update: 35

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 05/18/2009  
Next Scheduled EDR Contact: 08/17/2009  
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: 01/22/2009  
Date Data Arrived at EDR: 03/31/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 8

Source: San Diego County Department of Environmental Health  
Telephone: 619-338-2371  
Last EDR Contact: 07/01/2009  
Next Scheduled EDR Contact: 09/28/2009  
Data Release Frequency: Varies

## SAN FRANCISCO COUNTY:

### Local Oversight 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: 06/01/2009  
Next Scheduled EDR Contact: 08/31/2009  
Data Release Frequency: Quarterly

### Underground Storage Tank Information

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: 10/01/2008  
Number of Days to Update: 12

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 06/15/2009  
Next Scheduled EDR Contact: 08/31/2009  
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: 04/22/2009  
Date Data Arrived at EDR: 05/12/2009  
Date Made Active in Reports: 06/12/2009  
Number of Days to Update: 31

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 07/13/2009  
Next Scheduled EDR Contact: 10/12/2009  
Data Release Frequency: Semi-Annually

## SAN MATEO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 04/29/2009  
Date Data Arrived at EDR: 05/01/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 10

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 07/06/2009  
Next Scheduled EDR Contact: 10/05/2009  
Data Release Frequency: Annually

## Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 04/07/2009  
Date Data Arrived at EDR: 04/07/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 34

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 07/06/2009  
Next Scheduled EDR Contact: 10/05/2009  
Data Release Frequency: Semi-Annually

## SANTA CLARA COUNTY:

### 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: 05/29/2009  
Date Data Arrived at EDR: 06/01/2009  
Date Made Active in Reports: 06/15/2009  
Number of Days to Update: 14

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 06/22/2009  
Next Scheduled EDR Contact: 09/21/2009  
Data Release Frequency: Varies

### Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 06/01/2009  
Date Data Arrived at EDR: 06/01/2009  
Date Made Active in Reports: 06/15/2009  
Number of Days to Update: 14

Source: City of San Jose Fire Department  
Telephone: 408-277-4659  
Last EDR Contact: 06/01/2009  
Next Scheduled EDR Contact: 08/31/2009  
Data Release Frequency: Annually

## SOLANO COUNTY:

### Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/23/2009  
Date Data Arrived at EDR: 04/07/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 34

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 06/22/2009  
Next Scheduled EDR Contact: 09/21/2009  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 03/23/2009  
Date Data Arrived at EDR: 04/10/2009  
Date Made Active in Reports: 05/14/2009  
Number of Days to Update: 34

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 06/22/2009  
Next Scheduled EDR Contact: 06/22/2009  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

### Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/20/2009  
Date Data Arrived at EDR: 04/21/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 20

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 04/20/2009  
Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Quarterly

## SUTTER COUNTY:

### Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 04/01/2009  
Date Data Arrived at EDR: 04/02/2009  
Date Made Active in Reports: 04/09/2009  
Number of Days to Update: 7

Source: Sutter County Department of Agriculture  
Telephone: 530-822-7500  
Last EDR Contact: 06/29/2009  
Next Scheduled EDR Contact: 09/28/2009  
Data Release Frequency: Semi-Annually

## 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: 02/26/2009  
Date Data Arrived at EDR: 03/31/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 8

Source: Ventura County Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 06/12/2009  
Next Scheduled EDR Contact: 09/07/2009  
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: 08/01/2008  
Date Data Arrived at EDR: 09/04/2008  
Date Made Active in Reports: 09/18/2008  
Number of Days to Update: 14

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 05/17/2009  
Next Scheduled EDR Contact: 08/17/2009  
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: 06/09/2009  
Next Scheduled EDR Contact: 09/07/2009  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 03/31/2009	Source: Environmental Health Division
Date Data Arrived at EDR: 04/08/2009	Telephone: 805-654-2813
Date Made Active in Reports: 05/14/2009	Last EDR Contact: 07/09/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/05/2009
	Data Release Frequency: Quarterly

## YOLO COUNTY:

### Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 04/21/2009	Source: Yolo County Department of Health
Date Data Arrived at EDR: 05/06/2009	Telephone: 530-666-8646
Date Made Active in Reports: 05/14/2009	Last EDR Contact: 07/13/2009
Number of Days to Update: 8	Next Scheduled EDR Contact: 10/12/2009
	Data Release Frequency: Annually

## 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: 12/31/2006	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/11/2008	Telephone: 860-424-3375
Date Made Active in Reports: 03/19/2009	Last EDR Contact: 06/12/2009
Number of Days to Update: 98	Next Scheduled EDR Contact: 09/07/2009
	Data Release Frequency: Annually

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/05/2009	Telephone: N/A
Date Made Active in Reports: 05/22/2009	Last EDR Contact: 05/05/2009
Number of Days to Update: 17	Next Scheduled EDR Contact: 08/03/2009
	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: 05/22/2009	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 05/27/2009	Telephone: 518-402-8651
Date Made Active in Reports: 07/01/2009	Last EDR Contact: 05/27/2009
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/24/2009
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007  
Date Data Arrived at EDR: 09/11/2008  
Date Made Active in Reports: 10/02/2008  
Number of Days to Update: 21

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 06/08/2009  
Next Scheduled EDR Contact: 09/07/2009  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 06/01/2009  
Date Data Arrived at EDR: 06/12/2009  
Date Made Active in Reports: 06/29/2009  
Number of Days to Update: 17

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 06/15/2009  
Next Scheduled EDR Contact: 09/14/2009  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2007  
Date Data Arrived at EDR: 08/22/2008  
Date Made Active in Reports: 09/08/2008  
Number of Days to Update: 17

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 07/06/2009  
Next Scheduled EDR Contact: 10/05/2009  
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

## Electric Power Transmission Line Data

Source: PennWell Corporation  
Telephone: (800) 823-6277

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.

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.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

### STREET AND ADDRESS INFORMATION

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

SLUSD  
16501 ASHLAND AVENUE  
SAN LORENZO, CA 94580

### TARGET PROPERTY COORDINATES

Latitude (North):	37.68930 - 37° 41' 21.5"
Longitude (West):	122.1193 - 122° 7' 9.5"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	577650.9
UTM Y (Meters):	4171503.0
Elevation:	41 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	37122-F1 HAYWARD, CA
Most Recent Revision:	1980

West Map:	37122-F2 SAN LEANDRO, CA
Most Recent Revision:	1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

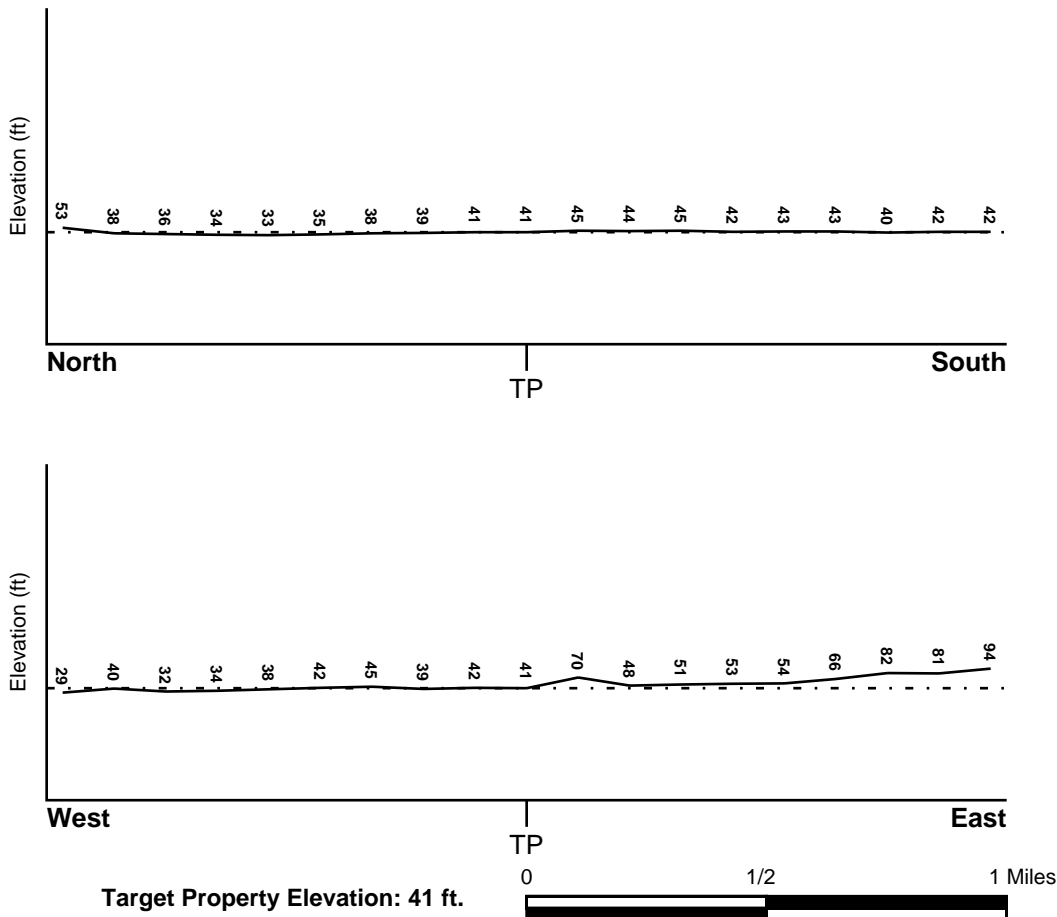
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WNW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.



# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## FEMA FLOOD ZONE

<u>Target Property County</u> ALAMEDA, CA	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
--	---

Flood Plain Panel at Target Property: 0600010090C

Additional Panels in search area: 0600130002B

## NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> HAYWARD	<u>NWI Electronic Data Coverage</u> 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.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
A1	0 - 1/8 Mile SE	E
A2	0 - 1/8 Mile SE	E
A3	0 - 1/8 Mile East	E
B5	1/4 - 1/2 Mile SW	SW
B6	1/4 - 1/2 Mile SW	SW
B7	1/4 - 1/2 Mile SW	NW
B8	1/4 - 1/2 Mile WSW	SW
C10	1/4 - 1/2 Mile NNE	SE
C11	1/4 - 1/2 Mile NNE	SW

\* ©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

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
12	1/4 - 1/2 Mile North	W
C13	1/4 - 1/2 Mile NNE	SW
D14	1/2 - 1 Mile NNE	NE, NW
E15	1/2 - 1 Mile SSE	SSE
E16	1/2 - 1 Mile SSE	SSE
D17	1/2 - 1 Mile North	NE, NW
F18	1/2 - 1 Mile West	W
F19	1/2 - 1 Mile West	W
H22	1/2 - 1 Mile West	SW
H23	1/2 - 1 Mile West	SW
I24	1/2 - 1 Mile North	NW
27	1/2 - 1 Mile North	NW
30	1/2 - 1 Mile SSW	SW
31	1/2 - 1 Mile NNE	W

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**

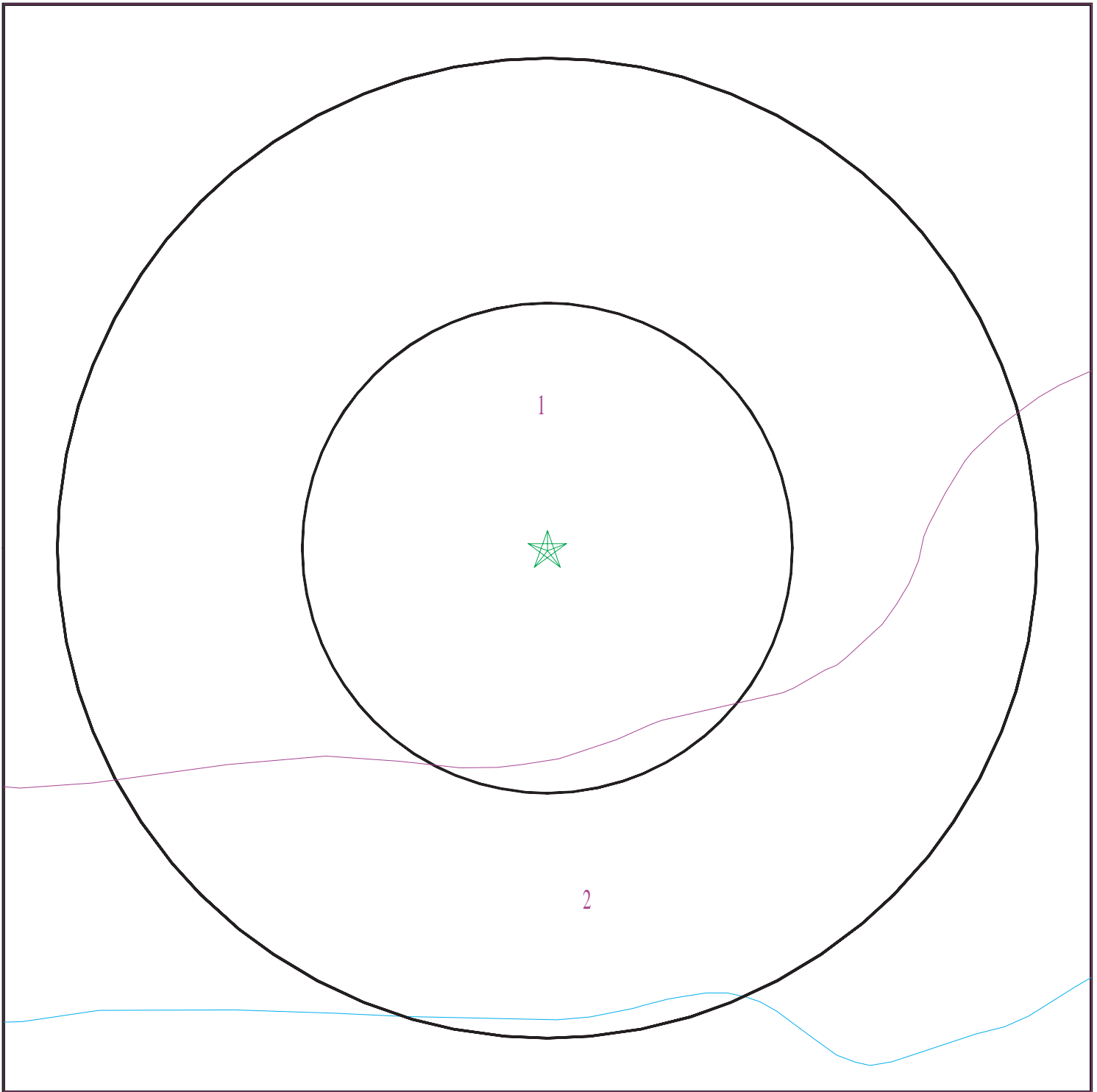
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q ( <i>decoded above as Era, System &amp; Series</i> )

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 02542549.2r



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: SLUSD  
ADDRESS: 16501 Ashland Avenue  
San Lorenzo CA 94580  
LAT/LONG: 37.6893 / 122.1193

CLIENT: Kleinfelder, Inc.  
CONTACT: Mehagan Hopkins  
INQUIRY #: 02542549.2r  
DATE: July 15, 2009 3:56 pm

# 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: Danville

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	20 inches	53 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	53 inches	79 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 2**

Soil Component Name: Yolo

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 6.1
2	7 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 6.1

**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**

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
4	USGS3235823	1/8 - 1/4 Mile WSW
9	USGS3235995	1/4 - 1/2 Mile SSE
G21	USGS3235996	1/2 - 1 Mile SE
J28	USGS3235820	1/2 - 1 Mile WSW
J29	USGS3235821	1/2 - 1 Mile WSW

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

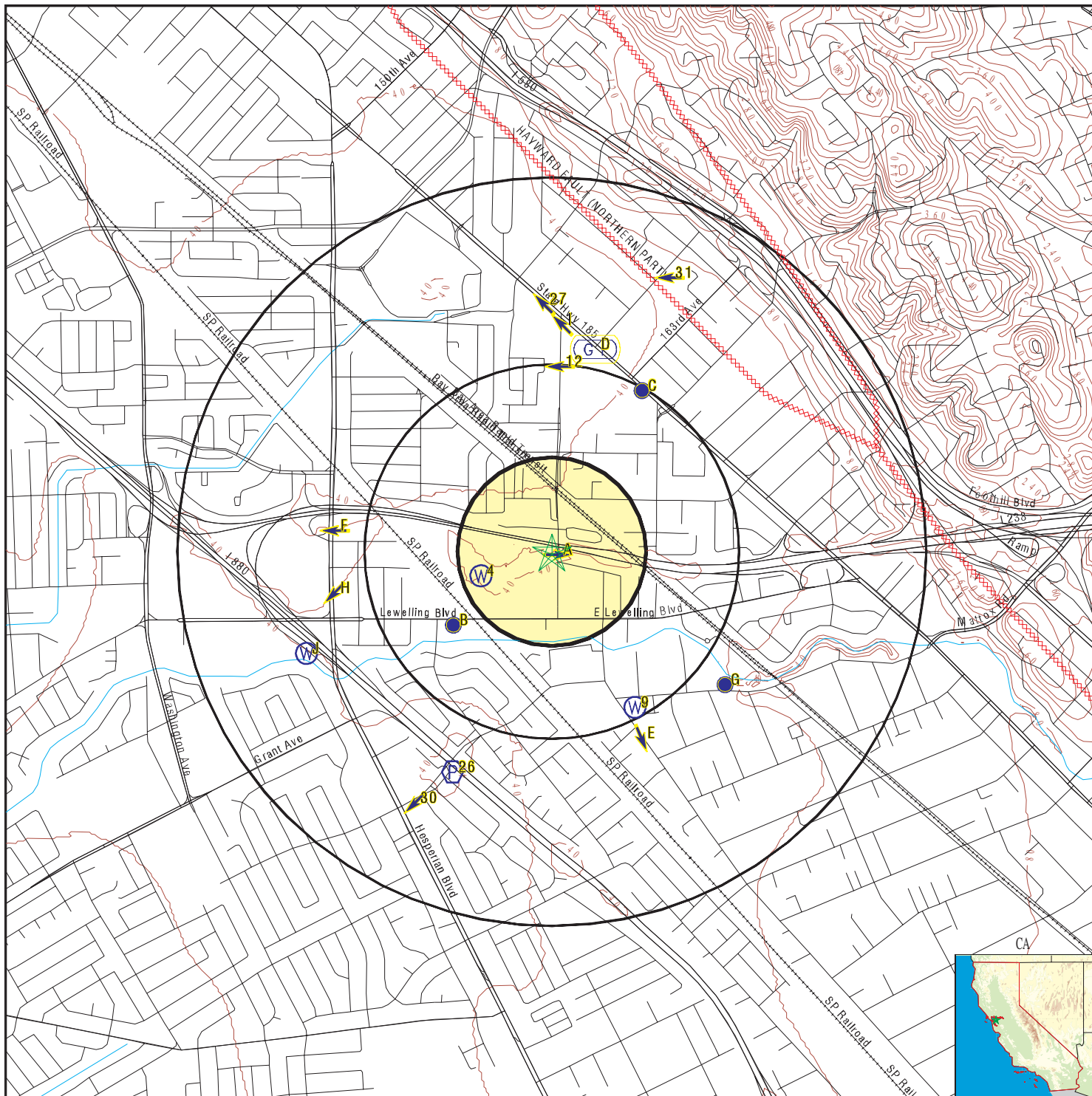
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
26	CA1700563	1/2 - 1 Mile SSW

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
G20	CADW20000037959	1/2 - 1 Mile SE
I25	CADW20000038035	1/2 - 1 Mile North

# PHYSICAL SETTING SOURCE MAP - 02542549.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: SLUSD  
 ADDRESS: 16501 Ashland Avenue  
 San Lorenzo CA 94580  
 LAT/LONG: 37.6893 / 122.1193

CLIENT: Kleinfelder, Inc.  
 CONTACT: Mehagan Hopkins  
 INQUIRY #: 02542549.2r  
 DATE: July 15, 2009 3:56 pm



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

<b>A1</b> <b>SE</b> <b>0 - 1/8 Mile</b> <b>Lower</b>	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1095 E 4.55 9.41 Not Reported 12/16/1996	<b>AQUIFLOW</b>	<b>52519</b>
---	---	--	-----------------	--------------

<b>A2</b> <b>SE</b> <b>0 - 1/8 Mile</b> <b>Lower</b>	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1095 E 6.5 7.0 Not Reported 08/19/1993	<b>AQUIFLOW</b>	<b>52518</b>
---	---	--	-----------------	--------------

<b>A3</b> <b>East</b> <b>0 - 1/8 Mile</b> <b>Lower</b>	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1095 E 5.0 7.0 Not Reported 09/29/1993	<b>AQUIFLOW</b>	<b>52517</b>
---	---	--	-----------------	--------------

<b>4</b> <b>WSW</b> <b>1/8 - 1/4 Mile</b> <b>Lower</b>			<b>FED USGS</b>	<b>USGS3235823</b>
---	--	--	-----------------	--------------------

Agency cd:	USGS	Site no:	374113122071901
Site name:	003S002W07G012M		
Latitude:	374118.1		
Longitude:	1220721.9	Dec lat:	37.68836111
Dec lon:	-122.12275	Coor meth:	D
Coor accr:	1	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	06
State:	06	County:	001
Country:	US	Land net:	Not Reported
Location map:	HAYWARD	Map scale:	24000
Altitude:	35.7		
Altitude method:	Differential Global Positioning System (GPS)		
Altitude accuracy:	.2		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	San Francisco Bay, California. Area = 1200 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19910812
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	595	Hole depth:	610
Source of depth data:	driller		
Project number:	470653600		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0  
 Water quality data end date: 1999-11-15  
 Ground water data begin date: 2002-11-13  
 Ground water data count: 1

Water quality data begin date: 1999-11-15  
 Water quality data count: 1  
 Ground water data end date: 2002-11-13

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
2002-11-13	30.14	

---

<b>B5 SW 1/4 - 1/2 Mile Higher</b>	Site ID:	01-1531		
	Groundwater Flow:	SW	<b>AQUIFLOW</b>	<b>52391</b>
	Shallow Water Depth:	13.37		
	Deep Water Depth:	22.18		
	Average Water Depth:	Not Reported		
	Date:	11/14/1994		

---

<b>B6 SW 1/4 - 1/2 Mile Higher</b>	Site ID:	01-1531		
	Groundwater Flow:	SW	<b>AQUIFLOW</b>	<b>52392</b>
	Shallow Water Depth:	13.35		
	Deep Water Depth:	17.50		
	Average Water Depth:	Not Reported		
	Date:	09/01/1999		

---

<b>B7 SW 1/4 - 1/2 Mile Higher</b>	Site ID:	01-1531		
	Groundwater Flow:	NW	<b>AQUIFLOW</b>	<b>52393</b>
	Shallow Water Depth:	15.62		
	Deep Water Depth:	17.62		
	Average Water Depth:	Not Reported		
	Date:	10/08/1987		

---

<b>B8 WSW 1/4 - 1/2 Mile Higher</b>	Site ID:	01-1714		
	Groundwater Flow:	SW	<b>AQUIFLOW</b>	<b>68802</b>
	Shallow Water Depth:	13.82		
	Deep Water Depth:	19.28		
	Average Water Depth:	Not Reported		
	Date:	11/17/1993		

---

<b>9 SSE 1/4 - 1/2 Mile Higher</b>			<b>FED USGS</b>	<b>USGS3235995</b>
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Agency cd:	USGS	Site no:	374100122065101
Site name:	003S002W08M003M		
Latitude:	374100		
Longitude:	1220651	Dec lat:	37.68326438
Dec lon:	-122.11524193	Coor meth:	U
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	001
Country:	US	Land net:	Not Reported
Location map:	HAYWARD	Map scale:	24000

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	48		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	San Francisco Bay. California. Area = 1200 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1968
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	85	Hole depth:	85
Source of depth data:	driller		
Project number:	470653600		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1998-11-18
Water quality data end date:	1999-03-24	Water quality data count:	3
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

---

<b>C10 NNE 1/4 - 1/2 Mile Higher</b>	Site ID:	01-0771		
	Groundwater Flow:	SE	<b>AQUIFLOW</b>	<b>52398</b>
	Shallow Water Depth:	13.5		
	Deep Water Depth:	14.5		
	Average Water Depth:	Not Reported		
	Date:	11/27/1990		

---

<b>C11 NNE 1/4 - 1/2 Mile Higher</b>	Site ID:	01-0771		
	Groundwater Flow:	SW	<b>AQUIFLOW</b>	<b>52396</b>
	Shallow Water Depth:	2.5		
	Deep Water Depth:	10.0		
	Average Water Depth:	Not Reported		
	Date:	05/26/1999		

---

<b>12 North 1/4 - 1/2 Mile Lower</b>	Site ID:	Not Reported		
	Groundwater Flow:	W	<b>AQUIFLOW</b>	<b>52511</b>
	Shallow Water Depth:	6.05		
	Deep Water Depth:	9.23		
	Average Water Depth:	Not Reported		
	Date:	12/06/1994		

---

<b>C13 NNE 1/4 - 1/2 Mile Higher</b>	Site ID:	01-0771		
	Groundwater Flow:	SW	<b>AQUIFLOW</b>	<b>52397</b>
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	10		
	Date:	12/09/1998		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
<b>D14</b> <b>NNE</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID:	01-3745	<b>AQUIFLOW</b>	<b>67600</b>
	Groundwater Flow:	NE, NW		
	Shallow Water Depth:	9.5		
	Deep Water Depth:	10.0		
	Average Water Depth:	Not Reported		
Date:	09/10/1991			
<b>E15</b> <b>SSE</b> <b>1/2 - 1 Mile</b> <b>Higher</b>	Site ID:	01-0822	<b>AQUIFLOW</b>	<b>53506</b>
	Groundwater Flow:	SSE		
	Shallow Water Depth:	15.5		
	Deep Water Depth:	20.04		
	Average Water Depth:	Not Reported		
Date:	03/08/1995			
<b>E16</b> <b>SSE</b> <b>1/2 - 1 Mile</b> <b>Higher</b>	Site ID:	01-0822	<b>AQUIFLOW</b>	<b>53505</b>
	Groundwater Flow:	SSE		
	Shallow Water Depth:	6.53		
	Deep Water Depth:	6.60		
	Average Water Depth:	Not Reported		
Date:	07/16/1992			
<b>D17</b> <b>North</b> <b>1/2 - 1 Mile</b> <b>Lower</b>	Site ID:	01-1164	<b>AQUIFLOW</b>	<b>67886</b>
	Groundwater Flow:	NE, NW		
	Shallow Water Depth:	1.5		
	Deep Water Depth:	8.5		
	Average Water Depth:	Not Reported		
Date:	03/06/1992			
<b>F18</b> <b>West</b> <b>1/2 - 1 Mile</b> <b>Higher</b>	Site ID:	01-0328	<b>AQUIFLOW</b>	<b>52959</b>
	Groundwater Flow:	W		
	Shallow Water Depth:	14.5		
	Deep Water Depth:	15.0		
	Average Water Depth:	Not Reported		
Date:	11/17/1992			
<b>F19</b> <b>West</b> <b>1/2 - 1 Mile</b> <b>Higher</b>	Site ID:	01-0328	<b>AQUIFLOW</b>	<b>52960</b>
	Groundwater Flow:	W		
	Shallow Water Depth:	10.87		
	Deep Water Depth:	14.95		
	Average Water Depth:	Not Reported		
Date:	09/06/1994			
<b>G20</b> <b>SE</b> <b>1/2 - 1 Mile</b> <b>Higher</b>			<b>CA WELLS</b>	<b>CADW20000037959</b>

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude: 122.1098  
 Latitude: 37.6842  
 Stwellno: 03S02W08L003M  
 Districtco: 7  
 Welluseco: I  
 Countycode: 1  
 Gwcode: 200901  
 Site id: CADW20000037959

**G21**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3235996**

Agency cd:	USGS	Site no:	374103122063901
Site name:	003S002W08L003M		
Latitude:	374103		
Longitude:	1220639	Dec lat:	37.68416667
Dec lon:	-122.11083333	Coor meth:	G
Coor accr:	F	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	06
State:	06	County:	001
Country:	US	Land net:	Not Reported
Location map:	HAYWARD	Map scale:	24000
Altitude:	64.6		
Altitude method:	Level or other surveying method		
Altitude accuracy:	1		
Altitude datum:	North American Vertical Datum of 1988		
Hydrologic:	Not Reported		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	1942
Date inventoried:	19990129	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	211	Hole depth:	Not Reported
Source of depth data:	other government (other than USGS)		
Project number:	470653600		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	2002-11-13	Ground water data end date:	2002-11-13
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
2002-11-13	28.07	

**H22**  
**West**  
**1/2 - 1 Mile**  
**Higher**

Site ID: 01-0126  
 Groundwater Flow: SW  
 Shallow Water Depth: 13.5  
 Deep Water Depth: 25.0  
 Average Water Depth: Not Reported  
 Date: 09/16/1986

**AQUIFLOW      50310**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**H23**  
**West**  
**1/2 - 1 Mile**  
**Higher**

Site ID: 01-0126  
Groundwater Flow: SW  
Shallow Water Depth: 9.73  
Deep Water Depth: 15.29  
Average Water Depth: Not Reported  
Date: 06/10/1996

**AQUIFLOW      50309**

**I24**  
**North**  
**1/2 - 1 Mile**  
**Lower**

Site ID: 01-0178  
Groundwater Flow: NW  
Shallow Water Depth: 7.12  
Deep Water Depth: 8.19  
Average Water Depth: Not Reported  
Date: 09/16/1994

**AQUIFLOW      67597**

**I25**  
**North**  
**1/2 - 1 Mile**  
**Lower**

Longitude: 122.1182  
Latitude: 37.6983  
Stwellno: 03S02W06R002M  
Districtco: 7  
Welluseco: I  
Countycode: 1  
Gwcode: 200901  
Site id: CADW20000038035

**CA WELLS      CADW20000038035**

**26**  
**SSW**  
**1/2 - 1 Mile**  
**Higher**

Pwsid: CA1700563      Epa region: 09  
State: CA      County: Not Reported  
Pws name: Lake County CSA 22 - Mt. Hannah  
Population Served: 88      Pwssvconn: 35  
PWS Source: Groundwater  
Pws type: CWS  
Status: Active      Owner type: Local\_Govt  
Facility id: 1  
Facility name: WELL 01 - INACTIVE  
Facility type: Well      Treatment process: hypochlorination, post  
Treatment objective: disinfection  
Contact name: Mark Dellinger  
Original name: Lake County CSA 22 - Mt. Hannah  
Contact phone: 7072630119      Contact address1: 230A Main Street  
Contact address2: Not Reported      Contact city: Lakeport  
Contact zip: 95453

**FRDS PWS      CA1700563**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	3		
Facility name:	TREATMENT PLANT - WELL 02		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported	Contact city:	Lakeport
Contact zip:	95453		
Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563001		
Facility name:	WELL 01 - INACTIVE		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported	Contact city:	Lakeport
Contact zip:	95453		
Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563002		
Facility name:	WELL 02		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported	Contact city:	Lakeport
Contact zip:	95453		
Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563003		
Facility name:	TREATMENT PLANT - WELL 02		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contact name: Mark Dellinger  
 Original name: Lake County CSA 22 - Mt. Hannah  
 Contact phone: 7072630119      Contact address1: 230A Main Street  
 Contact address2: Not Reported      Contact city: Lakeport  
 Contact zip: 95453

Pwsid: CA1700563      Epa region: 09  
 State: CA      County: Not Reported  
 Pws name: Lake County CSA 22 - Mt. Hannah  
 Population Served: 88      Pwssvconn: 35  
 PWS Source: Groundwater  
 Pws type: CWS  
 Status: Active      Owner type: Local\_Govt  
 Facility id: 1  
 Facility name: WELL 01 - INACTIVE  
 Facility type: Well      Treatment process: filtration, cartridge  
 Treatment objective: particulate removal

Contact name: Mark Dellinger  
 Original name: Lake County CSA 22 - Mt. Hannah  
 Contact phone: 7072630119      Contact address1: 230A Main Street  
 Contact address2: Not Reported      Contact city: Lakeport  
 Contact zip: 95453

Pwsid: CA1700563      Epa region: 09  
 State: CA      County: Not Reported  
 Pws name: Lake County CSA 22 - Mt. Hannah  
 Population Served: 88      Pwssvconn: 35  
 PWS Source: Groundwater  
 Pws type: CWS  
 Status: Active      Owner type: Local\_Govt  
 Facility id: 3  
 Facility name: TREATMENT PLANT - WELL 02  
 Facility type: Treatment\_plant      Treatment process: filtration, cartridge  
 Treatment objective: particulate removal

Contact name: Mark Dellinger  
 Original name: Lake County CSA 22 - Mt. Hannah  
 Contact phone: 7072630119      Contact address1: 230A Main Street  
 Contact address2: Not Reported      Contact city: Lakeport  
 Contact zip: 95453

Pwsid: CA1700563      Epa region: 09  
 State: CA      County: Not Reported  
 Pws name: Lake County CSA 22 - Mt. Hannah  
 Population Served: 88      Pwssvconn: 35  
 PWS Source: Groundwater  
 Pws type: CWS  
 Status: Active      Owner type: Local\_Govt  
 Facility id: CA1700563001  
 Facility name: WELL 01 - INACTIVE  
 Facility type: Well      Treatment process: filtration, cartridge  
 Treatment objective: particulate removal

Contact name: Mark Dellinger  
 Original name: Lake County CSA 22 - Mt. Hannah  
 Contact phone: 7072630119      Contact address1: 230A Main Street  
 Contact address2: Not Reported      Contact city: Lakeport  
 Contact zip: 95453



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid: CA1700563                      Epa region: 09  
 State: CA                                      County: Not Reported  
 Pws name: Lake County CSA 22 - Mt. Hannah  
 Population Served: 88                      Pwssvcconn: 35  
 PWS Source: Groundwater  
 Pws type: CWS  
 Status: Active                                      Owner type: Local\_Govt  
 Facility id: CA1700563002  
 Facility name: WELL 02  
 Facility type: Well                                      Treatment process: filtration, cartridge  
 Treatment objective: particulate removal  
 Contact name: Mark Dellinger  
 Original name: Lake County CSA 22 - Mt. Hannah  
 Contact phone: 7072630119                      Contact address1: 230A Main Street  
 Contact address2: Not Reported                      Contact city: Lakeport  
 Contact zip: 95453

Pwsid: CA1700563                      Epa region: 09  
 State: CA                                      County: Not Reported  
 Pws name: Lake County CSA 22 - Mt. Hannah  
 Population Served: 88                      Pwssvcconn: 35  
 PWS Source: Groundwater  
 Pws type: CWS  
 Status: Active                                      Owner type: Local\_Govt  
 Facility id: CA1700563003  
 Facility name: TREATMENT PLANT - WELL 02  
 Facility type: Treatment\_plant                      Treatment process: filtration, cartridge  
 Treatment objective: particulate removal  
 Contact name: Mark Dellinger  
 Original name: Lake County CSA 22 - Mt. Hannah  
 Contact phone: 7072630119                      Contact address1: 230A Main Street  
 Contact address2: Not Reported                      Contact city: Lakeport  
 Contact zip: 95453

Pwsid: CA1700563                      Epa region: 09  
 State: CA                                      County: Not Reported  
 Pws name: Lake County CSA 22 - Mt. Hannah  
 Population Served: 88                      Pwssvcconn: 35  
 PWS Source: Groundwater  
 Pws type: CWS  
 Status: Active                                      Owner type: Local\_Govt  
 Facility id: 1  
 Facility name: WELL 01 - INACTIVE  
 Facility type: Well                                      Treatment process: hypochlorination, post  
 Treatment objective: disinfection  
 Contact name: Mark Dellinger  
 Original name: Lake County CSA 22 - Mt. Hannah  
 Contact phone: 7072630119                      Contact address1: 230A Main Street  
 Contact address2: Not Reported                      Contact city: Lakeport  
 Contact zip: 95453

Pwsid: CA1700563                      Epa region: 09  
 State: CA                                      County: Not Reported  
 Pws name: Lake County CSA 22 - Mt. Hannah  
 Population Served: 88                      Pwssvcconn: 35  
 PWS Source: Groundwater  
 Pws type: CWS  
 Status: Active                                      Owner type: Local\_Govt  
 Facility id: 3  
 Facility name: TREATMENT PLANT - WELL 02  
 Facility type: Treatment\_plant                      Treatment process: hypochlorination, post  
 Treatment objective: disinfection

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported	Contact city:	Lakeport
Contact zip:	95453		
Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563001		
Facility name:	WELL 01 - INACTIVE		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported	Contact city:	Lakeport
Contact zip:	95453		
Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563002		
Facility name:	WELL 02		
Facility type:	Well	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported	Contact city:	Lakeport
Contact zip:	95453		
Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563003		
Facility name:	TREATMENT PLANT - WELL 02		
Facility type:	Treatment_plant	Treatment process:	hypochlorination, post
Treatment objective:	disinfection		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported	Contact city:	Lakeport
Contact zip:	95453		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	1		
Facility name:	WELL 01 - INACTIVE		
Facility type:	Well	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported	Contact city:	Lakeport
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	3		
Facility name:	TREATMENT PLANT - WELL 02		
Facility type:	Treatment_plant	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported	Contact city:	Lakeport
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563001		
Facility name:	WELL 01 - INACTIVE		
Facility type:	Well	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		
Contact name:	Mark Dellinger		
Original name:	Lake County CSA 22 - Mt. Hannah		
Contact phone:	7072630119	Contact address1:	230A Main Street
Contact address2:	Not Reported	Contact city:	Lakeport
Contact zip:	95453		

Pwsid:	CA1700563	Epa region:	09
State:	CA	County:	Not Reported
Pws name:	Lake County CSA 22 - Mt. Hannah		
Population Served:	88	Pwssvcconn:	35
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Local_Govt
Facility id:	CA1700563002		
Facility name:	WELL 02		
Facility type:	Well	Treatment process:	filtration, cartridge
Treatment objective:	particulate removal		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Contact name: Mark Dellinger  
 Original name: Lake County CSA 22 - Mt. Hannah  
 Contact phone: 7072630119      Contact address1: 230A Main Street  
 Contact address2: Not Reported      Contact city: Lakeport  
 Contact zip: 95453

Pwsid: CA1700563      Epa region: 09  
 State: CA      County: Not Reported  
 Pws name: Lake County CSA 22 - Mt. Hannah  
 Population Served: 88      Pwssvconn: 35  
 PWS Source: Groundwater  
 Pws type: CWS  
 Status: Active      Owner type: Local\_Govt  
 Facility id: CA1700563003  
 Facility name: TREATMENT PLANT - WELL 02  
 Facility type: Treatment\_plant      Treatment process: filtration, cartridge  
 Treatment objective: particulate removal

Contact name: Mark Dellinger  
 Original name: Lake County CSA 22 - Mt. Hannah  
 Contact phone: 7072630119      Contact address1: 230A Main Street  
 Contact address2: Not Reported      Contact city: Lakeport  
 Contact zip: 95453

PWS ID: CA1700563  
 Date Initiated: Not Reported      Date Deactivated: Not Reported  
 PWS Name: LAKE COUNTY CSA 22 - MT. HANNAH  
 LAKEPORT, CA 95453

Addressee / Facility: System Owner/Responsible Party  
 MT HANNAH MUTUAL  
 17153 VIA ALAMITOS  
 SAN LORENZO, CA 94580

Facility Latitude: 37 40 51      Facility Longitude: 122 07 23  
 City Served: Not Reported  
 Treatment Class: Untreated      Population: 100

Violations information not reported.

<b>27 North 1/2 - 1 Mile Lower</b>	Site ID:	01-2910	<b>AQUIFLOW</b>	<b>67598</b>
	Groundwater Flow:	NW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	8.5		
	Date:	09/28/1992		

<b>J28 WSW 1/2 - 1 Mile Lower</b>		<b>FED USGS</b>	<b>USGS3235820</b>
---	--	-----------------	--------------------

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	374107122075201
Site name:	003S002W07E002M		
Latitude:	374107.36		
Longitude:	1220752.45	Dec lat:	37.68537778
Dec lon:	-122.13123611	Coor meth:	D
Coor accr:	1	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	06
State:	06	County:	001
Country:	US	Land net:	Not Reported
Location map:	SAN LEANDRO	Map scale:	24000
Altitude:	33.82		
Altitude method:	Differential Global Positioning System (GPS)		
Altitude accuracy:	0.2		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19991222
Date inventoried:	20000210	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	540	Hole depth:	560
Source of depth data:	driller		
Project number:	470653600		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Daily flow data count:	0		
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0		
Water quality data begin date:	0000-00-00	Water quality data end date:	0000-00-00
Water quality data count:	0		
Ground water data begin date:	2002-11-13	Ground water data end date:	2002-11-13
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----		
2002-11-13	42.89	

**J29**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS USGS3235821**

Agency cd:	USGS	Site no:	374107122075301
Site name:	003S002W07E001M		
Latitude:	374107.20		
Longitude:	1220752.56	Dec lat:	37.68533333
Dec lon:	-122.13126667	Coor meth:	D
Coor accr:	1	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	06
State:	06	County:	001
Country:	US	Land net:	Not Reported
Location map:	SAN LEANDRO	Map scale:	24000
Altitude:	34.72		
Altitude method:	Differential Global Positioning System (GPS)		
Altitude accuracy:	0.2		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Not Reported		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	20000101
Date inventoried:	20000210	Mean greenwich time offset:	PST

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Local standard time flag: Y  
 Type of ground water site: Single well, other than collector or Ranney type  
 Aquifer Type: Not Reported  
 Aquifer: Not Reported  
 Well depth: 540    Hole depth: 880  
 Source of depth data: other reported  
 Project number: 470653600  
 Real time data flag: 0    Daily flow data begin date: 0000-00-00  
 Daily flow data end date: 0000-00-00                          Daily flow data count: 0  
 Peak flow data begin date: 0000-00-00                      Peak flow data end date: 0000-00-00  
 Peak flow data count: 0    Water quality data begin date: 2000-02-10  
 Water quality data end date: 2000-02-10                      Water quality data count: 1  
 Ground water data begin date: 2002-11-13                      Ground water data end date: 2003-08-22  
 Ground water data count: 2

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel		Date	Feet below Surface	Feet to Sealevel
2003-08-22	46.10			2002-11-13	43.91	

<b>30</b>		Site ID: 01-1298	
<b>SSW</b>		Groundwater Flow: SW	<b>AQUIFLOW   68791</b>
<b>1/2 - 1 Mile</b>		Shallow Water Depth: 9.4	
<b>Lower</b>		Deep Water Depth: 11	
		Average Water Depth: Not Reported	
		Date: 05/09/1996	

<b>31</b>		Site ID: 01-1436	
<b>NNE</b>		Groundwater Flow: W	<b>AQUIFLOW   67884</b>
<b>1/2 - 1 Mile</b>		Shallow Water Depth: Not Reported	
<b>Higher</b>		Deep Water Depth: Not Reported	
		Average Water Depth: 7.10	
		Date: 09/28/1989	

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
94580	6	0	0.00

Federal EPA Radon Zone for ALAMEDA 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 ALAMEDA COUNTY, CA

Number of sites tested: 49

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.776 pCi/L	100%	0%	0%
Living Area - 2nd Floor	-0.400 pCi/L	100%	0%	0%
Basement	1.338 pCi/L	100%	0%	0%

# 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.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> 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 Services

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 Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, 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 Health Services

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 C**

## **INTERVIEW AND REGULATORY AGENCY DOCUMENTATION**

Mehagan,

Yesterday, I met with Henry Kusaba, State of Ca. Military Dept. Senior Land Agent (916-854-3322), Chris Markowski, PG, State of Ca. Military Dept. Environmental Programs (916-369-4327) and Brad Steen to discuss the current plans for the Environmental Assessment Request and Geotechnical Report process.

While, I have no personal knowledge of this site, it was mentioned yesterday the State replaced the underground gas tanks around 1990-1992. It was also indicated there may be additional geotechnical studies regarding the current Freeway lane expansions project. (Directly adjacent the site)

I will share your attached questionnaire with our office and confirm if we can answer any of the questions listed. If Sgt. Cain is unable to provide adequate responses, I would suggest you contact Henry Kusaba and ask him to assist if possible in getting the required responses needed.

During yesterdays meeting Henry requested that your office mark the proposed boring locations on site. We will need this to occur ASAP and then request the State Military Office approve the specific boring locations so State Military Offices may provide a permit to commence the boring operations. Chris Markowski would also like a map of the requested boring locations to be provided to his office if possible. (Similar to aerial photo map provided previously by Jim Lehrman)

Lastly, we do not want any one to go on to the site without first contacting Sgt. Cain and making arrangements to work on site.

Thank you,

*David Estrada*

*Construction Manager*

*San Lorenzo Unified School District*

*Phone 510-317-4842*

*Cell 209-321-4948*

**[destrada@slzsd.org](mailto:destrada@slzsd.org)**

---

**From:** Mehagan Hopkins [mailto:MHopkins@kleinfelder.com]

**Sent:** Monday, July 20, 2009 3:40 PM

**To:** Estrada, David

**Subject:** Questionnaire

David,

Attached is the interview questionnaire. I'm going to be doing the site visit with Sgt. Cain tomorrow, so I can take care of the interview with him at that time. I'd appreciate it if you could take a stab at filling in the questionnaire as well. If you don't know the answer to any questions please go ahead and put that down. The most important questions are on the final page.

Regards,

Mehagan

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4670 Willow Road #100  
Pleasanton, CA  
94588  
p| 925.484.1700  
f| 925.484.5838  
kleinfelder.com

July 15, 2009

San Francisco Bay Regional Water Board  
1515 Clay Street #1400  
Oakland, California 94612  
Fax Number: (510) 622-2460

Attn: Melinda Wong

**SUBJECT:** File Review Request: 16501 Ashland Avenue, San Lorenzo

Kleinfelder has been retained to perform a Phase I Environmental Site Assessment of the above referenced property. I am interested in any information your department may have on hazardous substances generated or stored at the site, UST permits, as well as any hazardous materials releases that may have occurred.

I would like to review the file, if any, for this property as soon as possible. Thank you for your assistance. Please call me at 925-484-1700, ext. 408 if you have any questions.

Sincerely,

**KLEINFELDER WEST, INC.**

A handwritten signature in black ink, appearing to read "Mehagan Hopkins", with a long horizontal flourish extending to the right.

Mehagan Hopkins  
Staff Biologist  
Kleinfelder West, Inc.  
4670 Willow Road #100  
Pleasanton, CA 94588  
Phone: (925) 484-1700



# TELEPHONE CONVERSATION RECORD

COPIES TO: _____
_____
_____
_____
_____
_____

DATE 7/22/09 TIME \_\_\_\_\_  A.M.  P.M.

TO  FROM Melinda Wong

COMPANY RWQCB

ADDRESS \_\_\_\_\_ PHONE NO. \_\_\_\_\_

PROJECT NAME SLUSD-National Guard PROJECT NO. 105205

A case exists for this site, but RWQCB  
is not the lead agency. Files should be  
requested from the county.

RECORDED BY \_\_\_\_\_



4670 Willow Road #100  
Pleasanton, CA  
94588  
p| 925.484.1700  
f| 925.484.5838  
kleinfelder.com

July 15, 2009

ALAMEDA COUNTY  
Community Development Agency  
Planning Department  
Fax Number: 510-785-8793

**SUBJECT:** File Review Request: 16501 Ashland Avenue, San Lorenzo

Kleinfelder has been retained to perform a Phase I Environmental Site Assessment of the above referenced property. I am interested in any information your department may have on building permits or inspections, particularly as they relate to hazardous substances generated or stored at the site, UST permits, or any hazardous materials releases that may have occurred.

I would like to review the file, if any, for this property as soon as possible. Thank you for your assistance. Please call me at 925-484-1700, ext. 4530 if you have any questions.

Sincerely,

**KLEINFELDER WEST, INC.**

A handwritten signature in black ink, appearing to read "Mehagan Hopkins", with a long horizontal flourish extending to the right.

Mehagan Hopkins  
Staff Biologist  
Kleinfelder West, Inc.  
4670 Willow Road #100  
Pleasanton, CA 94588  
Phone: (925) 484-1700



4670 Willow Road #100  
Pleasanton, CA  
94588  
p| 925.484.1700  
f| 925.484.5838  
kleinfelder.com

July 15, 2009

ALAMEDA COUNTY  
FIRE DEPARTMENT  
835 East 14th Street, Suite 200,  
San Leandro, California 94577  
Fax Number: 510-618-3445

**SUBJECT:** File Review Request: 16501 Ashland Avenue, San Lorenzo

Kleinfelder has been retained to perform a Phase I Environmental Site Assessment of the above referenced property. I am interested in any information your department may have on hazardous substances generated or stored at the site, UST permits, as well as any hazardous materials releases that may have occurred.

I would like to review the file, if any, for this property as soon as possible. Thank you for your assistance. Please call me at 925-484-1700, ext. 408 if you have any questions.

Sincerely,

**KLEINFELDER WEST, INC.**

A handwritten signature in black ink, appearing to read "Mehagan", followed by a long horizontal line extending to the right.

Mehagan Hopkins  
Staff Biologist  
Kleinfelder West, Inc.  
4670 Willow Road #100  
Pleasanton, CA 94588  
Phone: (925) 484-1700





4670 Willow Road #100  
Pleasanton, CA  
94588  
p| 925.484.1700  
f| 925.484.5838  
kleinfelder.com

July 15, 2009

ALAMEDA COUNTY  
ENVIRONMENTAL HEALTH  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
Fax Number: (510) 337-9335

**SUBJECT:** File Review Request: 16501 Ashland Avenue, San Lorenzo

Kleinfelder has been retained to perform a Phase I Environmental Site Assessment of the above referenced property. I am interested in any information your department may have on hazardous substances generated or stored at the site, UST permits, as well as any hazardous materials releases that may have occurred.

I would like to review the file, if any, for this property as soon as possible. Thank you for your assistance. Please call me at 925-484-1700, ext. 4530 if you have any questions.

Sincerely,

**KLEINFELDER WEST, INC.**

A handwritten signature in black ink, appearing to read "Mehagan Hopkins", with a long horizontal flourish extending to the right.

Mehagan Hopkins  
Staff Biologist  
Kleinfelder West, Inc.  
4670 Willow Road #100  
Pleasanton, CA 94588  
Phone: (925) 484-1700



FAX COVER SHEET

To: Lisa Dowdy
Name
OSFM
Company
Address or branch office
916-445-8526
Fax number

Date: 7/16/09

Total Pages (including cover sheet): 2

From: Mehagan Hopkins - Staff Biologist
Name
mhopkins@kleinfelder.com
e-mail

KLEINFELDER

4670 Willow Road, Suite 100

Pleasanton, CA 94588-8587

925-484-1700 ext. 4530

925-484-2977

Fax

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Original Will Follow: [ ]

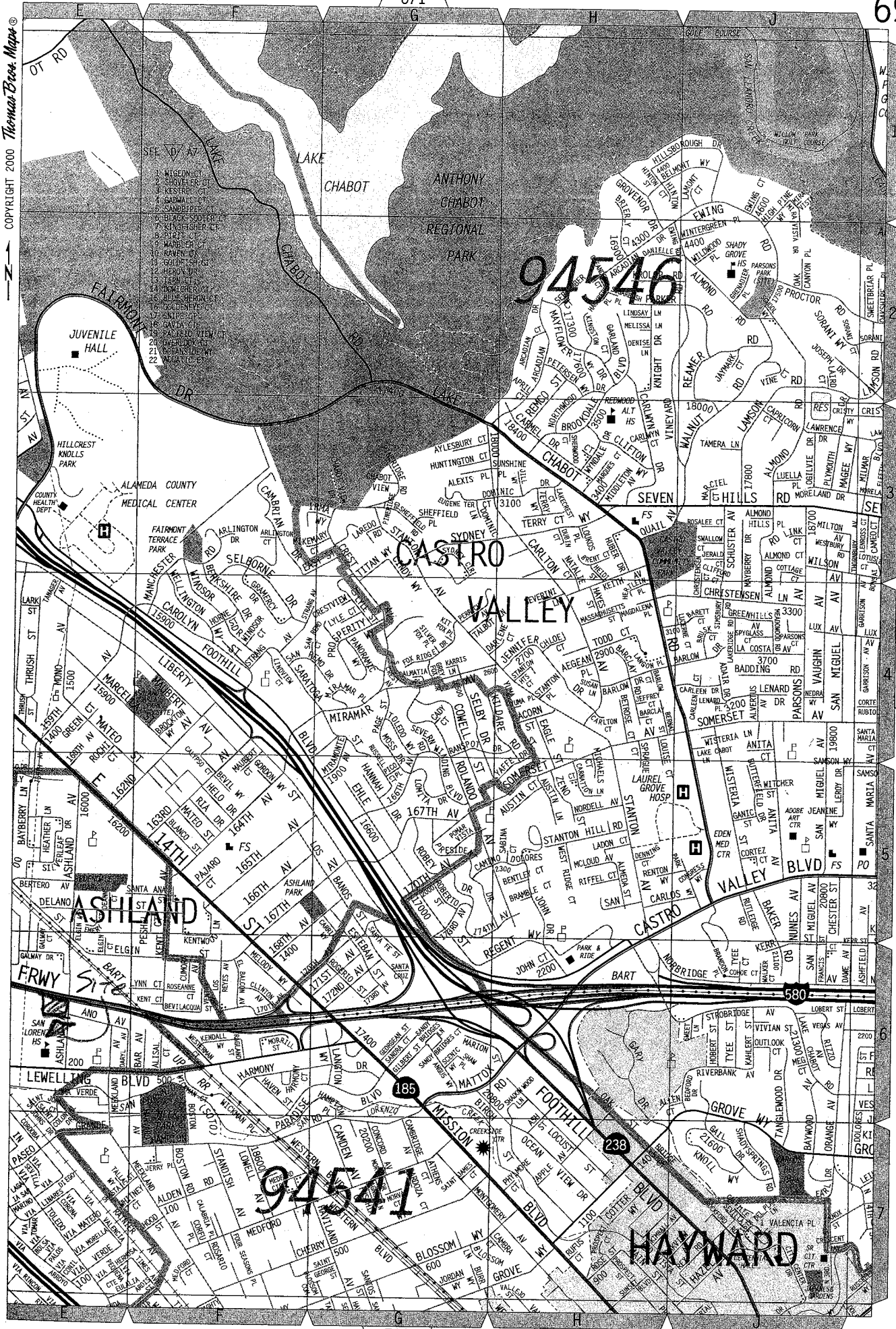
Original Will Not Follow: [ ]

Subject: Pipeline Location Request

Special Instructions:

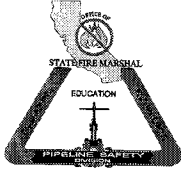
Location: 16501 Ashland Avenue, San Lorenzo, CA 94580
Thomas Guide - Alameda County, Pg. 691 Grid E-6
See Attached Map

COPYRIGHT 2000 Thomas Bros. Maps®



ALAMEDA CO.

SEE 692 MAP



## Office of the State Fire Marshal

Pipeline Safety Division

P.O. Box 944246  
Sacramento, CA 94244-2460

Request ID: 07162009SFM004

TO: KLEINFELDER  
MEHAGAN HOPKINS  
4670 WILLOW ROAD #100  
PLEASANTON, CA 94588

FROM: Lisa Dowdy

Phone: (916) 445-8477

Fax: (916) 445-8526

Phone: 925 484 1700

Fax: 925 484 2977

---

### PIPELINE LOCATION REQUEST FOR:

**16501 ASHLAND AVENUE  
SAN LORENZO, CA 94580**

ALAMEDA Thomas Brothers Book  
Page 691, Grid E6

---

THERE ARE NO PIPELINES JURISDICTIONAL TO THE STATE FIRE MARSHAL IN THE AREA FOR WHICH YOU HAVE INQUIRED.

- FOR NATURAL GAS PIPELINES PLEASE CONTACT YOUR LOCAL GAS COMPANY

- FOR OTHER TYPES OF PIPELINE PLEASE CONTACT THE DIVISION OF OIL AND GAS AT  
(714) 816-6847

- FOR PUBLIC UTILITIES PLEASE CONTACT THE PUBLIC UTILITIES COMMISSION AT (415)  
703-2782

# **APPENDIX D**

**HISTORICAL RESEARCH DOCUMENTATION**



**SLUSD**

16501 Ashland Avenue  
San Lorenzo, CA 94580

Inquiry Number: 2542549.5  
July 22, 2009

## The EDR Aerial Photo Decade Package

# EDR Aerial Photo Decade Package

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. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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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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**Date EDR Searched Historical Sources:**

Aerial Photography July 22, 2009

**Target Property:**16501 Ashland Avenue  
San Lorenzo, CA 94580

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1939	Aerial Photograph. Scale: 1"=555'	Flight Year: 1939	Fairchild
1946	Aerial Photograph. Scale: 1"=655'	Flight Year: 1946	Jack Ammann
1958	Aerial Photograph. Scale: 1"=555'	Flight Year: 1958	Cartwright
1965	Aerial Photograph. Scale: 1"=333'	Flight Year: 1965	Cartwright
1974	Aerial Photograph. Scale: 1"=601'	Flight Year: 1974	NASA
1982	Aerial Photograph. Scale: 1"=690'	Flight Year: 1982	USGS
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS
2005	Aerial Photograph. 1" = 604'	Flight Year: 2005	EDR





**INQUIRY #:** 2542549.5

**YEAR:** 1939

| = 555'





INQUIRY #: 2542549.5

YEAR: 1946

|—————| = 655'





**INQUIRY #:** 2542549.5

**YEAR:** 1958

|—————| = 555'





**INQUIRY #:** 2542549.5

**YEAR:** 1965

|—————| = 333'





INQUIRY #: 2542549.5

YEAR: 1974

| = 601'





INQUIRY #: 2542549.5

YEAR: 1982

| = 690'





**INQUIRY #:** 2542549.5

**YEAR:** 1993

| = 666'





INQUIRY #: 2542549.5

YEAR: 1998

| = 666'

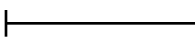






**INQUIRY #:** 2542549.5

**YEAR:** 2005

 = 604'





**SLUSD**

16501 Ashland Avenue  
San Lorenzo, CA 94580

Inquiry Number: 2542549.3  
July 15, 2009

## Certified Sanborn® Map Report

# Certified Sanborn® Map Report

7/15/09

**Site Name:**

SLUSD  
16501 Ashland Avenue  
San Lorenzo, CA 94580

**Client Name:**

Kleinfelder, Inc.  
4670 Willow Road  
Pleasanton, CA 94588



EDR Inquiry # 2542549.3

Contact: Mehagan Hopkins

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Kleinfelder, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

## Certified Sanborn Results:

**Site Name:** SLUSD  
**Address:** 16501 Ashland Avenue  
**City, State, Zip:** San Lorenzo, CA 94580  
**Cross Street:**  
**P.O. #** R10365  
**Project:** NA  
**Certification #** 24F0-4659-A00A



Sanborn® Library search results  
Certification # 24F0-4659-A00A

## UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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**SLUSD**

16501 Ashland Avenue  
San Lorenzo, CA 94580

Inquiry Number: 2542549.6  
July 15, 2009

# The EDR-City Directory Abstract

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## 2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

**City Directory Report.** Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.
2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.
3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

**Options for Selecting Adjoining Properties.** Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.
2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.
3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.
4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit [www.edrnet.com/2009enhancements](http://www.edrnet.com/2009enhancements)

## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2006. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2006	Haines Company, Inc.	-	-	-	-
2002	Haines	-	X	X	-
	R. L. Polk & Co.	-	X	X	-
2000	Pacific Bell	-	-	-	-
1996	PACIFIC BELL DIRECTORY	-	-	-	-
1993	Pacific Bell	-	-	-	-
1992	PACIFIC BELL DIRECTORY	-	-	-	-
1991	PACIFIC BELL WHITE PAGES	-	-	-	-
1986	Pacific Bell	-	X	X	-
	PACIFIC BELL WHITE PAGES	-	X	X	-
1984	Pacific Bell	-	X	X	-
1982	Pacific Telephone	X	X	X	-
1980	Pacific Telephone	-	X	X	-
1979	Pacific Telephone	X	X	X	-
1976	R. L. Polk & Co.	X	X	X	-
1975	Pacific Telephone	-	X	X	-
1973	Pacific Telephone	-	X	X	-
1970	Pacific Telephone Directory	X	X	X	-
1967	R. L. Polk Co.	-	-	-	-
1965	R. L. Polk & Co.	-	X	X	-
1962	Pacific Telephone	-	X	X	-
1960	Pacific Telephone	X	X	X	-
1959	R. L. Polk & Co.	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-

## EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1954	R. L. Polk & Co. of California	-	-	-	-
1951	R. L. Polk & Co.	-	-	-	-
1950	The Pacific Telephone & Telegraph Co.	-	-	-	-
1946	R. L. Polk & Co.	-	-	-	-
1945	The Pacific Telephone & Telegraph Co.	-	-	-	-
1943	R. L. Polk & Co.	-	-	-	-
1940	R. L. Polk & Co.	-	-	-	-
1938	Pacific Telephone	-	-	-	-
1933	R. L. Polk & Co.	-	-	-	-
1932	R. L. Polk & Co. of California	-	-	-	-
1928	R.L. Polk and Co of California	-	-	-	-
1926	R. L. Polk & Co.	-	-	-	-
1925	R. L. Polk & Co. of California	-	-	-	-
1920	R. L. Polk & Co. of California	-	-	-	-



# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

16501 Ashland Avenue  
San Lorenzo, CA 94580

### FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1982	CALIFORNIA STATE OF	Pacific Telephone
1979	CO D	Pacific Telephone
1976	CO D	R. L. Polk & Co.
1970	CALIFORNIA STATE OF	Pacific Telephone Directory
1960	BOARD OF EQUALIZATION	Pacific Telephone

## FINDINGS

### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

#### ANO AVE

##### **205 ANO AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	KAWAHARAIsami	Haines
	KAWAHARAIsami	R. L. Polk & Co.

##### **208 ANO AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	OTALAVERAJose	Haines
	OTALAVERAJose	R. L. Polk & Co.
1976	KUJAWSKI NORMAN R	R. L. Polk & Co.

##### **216 ANO AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	CARABALLOVenlura	R. L. Polk & Co.
	CARABALLOVenlura	Haines

##### **224 ANO AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	CUESTASMaro	Haines
	CUESTASMaro	R. L. Polk & Co.
1982	SHEARON EDWARD G SAN LORENZO	Pacific Telephone
1970	WOODS DONALD M SAN LEANDROZ	Pacific Telephone Directory
1960	GONSALVES ALFRED	Pacific Telephone

##### **232 ANO AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	SMITH Leslie	R. L. Polk & Co.
	SMITH Leslie	Haines
1960	CAYWOOD JERRY	Pacific Telephone

##### **240 ANO AVE**

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	OHAGLEPaul	R. L. Polk & Co.
	OHAGLEPaul	Haines

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1979	HAGLE PAUL	Pacific Telephone
1976	HAGLE PAUL	R. L. Polk & Co.
1973	HAGLE PAUL	Pacific Telephone
1960	HAGLE PAUL	Pacific Telephone

### 248 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	NASHR	R. L. Polk & Co.
	NASHR	Haines
1976	JASYEN WNI H	R. L. Polk & Co.
1975	JASVEN WM H	Pacific Telephone
1973	JASVEN WM H	Pacific Telephone
1970	JASVEN WM H SAN LEANDROZ	Pacific Telephone Directory
1960	JASVEN WM H	Pacific Telephone

### 255 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1982	KAWAHARA ISAMI SAN LORENZO	Pacific Telephone
1973	KAWAHARA ISAM I	Pacific Telephone

### 256 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	LUKENSRich	Haines
	OLUKEN	Haines
	OLUKEN	R. L. Polk & Co.
	LUKENSRich	R. L. Polk & Co.
1982	LUKENS RICH & LINDA SAN LORENZO	Pacific Telephone
1979	LUKENS RICHMOND & LINDA	Pacific Telephone
1960	OGLESBY FRANK	Pacific Telephone

### 263 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	BELLINGEREM	Haines
	BELLINGEREM	R. L. Polk & Co.
1982	BELLINGER E M SAN LORENZO	Pacific Telephone
1979	BELLINGER EM	Pacific Telephone
1976	BELLI NGER E M	R. L. Polk & Co.
1973	BELLI NGER EILEEN M	Pacific Telephone
1960	BELLINGER EILEEN NM	Pacific Telephone

## FINDINGS

### 264 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	CAMPOSMana	R. L. Polk & Co.
	CAMPOSMana	Haines
1960	MYERS PAUL J	Pacific Telephone

### 271 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	DAVIDJoel	Haines
	DAVIDJoel	R. L. Polk & Co.
1982	HARMAN ALBERT L SAN LORENZO	Pacific Telephone
1973	HARMAN ALBERT L	Pacific Telephone
1960	HARMAN ALBERT L	Pacific Telephone

### 272 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	HOOKS LILY MRS	Pacific Telephone

### 279 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	WIRTA Palrick	R. L. Polk & Co.
	WIRTA Palrick	Haines
1960	KOZEL JOHN	Pacific Telephone

### 280 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	PADGETTHarvey	Haines
	PADGETTHarvey	R. L. Polk & Co.
1982	STITES DAVID SAN LORENZO	Pacific Telephone
1973	PEDIGO MICHAEL D DR CHIRPRCTR	Pacific Telephone
1960	CANADY WM F	Pacific Telephone

### 287 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	GUERREROJuan	R. L. Polk & Co.
	GUERREROJuan	Haines
1982	CLEVELAND BURTON C SAN LORENZO	Pacific Telephone
1979	CLEVELAND BURTON C	Pacific Telephone
1976	CLEVELAND BURTON C	R. L. Polk & Co.
1973	CLEVELAND BURTON C	Pacific Telephone

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	ROMAN ANGIE	Pacific Telephone

### 288 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	EISENBERGMark	Haines
	EISENBERGMark	R. L. Polk & Co.
1976	CRACKNELL JOHN J JR	R. L. Polk & Co.
	CRACKNELL C	R. L. Polk & Co.
1973	CRACKNELL JOHN J JR	Pacific Telephone
1960	CRACKNELL JOHN J JR	Pacific Telephone

### 295 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	SOOKKASIKONP	Haines
	SOOKKASIKONP	R. L. Polk & Co.
1982	SOOKKAFIKON PAITON SAN LORENZO	Pacific Telephone
1975	NORDMAN RON J	Pacific Telephone
1973	NARDMAN RON J	Pacific Telephone
1960	LEGER B VW	Pacific Telephone

### 296 ANO AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	ALDERSON Lawrence	R. L. Polk & Co.
	ALDERSON Lawrence	Haines
1960	MC GARRY JOS T JR	Pacific Telephone

### ASHLAND AVE

#### 16401 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	RUSSELL JIM	R. L. Polk & Co.

#### 16409 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	MADISON RAY	Pacific Telephone

#### 16411 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	GRCIA JULIO	R. L. Polk & Co.
1960	RICHARDSON JOYCE	Pacific Telephone

## FINDINGS

### 16413 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	KEPHARD WILLARD	R. L. Polk & Co.
	KEPHARD TILLIE	R. L. Polk & Co.
1960	POWELL AMELIA	Pacific Telephone

### 16414 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	SKADEN BERTHA E MRS	R. L. Polk & Co.
1960	SMITH FRANK	Pacific Telephone

### 16423 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	BIANCHI ANTLIHONY	Pacific Telephone

### 16425 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	MACE VICKIE	R. L. Polk & Co.
1960	SMITH OLLIE J	Pacific Telephone

### 16435 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	REPOSE LORRAINE	Pacific Telephone

### 16436 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	SAN LORENZO GLASS & WINDOW CO INC	R. L. Polk & Co.
1962	Blymyer Hansen Co The	Pacific Telephone

### 16440 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	GENESISDVLPMNTLSV	R. L. Polk & Co.
	HOWELLBlltye	Haines
	DYPRGRM	Haines
	GENESISDVLPMNTLSV	Haines
	HOWELLBlltye	R. L. Polk & Co.
	DYPRGRM	R. L. Polk & Co.
1979	PATIO PRODUCTS SATES	Pacific Telephone
	NORCAL POTTERY PRODUCTS INC	Pacific Telephone
	NIMA CORP	Pacific Telephone
1976	AMERICAN WEST DISTRIBUTING CO	R. L. Polk & Co.

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	SENCO PRODUCT INC	R. L. Polk & Co.
1962	Beaver & Johnson Moving Co	Pacific Telephone

### 16444 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	BARON BUILDERS	R. L. Polk & Co.
	BARON BUILDERS	Haines
1986	Baron Builders	PACIFIC BELL WHITE PAGES
1982	BARON BUILDERS SAN LORENZO	Pacific Telephone
1979	PHILLIPS DEAN PICTURE FRAMING RETL	Pacific Telephone
	DEAN PHILLIPS PICTURE FRAMING RETL	Pacific Telephone
1976	DEAN PHILLIPS PICTURE FRAMING RETL	R. L. Polk & Co.
	PH ILLIPS DEAN PICTURE FRAMING RETL	R. L. Polk & Co.
1973	PHILLIPS DEAN PICTURE FRAMING RETL	Pacific Telephone
	DEAN PHILLIPS PICTURE FRAMING RETL	Pacific Telephone
1965	ALAMEDA COUNTY PLUMBING INC	R. L. Polk & Co.
1962	Alameda County Plumbing Inc	Pacific Telephone

### 16445 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	GOINS KENNETH G	R. L. Polk & Co.
1960	FRANCIS ALFRED	Pacific Telephone

### 16446 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	TAYLOR Richard	R. L. Polk & Co.
	GEARW 3 KSIMPRT	R. L. Polk & Co.
	DOMTRNSEXCH	R. L. Polk & Co.
	TAYLOR Richard	Haines
	GEARW 3 KSIMPRT	Haines
	DOMTRNSEXCH	Haines
1982	LI JOEL CONSTRUCTION CO SAN LORENZO	Pacific Telephone
1979	LI JOEL CONSTRUCTION CO	Pacific Telephone

## FINDINGS

### 16450 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	ACT 10 N ALARMS	Haines
	ACT 10 N ALARMS	R. L. Polk & Co.

### 16464 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	OMEOLOHelen	R. L. Polk & Co.
	OMEOLOHelen	Haines
1976	MELLO FRANK	R. L. Polk & Co.
1973	MELLO FRANK	Pacific Telephone
1965	MELLO FRANK	R. L. Polk & Co.

### 16467 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	XXXX	Haines
	XXXX	R. L. Polk & Co.
1982	JUNCTION NURSERY SAN LORENZO	Pacific Telephone
1979	JUNCTION NURSERY	Pacific Telephone
1976	JUNCTION NURSERY	R. L. Polk & Co.
1973	JUNCTION NURSERY	Pacific Telephone
1965	JUNCTION NURSERY	R. L. Polk & Co.
1960	JUNCTIONNURSERY	Pacific Telephone

### 16477 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	4TH E	Haines
	4TH E	R. L. Polk & Co.

### 16480 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	XXXX	R. L. Polk & Co.
	XXXX	Haines
1973	OAKLAND FENCE SUPPLY INC	Pacific Telephone

### 16496 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	GOLDENBAYFENCE	R. L. Polk & Co.
	GOLDENBAYFENCE 510 27655 S	Haines
1986	LANGENDORF UNITED BAKERS	Pacific Bell
1984	LANGENDORF UNITED BAKERS	Pacific Bell



## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1982	LANGENDORF CAKE & COOKIES SAN LORENZO	Pacific Telephone
	LANGENDORF UNITED BAKERS    SAN LORENZO	Pacific Telephone
1979	LANGENDORF CAKE & COOKIES	Pacific Telephone
	LANGENDORF UNITED BAKERS	Pacific Telephone
1976	LANGENDORF UNITED BAKERS	R. L. Polk & Co.
	LANGENDORF CAKE & COOKIES	R. L. Polk & Co.
1973	LANGENDORF CAKE & COOKIES	Pacific Telephone
	LANGENDORF UNITED BAKERS	Pacific Telephone
1970	AMERICAN BAKERIES CO    SAN LEANDROZ	Pacific Telephone Directory
1965	HOMESTEAD BAKERY	R. L. Polk & Co.
	LANGENDORF UNITED BAKERIES	R. L. Polk & Co.
	LANGENDORF UNITED BAKERS	R. L. Polk & Co.
1962	Homestead Bakery	Pacific Telephone
1960	HOMESTEAD BAKERY	Pacific Telephone
	LANGENDORF CAKE & COOKIES	Pacific Telephone

### 16511 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	HAYWARD AREA RECREATION DISTRICT	R. L. Polk & Co.
	SAN LORENZO PARENT NURSERY SCHOOL	R. L. Polk & Co.
1960	SAN LORENZO PARENT NURSERY SCHOOL	Pacific Telephone

### 16515 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	XXXX	Haines
	XXXX	R. L. Polk & Co.
1982	HAYWARD AREA RECREATION & PARK DISTRICT    HAYWARD	Pacific Telephone
1976	HAYWARD SWIM CENTER	R. L. Polk & Co.

### 16550 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	KAWAHARA NURSERY	R. L. Polk & Co.
	KAWAHARAIsami	R. L. Polk & Co.
	KAWAHARAIsami	Haines
	KAWAHARA NU	Haines

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1982	KAWAHARA MOMOTARO SAN LORENZO	Pacific Telephone
1980	Kawahara Nursery	Pacific Telephone
	Kawahara Momotaro Kawahara Nursery	Pacific Telephone
	Kawahara Isami Kawahara Nursery	Pacific Telephone
1979	KAWAHARA MOMOTARO	Pacific Telephone
	KAWAHARA NURSERY	Pacific Telephone
1975	KAWAHARA NURSERY	Pacific Telephone
	KAWAHARA MOMOTARO KAWAHARA NURSERY	Pacific Telephone
	KAWAHARA ISAMI KAWAHARA NURSERY	Pacific Telephone
1973	KAWAHARA MOMOTARO	Pacific Telephone
1970	KAWAHARA NURSERY SAN LEANDROZ	Pacific Telephone Directory
	KAWAHARA MOMOTARO KAWAHARA NURSERY SAN LEANDROZ	Pacific Telephone Directory
1965	KAWAHARA NURSERY	R. L. Polk & Co.
	KAWAHARA MOMOTARO	R. L. Polk & Co.
1962	Kawahara Momotaro Kawahara Nrsry	Pacific Telephone
	Kawahara Nursery	Pacific Telephone
1960	KAWAHARA MOMOTARO	Pacific Telephone
	KAWAHARA NURSERY	Pacific Telephone

### 16600 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	MOURAGerald	Haines
	MOURAGerald	R. L. Polk & Co.
1982	MOURA GERALD SAN LORENZO	Pacific Telephone
1979	MOURA GERALD	Pacific Telephone
1965	MOURA GERALD	R. L. Polk & Co.
1960	MOURA GERALD	Pacific Telephone

### 16601 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	PATBICIOKa	Haines
	PATRICI	R. L. Polk & Co.
	PATRICI	Haines
	PATBICIOKa	R. L. Polk & Co.
1976	BERTOLA EDMIOND JR	R. L. Polk & Co.
1965	RANEY DON W	R. L. Polk & Co.

## FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1960	SORENSEN VIGGO G	Pacific Telephone

### 16605 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	LEEMchael	Haines
	LEEMchael	R. L. Polk & Co.
1979	GRAVES L	Pacific Telephone

### 16623 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	POWERSRchard	R. L. Polk & Co.
	POWERSRchard	Haines
1976	ABBOTT ORA L	R. L. Polk & Co.
1973	ABBOTT ORE L	Pacific Telephone
1965	ABBOTT ORA L	R. L. Polk & Co.
1962	Huisinga F W	Pacific Telephone
1960	HUISINGA FW	Pacific Telephone

### 16625 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	PRICE DONALD C	R. L. Polk & Co.
1960	MOORE LESLIE L	Pacific Telephone

### 16643 ASHLAND AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2002	MORRIS Anthony	R. L. Polk & Co.
	MORRIS Anthony	Haines
1982	CAMACHO V D SAN LORENZO	Pacific Telephone
1979	CAMACHO V D	Pacific Telephone
1976	CAMACHO V D	R. L. Polk & Co.
1973	CAMACHO V D	Pacific Telephone
1965	CANACHO V D	R. L. Polk & Co.
1960	CAMACHO V D	Pacific Telephone

## FINDINGS

### TARGET PROPERTY: ADDRESS NOT LISTED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not listed in the research source.

#### Address Researched

16501 Ashland Avenue

#### Address Not Listed in Research Source

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1975, 1973, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

### ADJOINING PROPERTY: ADDRESSES NOT LISTED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not listed in research source.

#### Address Researched

16401 ASHLAND AVE

#### Address Not Listed in Research Source

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

16409 ASHLAND AVE

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

16411 ASHLAND AVE

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

16413 ASHLAND AVE

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

16414 ASHLAND AVE

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

16423 ASHLAND AVE

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

16425 ASHLAND AVE

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

16435 ASHLAND AVE

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

16436 ASHLAND AVE

2006, 2002, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

16440 ASHLAND AVE

2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1975, 1973, 1970, 1967, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

16444 ASHLAND AVE

2006, 2000, 1996, 1993, 1992, 1991, 1984, 1980, 1975, 1970, 1967, 1960, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920





## FINDINGS

### Address Researched

295 ANO AVE

296 ANO AVE

### Address Not Listed in Research Source

2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1980, 1979, 1976, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920

2006, 2000, 1996, 1993, 1992, 1991, 1986, 1984, 1982, 1980, 1979, 1976, 1975, 1973, 1970, 1967, 1965, 1962, 1959, 1956, 1955, 1954, 1951, 1950, 1946, 1945, 1943, 1940, 1938, 1933, 1932, 1928, 1926, 1925, 1920



**SLUSD**

16501 Ashland Avenue  
San Lorenzo, CA 94580

Inquiry Number: 2542549.4  
July 16, 2009

# The EDR Historical Topographic Map Report



# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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# Historical Topographic Map



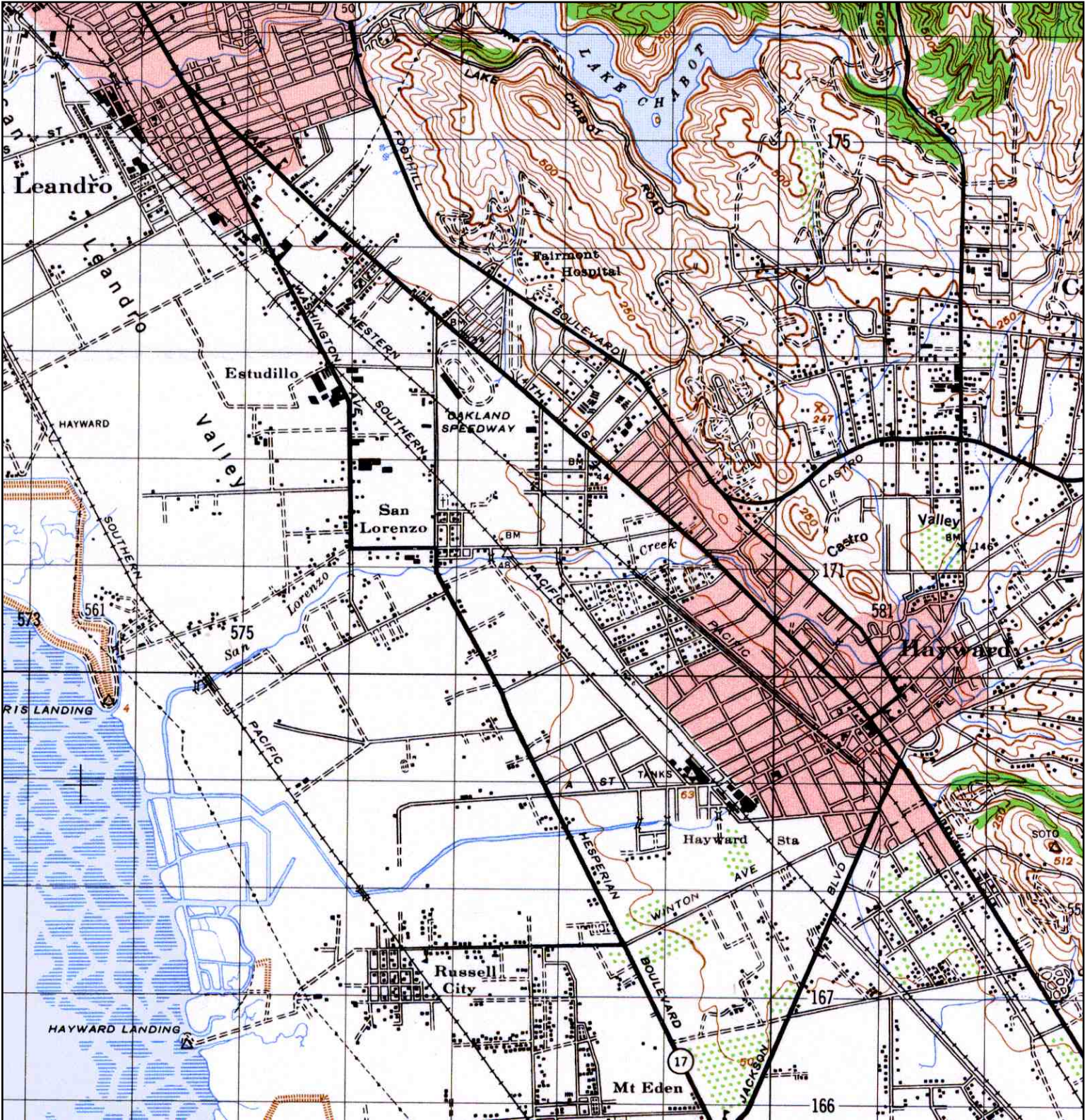
	TARGET QUAD	SITE NAME: SLUSD	CLIENT: Kleinfelder, Inc.
	NAME: HAYWARDS	ADDRESS: 16501 Ashland Avenue	CONTACT: Mehagan Hopkins
	MAP YEAR: 1899	San Lorenzo, CA 94580	INQUIRY#: 2542549.4
	SERIES: 15	LAT/LONG: 37.6893 / 122.119	RESEARCH DATE: 07/16/2009
	SCALE: 1:62500		

# Historical Topographic Map



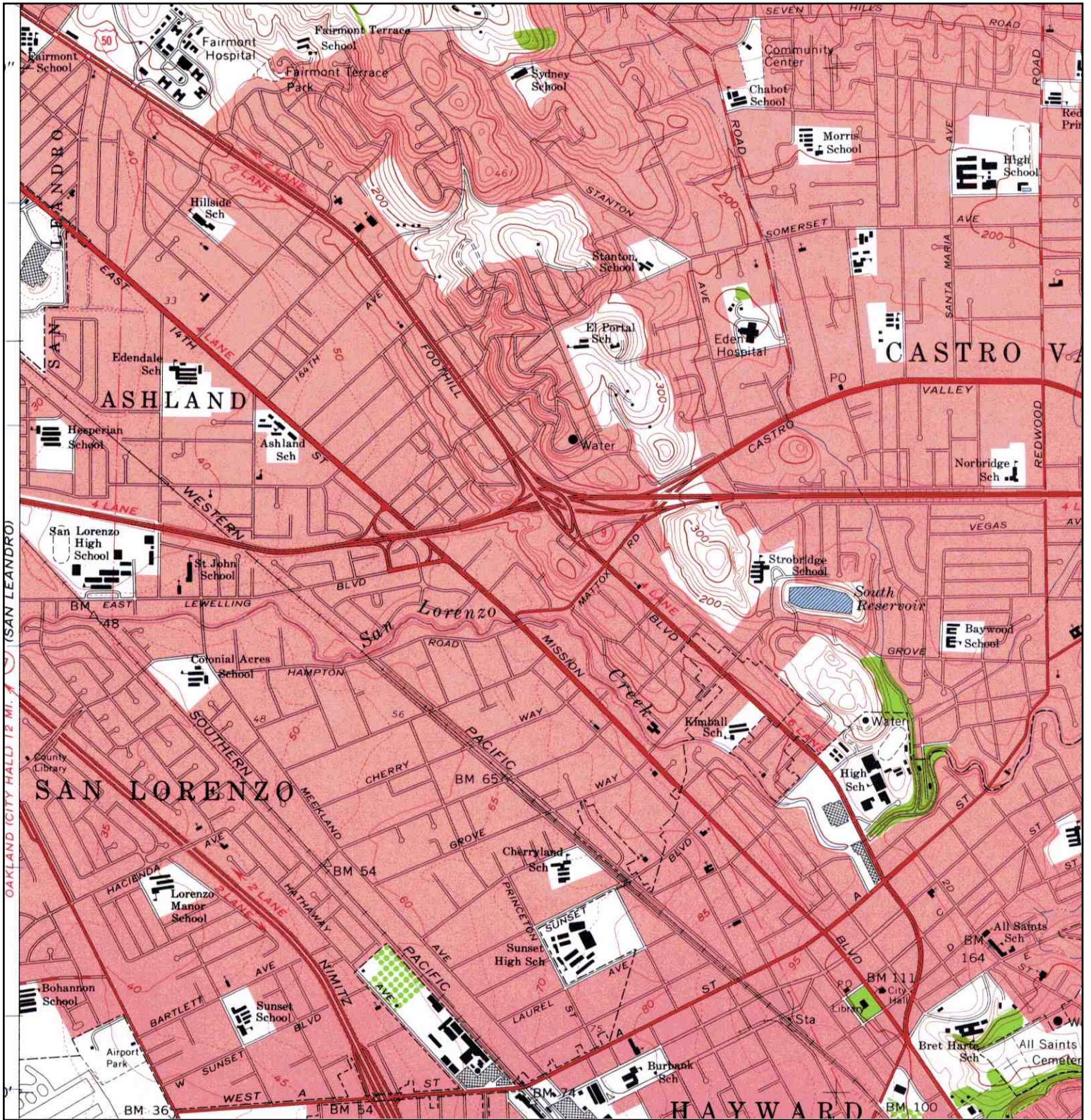
	TARGET QUAD	SITE NAME: SLUSD	CLIENT: Kleinfelder, Inc.
	NAME: HAYWARDS	ADDRESS: 16501 Ashland Avenue	CONTACT: Mehagan Hopkins
	MAP YEAR: 1899	San Lorenzo, CA 94580	INQUIRY#: 2542549.4
	PHOTOREVISED FROM: 1959	LAT/LONG: 37.6893 / 122.119	RESEARCH DATE: 07/16/2009
	SERIES: 15		
	SCALE: 1:62500		


# Historical Topographic Map



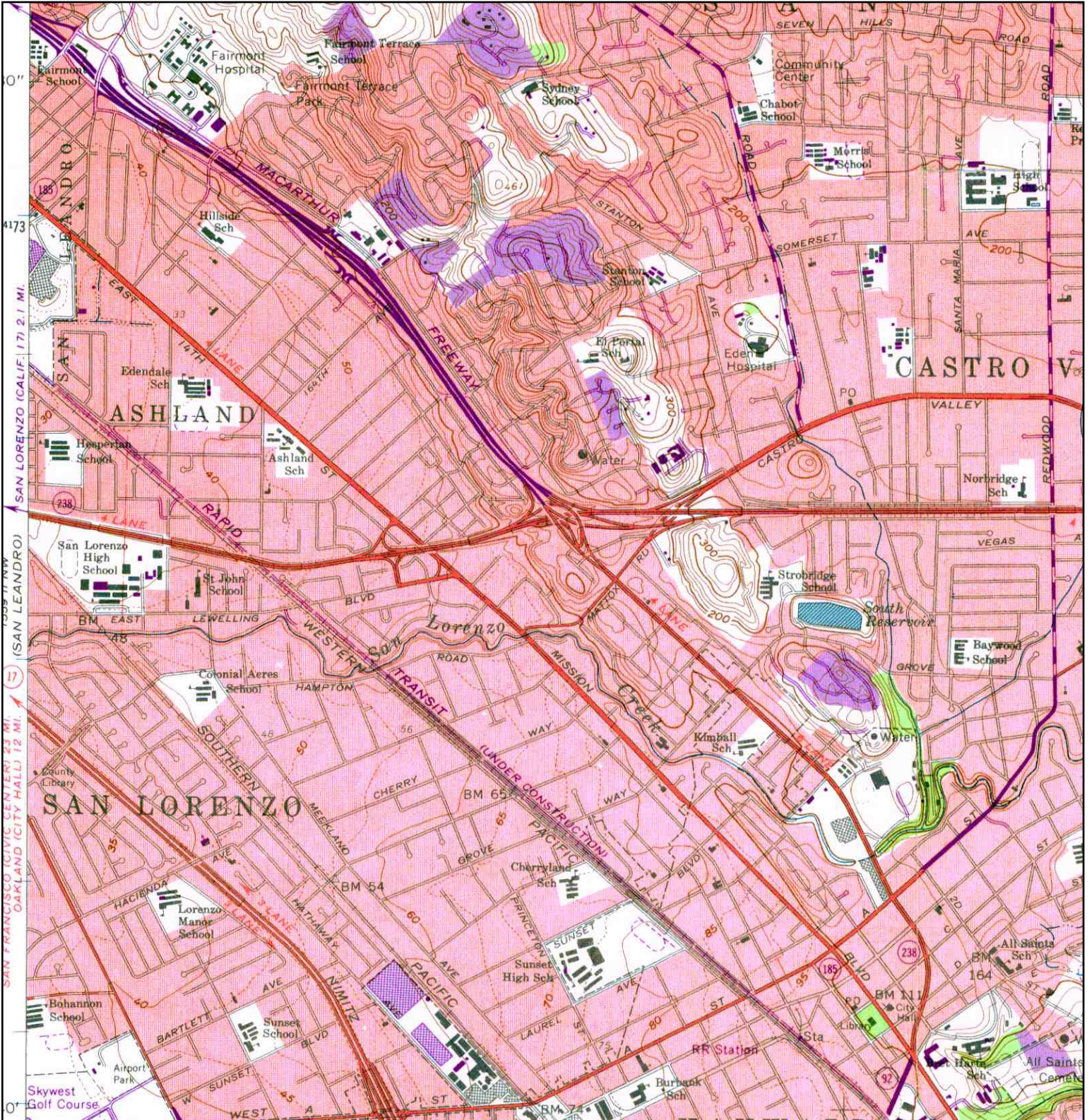
N ↑	TARGET QUAD NAME: HAYWARD MAP YEAR: 1948	SITE NAME: SLUSD ADDRESS: 16501 Ashland Avenue San Lorenzo, CA 94580 LAT/LONG: 37.6893 / 122.119	CLIENT: Kleinfelder, Inc. CONTACT: Mehagan Hopkins INQUIRY#: 2542549.4 RESEARCH DATE: 07/16/2009
	SERIES: 15 SCALE: 1:50000		

# Historical Topographic Map



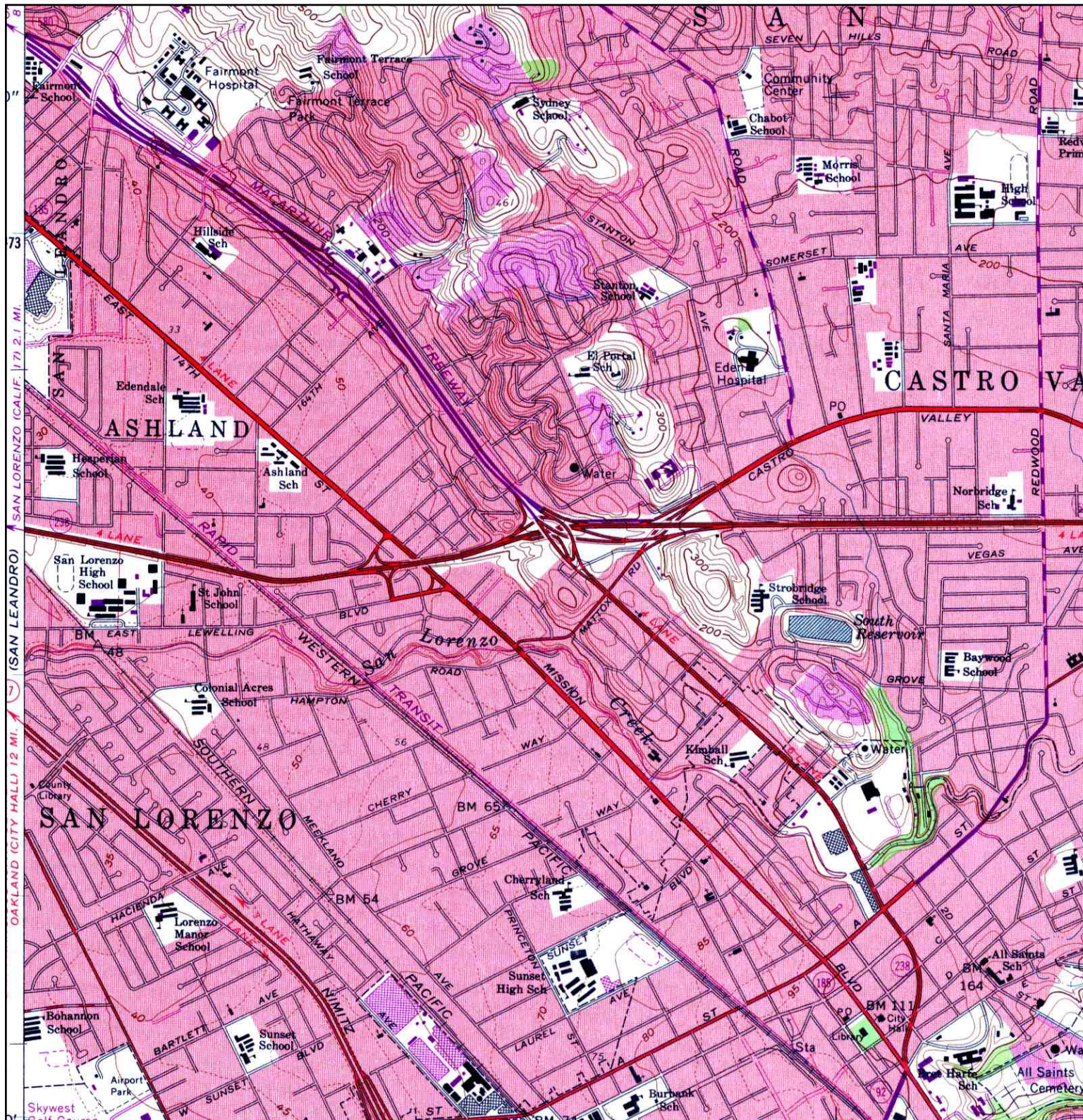
	<b>TARGET QUAD</b> NAME: HAYWARD MAP YEAR: 1959	<b>SITE NAME:</b> SLUSD <b>ADDRESS:</b> 16501 Ashland Avenue San Lorenzo, CA 94580 <b>LAT/LONG:</b> 37.6893 / 122.119	<b>CLIENT:</b> Kleinfelder, Inc. <b>CONTACT:</b> Mehagan Hopkins <b>INQUIRY#:</b> 2542549.4 <b>RESEARCH DATE:</b> 07/16/2009
	SERIES: 7.5 SCALE: 1:24000		


# Historical Topographic Map



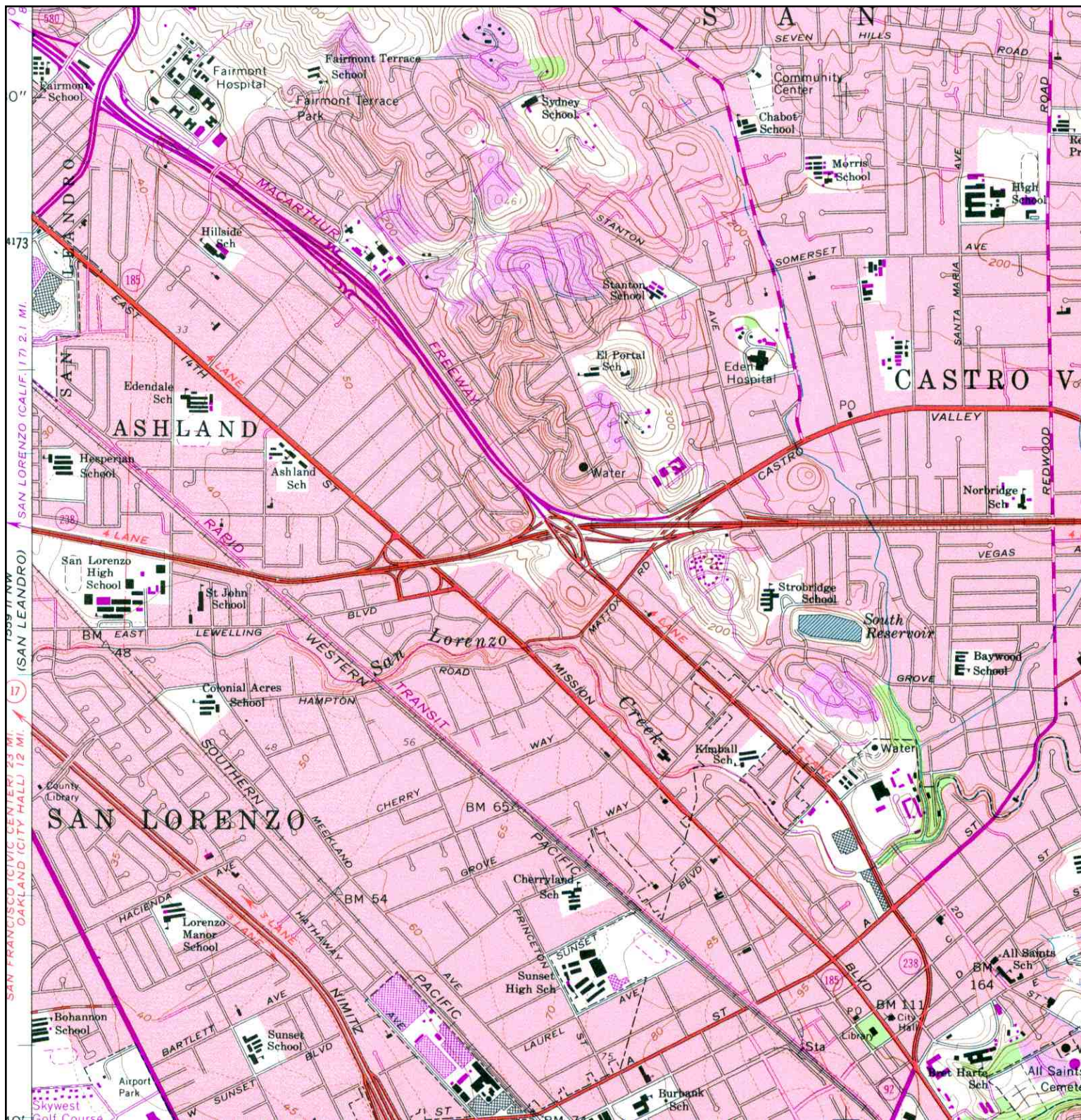
<p>N ↑</p>	TARGET QUAD	SITE NAME: SLUSD	CLIENT: Kleinfelder, Inc.
	NAME: HAYWARD	ADDRESS: 16501 Ashland Avenue	CONTACT: Mehagan Hopkins
	MAP YEAR: 1968	San Lorenzo, CA 94580	INQUIRY#: 2542549.4
	PHOTOREVISED FROM: 1959	LAT/LONG: 37.6893 / 122.119	RESEARCH DATE: 07/16/2009
	SERIES: 7.5		
	SCALE: 1:24000		

# Historical Topographic Map



	TARGET QUAD	SITE NAME:	SLUSD	CLIENT:	Kleinfelder, Inc.	
	NAME:	HAYWARD	ADDRESS:	16501 Ashland Avenue	CONTACT:	Mehagan Hopkins
	MAP YEAR:	1973		San Lorenzo, CA 94580	INQUIRY#:	2542549.4
	PHOTOREVISED FROM:	1959	LAT/LONG:	37.6893 / 122.119	RESEARCH DATE:	07/16/2009
	SERIES:	7.5				
	SCALE:	1:24000				

# Historical Topographic Map




	TARGET QUAD	SITE NAME: SLUSD	CLIENT: Kleinfelder, Inc.
	NAME: HAYWARD	ADDRESS: 16501 Ashland Avenue	CONTACT: Mehagan Hopkins
	MAP YEAR: 1980	San Lorenzo, CA 94580	INQUIRY#: 2542549.4
	PHOTOREVISED FROM: 1959	LAT/LONG: 37.6893 / 122.119	RESEARCH DATE: 07/16/2009
	SERIES: 7.5		
	SCALE: 1:24000		

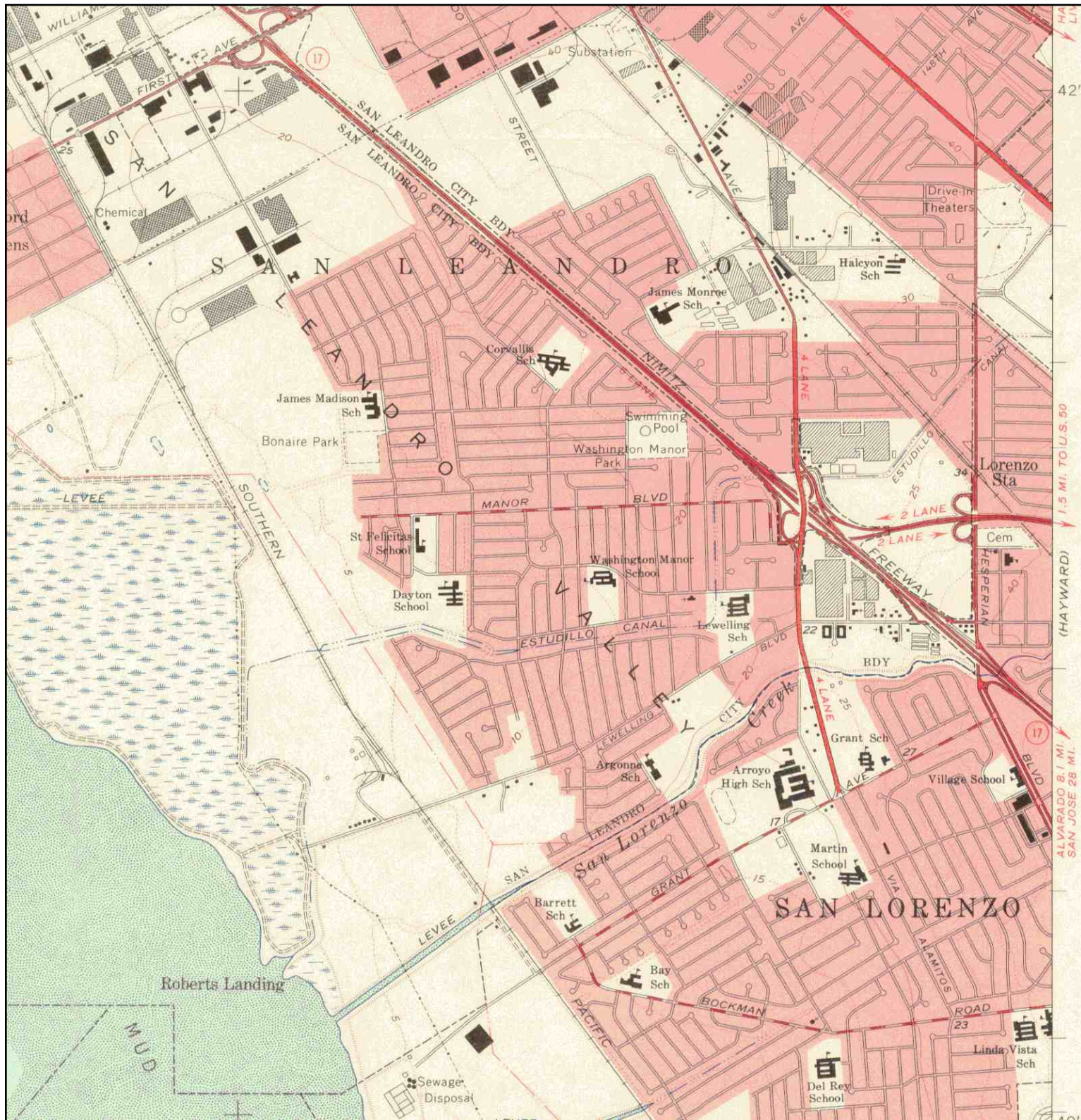


# Historical Topographic Map



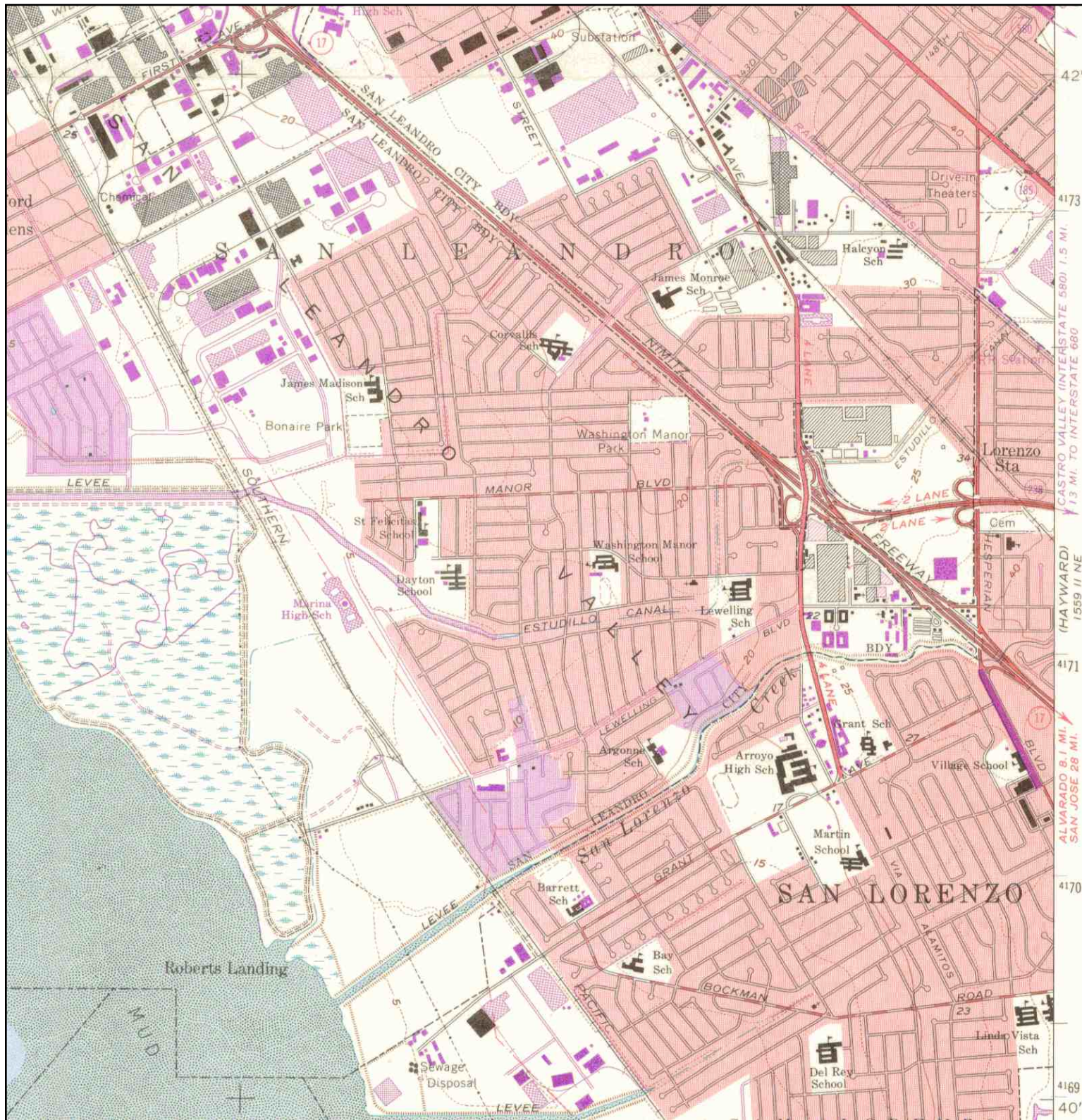
	ADJOINING QUAD NAME: SAN LEANDRO MAP YEAR: 1948	SITE NAME: SLUSD ADDRESS: 16501 Ashland Avenue San Lorenzo, CA 94580 LAT/LONG: 37.6893 / 122.119	CLIENT: Kleinfelder, Inc. CONTACT: Mehagan Hopkins INQUIRY#: 2542549.4 RESEARCH DATE: 07/16/2009
	SERIES: 7.5 SCALE: 1:24000		

# Historical Topographic Map



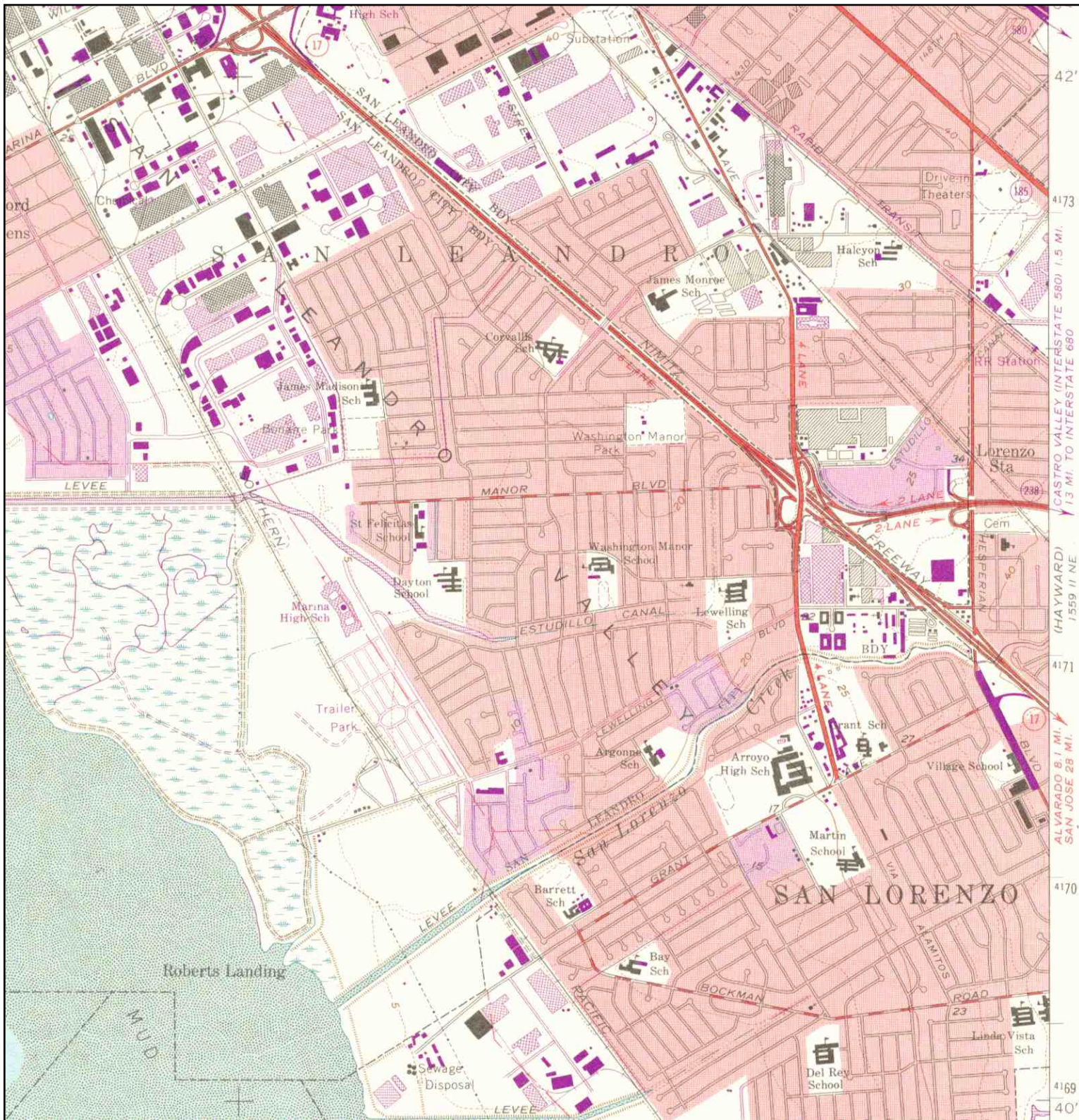
	ADJOINING QUAD	SITE NAME: SLUSD	CLIENT: Kleinfelder, Inc.
	NAME: SAN LEANDRO	ADDRESS: 16501 Ashland Avenue	CONTACT: Mehagan Hopkins
	MAP YEAR: 1959	SAN LORENZO, CA 94580	INQUIRY#: 2542549.4
SERIES: 7.5	LAT/LONG: 37.6893 / 122.119	RESEARCH DATE: 07/16/2009	
SCALE: 1:24000			

# Historical Topographic Map



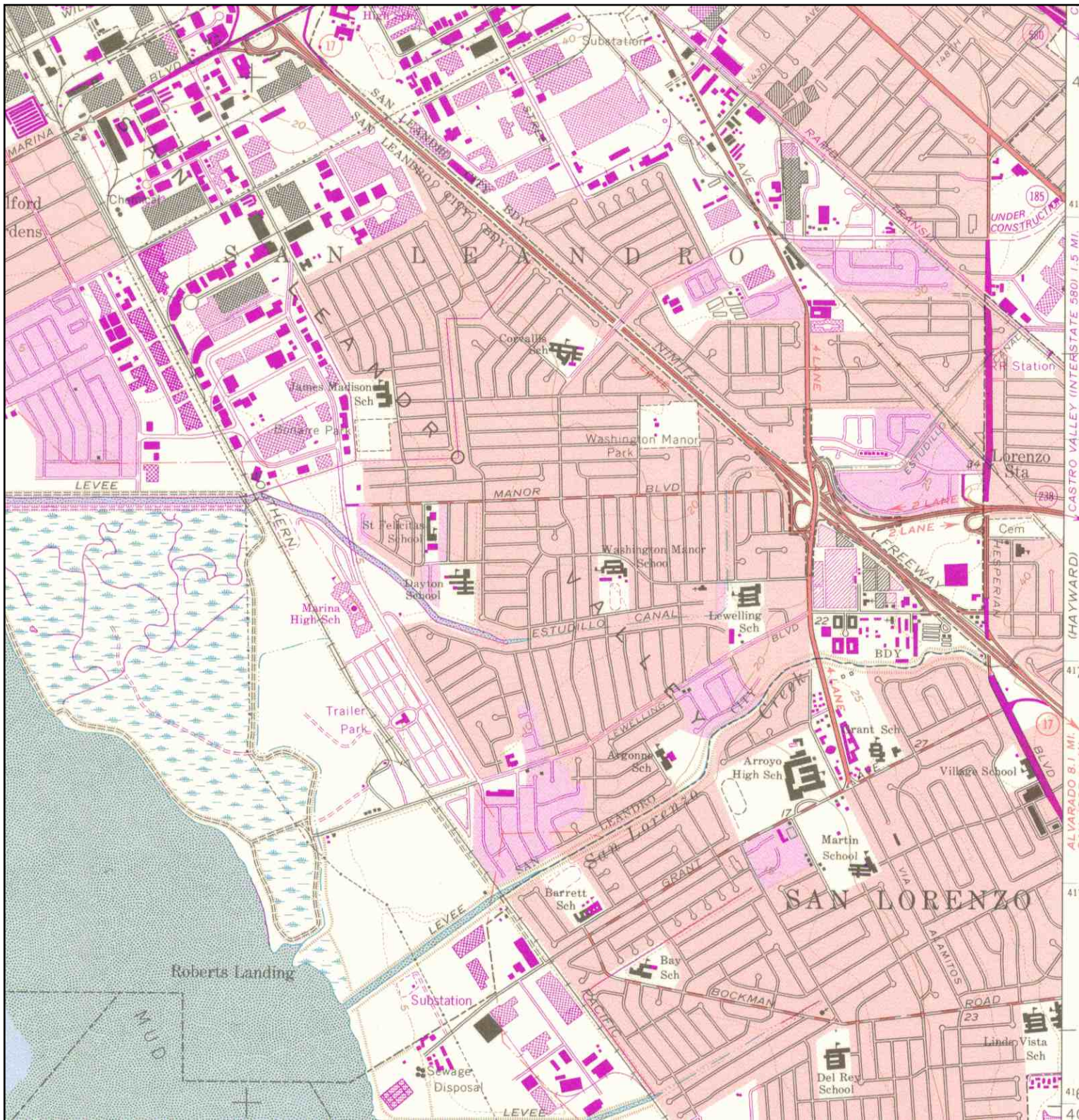
	ADJOINING QUAD	SITE NAME: SLUSD	CLIENT: Kleinfelder, Inc.
	NAME: SAN LEANDRO	ADDRESS: 16501 Ashland Avenue	CONTACT: Mehagan Hopkins
	MAP YEAR: 1968	San Lorenzo, CA 94580	INQUIRY#: 2542549.4
	PHOTOREVISED FROM: 1959	LAT/LONG: 37.6893 / 122.119	RESEARCH DATE: 07/16/2009
	SERIES: 7.5		
	SCALE: 1:24000		

# Historical Topographic Map



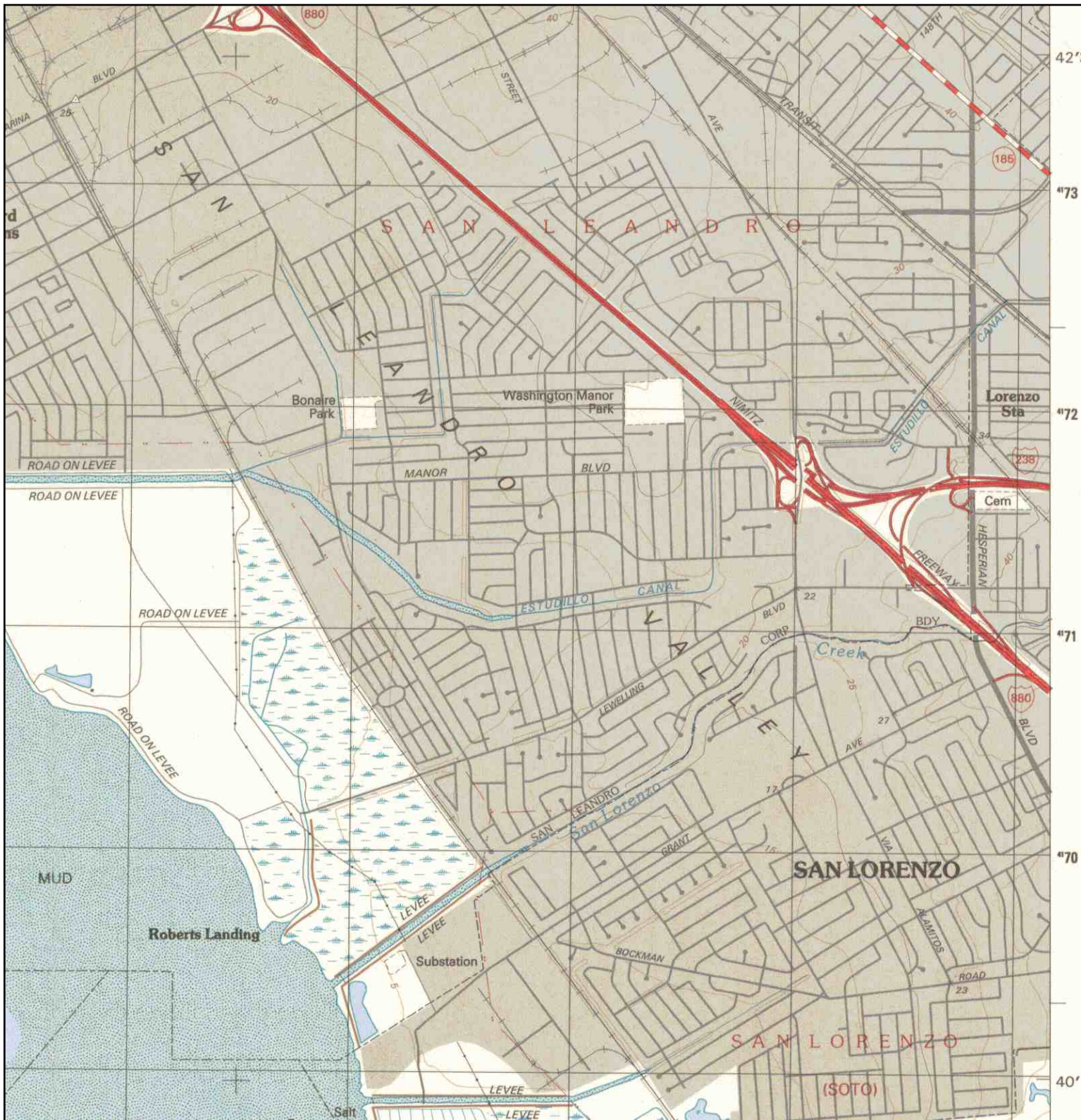
	ADJOINING QUAD	SITE NAME: SLUSD	CLIENT: Kleinfelder, Inc.
	NAME: SAN LEANDRO	ADDRESS: 16501 Ashland Avenue	CONTACT: Mehagan Hopkins
	MAP YEAR: 1973	San Lorenzo, CA 94580	INQUIRY#: 2542549.4
	PHOTOREVISED FROM: 1959	LAT/LONG: 37.6893 / 122.119	RESEARCH DATE: 07/16/2009
	SERIES: 7.5		
	SCALE: 1:24000		

# Historical Topographic Map



	ADJOINING QUAD	SITE NAME: SLUSD	CLIENT: Kleinfelder, Inc.
	NAME: SAN LEANDRO	ADDRESS: 16501 Ashland Avenue	CONTACT: Mehagan Hopkins
	MAP YEAR: 1980	San Lorenzo, CA 94580	INQUIRY#: 2542549.4
	PHOTOREVISED FROM: 1959	LAT/LONG: 37.6893 / 122.119	RESEARCH DATE: 07/16/2009
	SERIES: 7.5		
	SCALE: 1:24000		

# Historical Topographic Map



<p>N ↑</p>	<p>ADJOINING QUAD NAME: SAN LEANDRO MAP YEAR: 1993</p>	<p>SITE NAME: SLUSD ADDRESS: 16501 Ashland Avenue San Lorenzo, CA 94580 LAT/LONG: 37.6893 / 122.119</p>	<p>CLIENT: Kleinfelder, Inc. CONTACT: Mehagan Hopkins INQUIRY#: 2542549.4 RESEARCH DATE: 07/16/2009</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		

# **APPENDIX E**

## **PREVIOUS ASSESSMENTS**

ALAMEDA COUNTY  
HEALTH CARE SERVICES



AGENCY  
DAVID J. KEARS, Agency Director

October 3, 1997

ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

StID# 2690

Mr. Scott Hilyard  
Military Dept., Acct., -#43,  
P.O. Box 269101,  
Sacramento, CA 95826-9101

**Re: Fuel Leak Site Case Closure for the California National  
Guard Facility, at 16501 Ashland Ave., San Lorenzo 94580**

Dear Mr. Hilyard:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

**SITE INVESTIGATION AND CLEANUP SUMMARY**

Please be advised that the following conditions exist at the site:

- o 600 parts per billion (ppb) TPH(g) remains in the ground water in the area of the former underground tank. BTEX levels are 9., 1.3, 74, and 22.(ppb) respectively.
- o If a change in the land use is proposed, then an evaluation of risk from exposure to contaminated soil/groundwater must be made.

If you have any questions, please contact this office at (510) 567-6737.

Sincerely

Brian P. Oliva, REHS, REA,  
Hazardous Materials Specialist

enclosure:

1. Case Closure Letter, Case Closure Summary



ALAMEDA COUNTY  
HEALTH CARE SERVICES



AGENCY  
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION (LOP)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

August 11, 1997

STID #2690

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Scott Hilyard  
Military Dept., Acct.-#43,  
P.O. Box 269101,  
Sacramento, CA 95826-9101

Subject: California National Guard Facility, 16501 Ashland Ave.,  
San Lorenzo, CA 94580 - 2,000 gallon gasoline underground  
storage tank

Dear Mr. Hilyard,

This letter confirms the completion of a site investigation and remedial action for the underground storage tank formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank are greatly appreciated.

Based upon the available information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact Brian P. Oliva, at (510) 567-6737 if you have any questions regarding this matter.

Sincerely,

  
Mee Ling Tung  
Director of Environmental Health Services

enclosure

c: Chief, Hazardous Materials Division - files  
Brian P. Oliva, ACDEH  
Kevin Graves, RWQCB  
Lori Casias, SWRCB  
Cheryl Gordon, State Cleanup Fund  
Jim Ferdinand, Alameda County Fire Department

01-1095

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**  
Page 1 of 5

**Department of Environmental Health**

**I. AGENCY INFORMATION**

Agency name: **Alameda County-HazMat**  
Date:City/State/Zip: **Alameda, CA 94502**  
Responsible staff person: **Amy Leech**

Date: **February 26, 1997**  
Address: **1131 Harbor Bay Pkwy**  
Phone: **(510) 567-6700**  
Title: **Hazardous Materials Spec.**

**MAY 01 1997**

**II. CASE INFORMATION**

Site facility name: **National Guard Organization Maintenance Shop No. 35**  
Site facility address: **16501 Ashland Ave., San Lorenzo CA 94580**  
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **2690**  
URF filing date: **12/13/89** SWEEPS No: **N/A**

**Responsible Parties:**

**Address:**

**Phone Numbers:**

Attn: **Scott Hilyard**  
Military Dept., Acct. #42

**PO Box 269101**  
**Sacramento CA 95826-9101**

c: **Homer Lin** **400 "P" St., 5th Floor** **916-445-6939**  
**Office of State Architect** **Sacramento CA 95814**  
**Special Projects**

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	2,000	gasoline	removed	04/22/93

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and type of release: **Corrosion holes in product piping.**

Site characterization complete? **Yes**

Monitoring Wells installed? **Yes** Number: **3**

Proper screened interval? **Yes**

Highest GW depth below ground surface: **4.5 ft** Lowest depth: **9.4 ft (shallow aquifer)**

Flow direction: **Predominantly to the north but has varied northeast to southwest. (The gradient of the deeper aquifer is unknown. Investigations assumed that sampling of "downgradient" wells screened in the shallow aquifer would address downgradient conditions of the deeper aquifer.)**

Most sensitive current use: **Commercial**

Are drinking water wells affected? **No** Aquifer name: **N/A**

Is surface water affected? **No** Nearest affected SW name: **N/A**

Off-site beneficial use impacts (addresses/locations): **none**

Report(s) on file? **YES** Where is report(s) filed?  
**Alameda County, 1131 Harbor Bay Pkwy, Alameda, CA 94502**

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**  
 Page 2 of 5

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION (cont'd)**

**Treatment and Disposal of Affected Material:**

<u>Material</u>	<u>Amount</u> (include units)	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank	1-2,000 gallon UST	Erickson, 255 Parr Blvd., Richmond CA	04/22/93
Rinsate	400 gallons	Gibson Oil, 475 Sea Port Blvd., Redwood City CA	04/22/93

**Maximum Documented Contaminant Concentrations - - Before and After Cleanup**

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before</u> <sup>1</sup>	<u>After</u> <sup>2</sup>	<u>Before</u> <sup>3</sup>	<u>After</u> <sup>4</sup>
TPH (Gasoline)	73	NA	110,000	4,100
TPH (Diesel)	17	"	56	ND
Benzene	0.438	"	7,210	18
Toluene	3.4	"	13,500	4.2
Ethylbenzene	1.7	"	2,680	110
Xylene	10.4	"	12,000	27
MTBE	NT	NT	NT	ND

NT=not tested

1 "Before" soil sample collected from the gasoline UST pit after the tank was removed in 04/93; TPH-D result collected from boring B-3 at 10 ft. bgs.

2 The removal of contaminated soil was not completed at this site.

3 "Before" water collected as a "grab" sample from the gasoline UST pit in April 1993, except for TPH-G result was collected from a "grab" groundwater sample from boring B-3 and TPH-D result was collected from boring B-9 in July 1993.

4 "After" water represents the max. conc. detected during four quarters of sampling monitoring wells MW1-MW3 from 1993 to 1996.

**Comments (Depth of Remediation, etc.):** See "Additional Comments" section.

**IV. CLOSURE**

Does corrective action protect public health for current land use? **Yes**

Site management requirements: **If a change in land use is proposed or excavation of soils is planned at this site, then an evaluation of risk from exposure to contaminated soil and groundwater must be made.**

Should corrective action be reviewed if land use changes? **YES**

Monitoring wells Decommissioned: **Pending case closure approval.**

Number Decommissioned: **0** Number Retained: **3 (MW1-MW3)**

List enforcement actions taken: **n/a**

List enforcement actions rescinded: **n/a**

**V. ADDITIONAL COMMENTS**

The National Guard Organization Maintenance Shop No. 35 located at 16501 Ashland Avenue in San Lorenzo, California has been a military staging post since the Korean War era. One 2,000-gallon gasoline underground storage tank (UST) of single-walled steel construction was installed at this site around 1951 and was used intermittently until it was removed in 1993. (See attachment 1 for site location and layout.)

In November and December 1989, the gas tank piping system was upgraded to double walled-fiberglass piping

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**  
**Page 3 of 5**

**V. ADDITIONAL COMMENTS (cont'd)**

and a new diesel UST system was installed. Large corrosion holes were discovered in the gasoline product piping during pipe removal activities. Soil contamination was reportedly observed beneath the piping. County field notes indicate that the contractor was asked to excavate contaminated soil along the pipe trench prior to installing the new pipes. Two soil samples were reportedly collected from stockpile soil and the pipe trench where the corrosion holes were found. (See attachment 2 for sample locations and results.) It is not known if these samples were collected prior to or subsequent to overexcavation of the pipe trench.

In April 1993, the 2,000-gallon gasoline UST was removed. Both the tank and the double-walled piping appeared in good condition. Groundwater was present in the UST pit at 7 feet below ground surface (bgs). Soil was stained and free-product was noted on the groundwater. Sidewall soil samples were collected at both ends of the UST. Up to 73 parts per million (ppm) Total Petroleum Hydrocarbons as Gasoline (TPH-G) and 0.438, 1.7, 3.4, 10.4 ppm benzene, ethylbenzene, toluene, and xylene (BETX), respectively, were identified in sample SL-3 collected at the east end of the pit. Up to 51,000 parts per billion (ppb) TPH-G and 7,210, 2,680, 13,500, 12,000 ppb BETX, respectively, were detected in the "grab" groundwater sample collected from the UST pit. Note that no samples were collected along the pipe trench where contamination was observed in 1989, and no overexcavation of contaminated soils was performed. (See attachment 3 for sample locations and results.)

In July 1993, eleven (11) soil borings (B1-B3, B5, B7, B9, B13-B17) were drilled at the site to assess the extent of soil and groundwater contamination. Forty-six soil samples were collected and analyzed. Only five samples contained detectable concentrations of petroleum hydrocarbons. Up to 450 ppm TPH-G and 2.4 ppm benzene were detected in the 10 ft. sample of boring B-3; this sample was within the capillary fringe. A minimum of one "grab" groundwater sample was collected from each of the boring locations. A free-product sheen was reportedly observed in a "grab" groundwater sample collected from Boring B-13, and up to 110,000 ppb TPH-G and 3,400 ppb benzene were detected in groundwater collected from boring B-3; lead concentrations were below threshold values. (See attachment 4 for sample locations and results.)

Three of the borings B-1, B-14, and B-13 were converted into monitoring wells MW1, MW-2, and MW-3, respectively. (See attachment 4 for boring locations and results and attachment 5 for boring logs and well construction details.)

In order to further define the extent of groundwater contamination at this site, five additional borings (GP-1 through GP-5) were installed in April 1995 in the vicinity of the former UST system and in a grass covered field at San Lorenzo High School located west of the former UST pit. Groundwater sampled from boring GP-5 was collected from a deeper aquifer located between 22 and 25 ft. bgs to determine if any impact of petroleum hydrocarbons had occurred. Groundwater samples collected from these borings were all non-detect for all constituents sought. (See attachment 6 for sample locations and results.)

In November 1996, two additional "grab" groundwater samples GS-1 and GS-2 were collected at the site to assess groundwater conditions north of monitoring well MW-3. TPH-G, TPH-D, and BTEX were non-detect in both samples. (See attachment 7 for sample locations and results.)

Groundwater has been sampled and analyzed from monitoring wells MW-1 through MW-3 four times from July 1993 through August 1996 (7/93, 5/95, 8/95, 8/96). Depth to groundwater has varied from 4.5 ft. bgs to 9.4 ft. bgs. Groundwater gradient has predominantly been toward the north but directions ranging from northeast to southwest have been recorded at this site. Gradient has ranged from 0.006 ft/ft to 0.016 ft/ft.

Up to 4,100 ppb TPH-G and 18, 4.2, 27, and 110 BTEX, respectively, were detected in monitoring well

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**  
**Page 4 of 5**

**V. ADDITIONAL COMMENTS (cont'd)**

MW-3 between 7/93 and 8/96. TPH-G, TPH-D, and BTEX were not detected in MW-1 and MW-2. MTBE was not detected in any of the monitoring wells. (See attachment 8 for historical groundwater data.)

No further investigations are recommended since this site appears to meet the San Francisco RWQCB's definition of a low risk groundwater case:

1. The source of contamination was abated by removal of the UST system. Although there are no written reports that overexcavation of contaminated soil occurred at this site, soil samples collected from borings within the vicinity of the UST system were ND for TPH-G and BTEX, except for a sample collected at 10 ft. bgs within the capillary fringe from boring B-3.
2. The extent of impact to soil and groundwater has been evaluated at this site by analysis of multiple soil and groundwater samples collected within and in the vicinity of the former UST system.
3. Analytical groundwater data collected 4 times over 3 years has shown that the dissolved hydrocarbon plume is not significantly migrating and concentrations have shown significant attenuation since 1993.
4. The residual contamination left in soil and groundwater at this site is not expected to significantly impact water wells, deeper drinking water aquifers, surface water, or other sensitive receptors. Shallow groundwater at this site is not used for municipal or domestic purposes. A deeper water-bearing (sandy) layer has been encountered between 22 and 25 feet bgs. "Grab" groundwater samples have been collected from this deeper water-bearing layer in three different locations at the site. TPH-G, TPH-D, and BTEX were non-detect in all samples. (See attachment 9 for sample locations and results.) A well survey completed in 1996 reported there are 27 wells within a 1/2-mile radius of the site. The closest of these wells to the tank area are irrigation wells located approximately 400 feet to the north and 300 feet to the southeast. All wells appear to be screened below the first shallow water bearing layer. (See attachment 10 for well locations.)
5. No significant risk to human health was found for outdoor inhalation for commercial exposure scenarios to benzene from soil or groundwater contamination using the ASTM E1739-95 Tier 1 RBSL Look-up Table for a  $1 \times 10^{-5}$  excess cancer risk. There are currently no buildings or structures over the soil and groundwater contaminant plume.
6. It does not appear that sensitive ecological receptors are currently impacted by the petroleum hydrocarbon release from this site; therefore, an environmental risk analysis was not performed.

A risk management strategy should be developed to:

- If appropriate, mitigate any potential negative impacts posed by the residual contamination remaining on site (e.g., install vapor barriers beneath new building construction).
- Develop a strategy to address any risk posed to the construction or utility worker exposure during earth moving activities in the vicinity of the former tank pit.
- Take precautions to avoid making vertical or lateral conduits that may cause cross contamination between the shallow and deeper aquifers.

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**  
**Page 5 of 5**

**VI. LOCAL AGENCY REPRESENTATIVE DATA**

Name: Amy Leech

Signature: 

Title: Hazardous Materials Specialist

Date: 3/28/94

Reviewed by


Name: Juliet Shin

Signature: 

Title: Senior Hazardous Materials Specialist

Date: 3/11/97

Name: Thomas Peacock

Signature: 

Title: Supervising, Hazardous Materials Spec.

Date: 3-27-97

**VII. RWQCB NOTIFICATION**

Date Submitted to RB:

RWQCB Staff Name: Kevin Graves, P.E.

Title: Assoc. Water Resources Control Engineer

RB Response: 

Signature: 

Date: 4/21/97

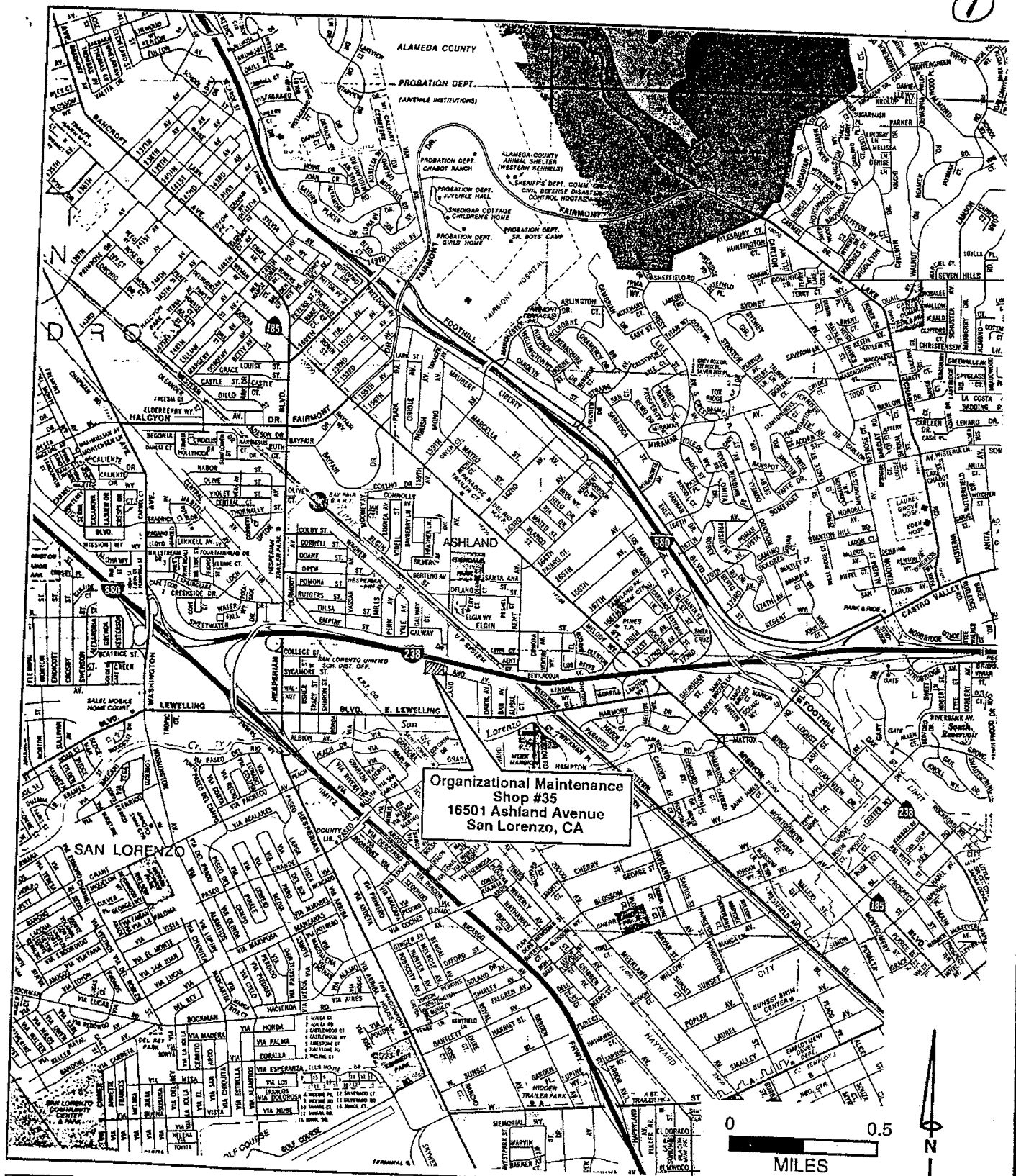
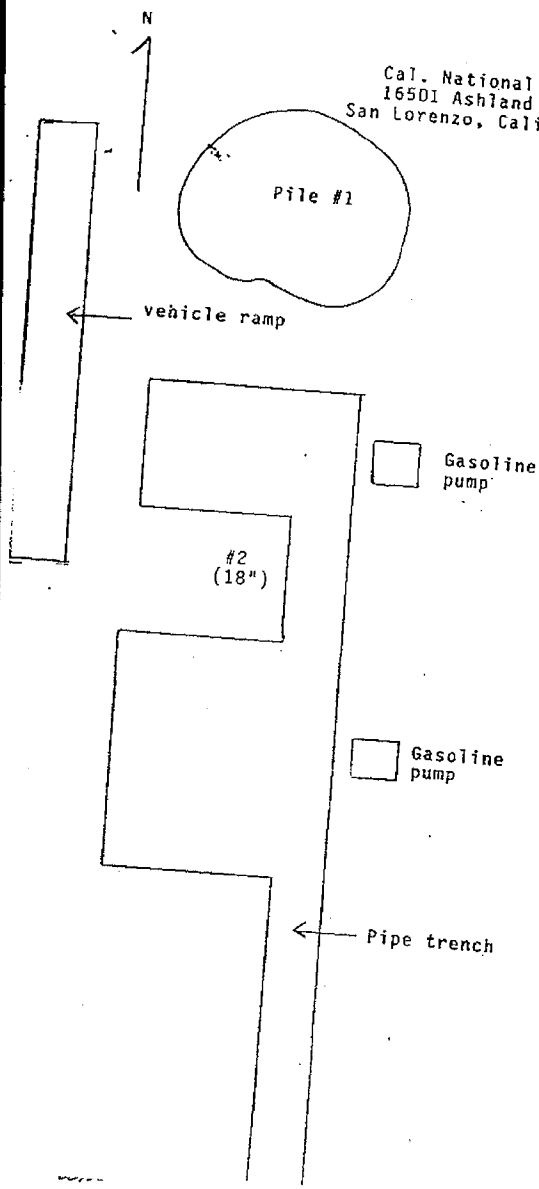


Figure 1B

Site Location Map



Cal. National Guard  
16501 Ashland Ave.  
San Lorenzo, California



DATE: 12/12/89  
LOG NO.: 8125  
DATE SAMPLED: 12/4/89  
DATE RECEIVED: 12/4/89

CUSTOMER: R.S. Eagan and Company

REQUESTER: Bob Eagan

PROJECT: Cal. National Guard, 16501 Ashland Avenue, San Lorenzo, CA

Constituent	Units	Sample Type: Soil			
		Stockpile No. 1		Scientific piping No. 2	
		Concentration	Detection Limit	Concentration	Detection Limit
DHS Method:					
Total Petroleum Hydrocarbons as Gasoline	mg/kg	250	30	0.9	0.6
Modified EPA Method 8020:					
Benzene	mg/kg	1.6	0.8	< 0.05	0.05
Toluene	mg/kg	12	0.6	< 0.05	0.05
Xylenes	mg/kg	42	2	< 0.2	0.2
Ethylbenzene	mg/kg	8.9	0.8	0.058	0.05

*Louis W. DuPuis*  
Louis W. DuPuis  
Quality Assurance/Quality Control Manager

LWD:jon



Table I  
 Analytical Results for Ground Water and Soil Samples Collected April 22, 1992<sup>93</sup>  
 from the Tank Removal Excavation at OMS #35  
 16501 Ashland Avenue, San Lorenzo, CA

Sample No.	Sample type and location	Depth (ft)	TPH-g (ppm) <sup>1</sup>	Benzene (ppb) <sup>2</sup>	Ethyl benzene (ppb) <sup>2</sup>	Toluene (ppb) <sup>2</sup>	Xylenes (ppb) <sup>2</sup>
SL-1	stockpiled soil	not applicable	297	450	5,790	6,420	35,800
SL-2	ground water from the excavation	-7	51.4	7,210	2,680	13,500	12,000
SL-3	soil, E sidewall	-5	73	438	1,700	3,410	10,400
SL-4	soil, W sidewall	-6.5	ND<1.0	ND<5	ND<5	ND<5	ND<15
SL-5	soil, W sidewall	between 6.5 and 7.5	ND<1.0	ND<5	ND<5	ND<5	23

- (1) ppm = parts per million = mg/l for water, mg/kg for soil  
 (2) ppb = parts per billion = µg/l for water, µg/kg for soil

*Lab Analytical Reports not included w/this report.*

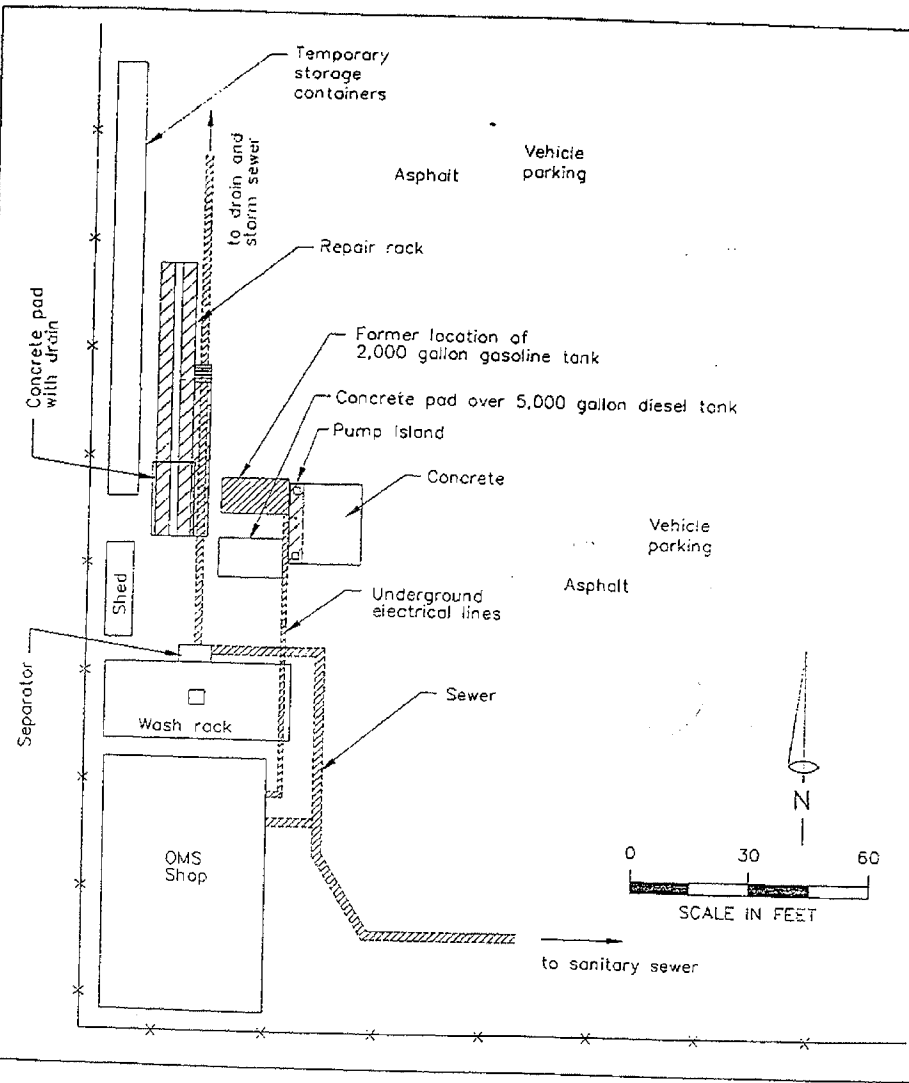


Figure 2 Site Map

PROJECT NO. 9410-01

DRAWN BY EH

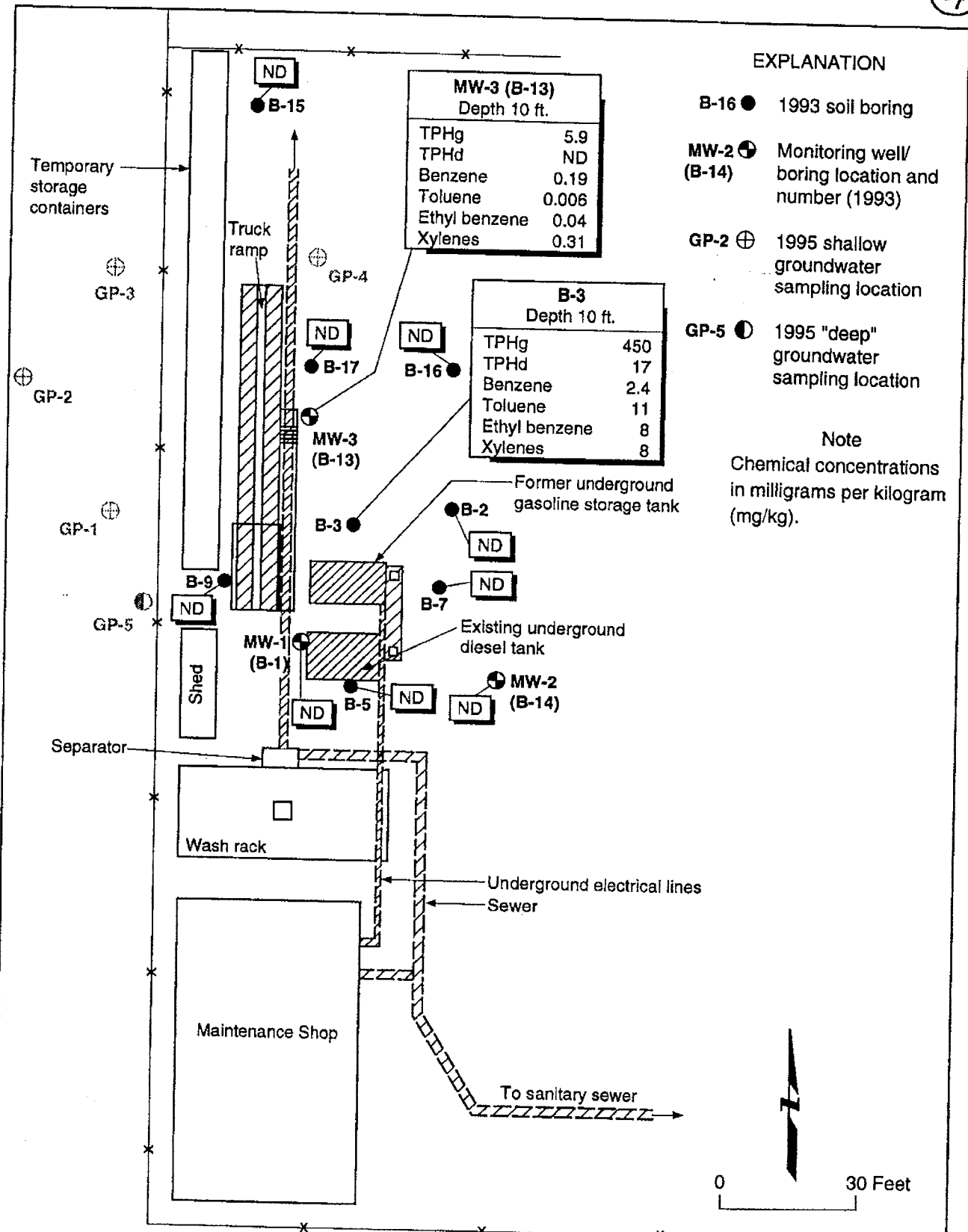
DATE 6/3/93 FILE NO. SITEPLAN



TC 9410-01/Workplan

9

3



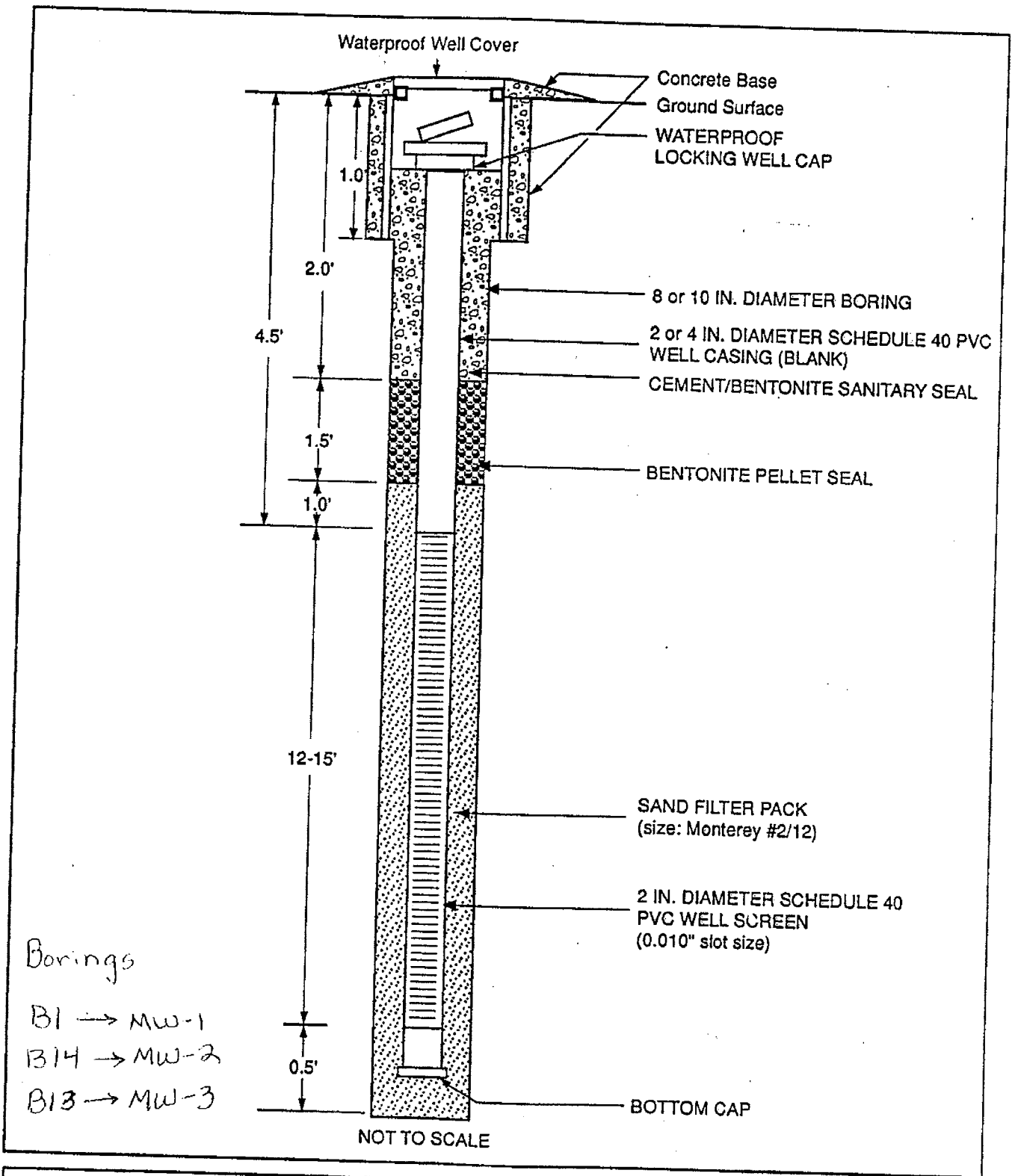
Reference: Tetra Tech, Inc., 1993

2868.03.003



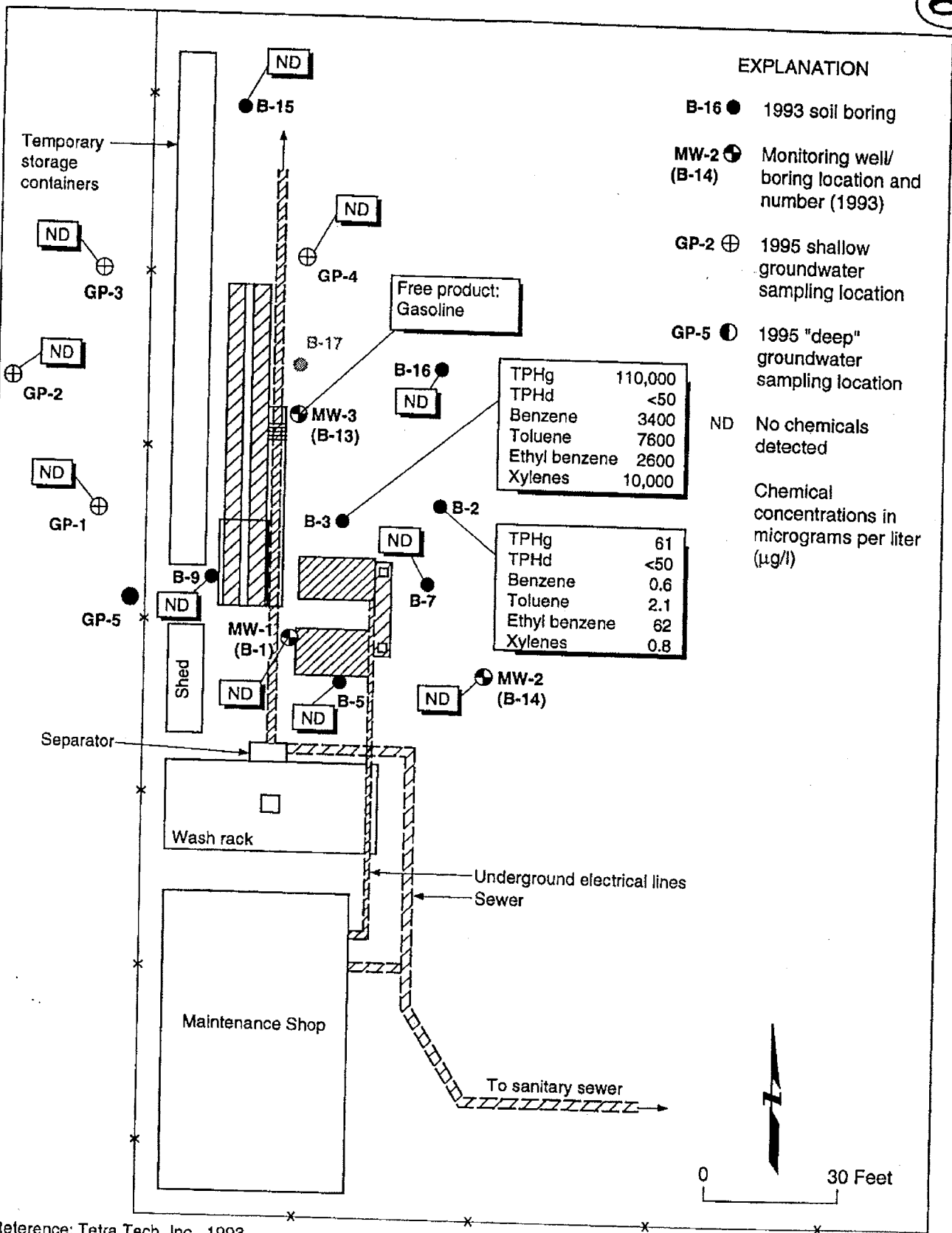
**MAXIMUM CONCENTRATIONS DETECTED IN SOIL**  
 National Guard Organizational Maintenance Shop #35  
 16501 Ashland Avenue  
 San Lorenzo, California

Figure  
3  
Project No.  
2868.03



**Figure 3** **Monitoring Well Construction Diagram**





**EXPLANATION**

- B-16 ● 1993 soil boring
- MW-2 ⊕ (B-14) Monitoring well/ boring location and number (1993)
- GP-2 ⊕ 1995 shallow groundwater sampling location
- GP-5 ● 1995 "deep" groundwater sampling location

ND No chemicals detected

Chemical concentrations in micrograms per liter (µg/l)

TPHg	110,000
TPHd	<50
Benzene	3400
Toluene	7600
Ethyl benzene	2600
Xylenes	10,000

TPHg	61
TPHd	<50
Benzene	0.6
Toluene	2.1
Ethyl benzene	62
Xylenes	0.8

Free product: Gasoline

Reference: Tetra Tech, Inc., 1993

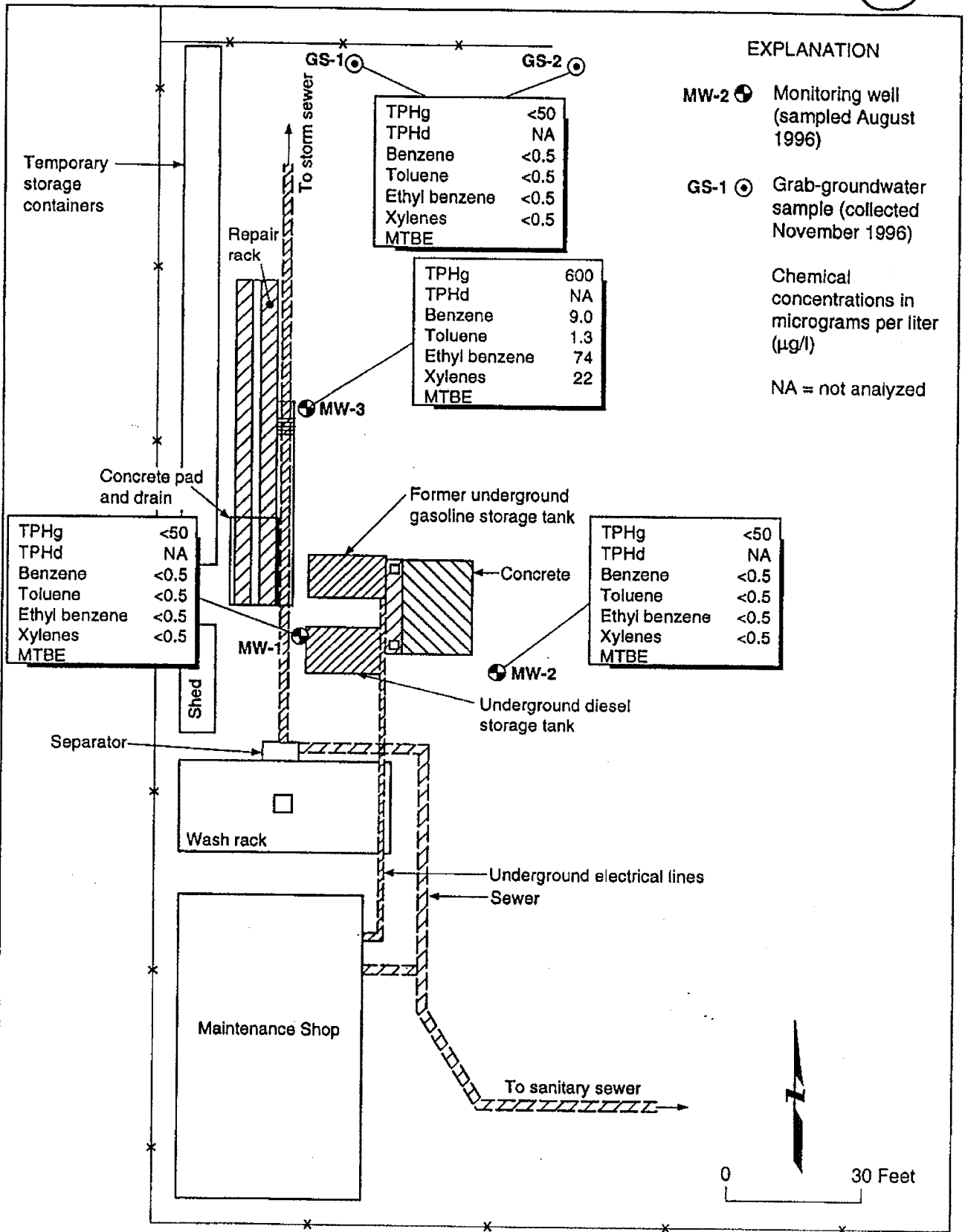
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**PREVIOUS SHALLOW GRAB GROUNDWATER RESULTS**  
 JULY 1993 AND APRIL 1995  
 National Guard Organizational Maintenance Shop #35  
 San Lorenzo, California

Figure 4

Project No. 2868.03



Reference: Tetra Tech, Inc., 1993

2868.03.006



**RECENT GROUNDWATER RESULTS**  
 National Guard Organizational Maintenance Shop No. 35  
 San Lorenzo, California

Figure 6
Project No. 2868.03



TABLE 4

**HISTORICAL WATER LEVEL MEASUREMENTS**  
National Guard Organizational Maintenance Shop  
San Lorenzo, California

Well No.	Date	Depth Below TOC <sup>1</sup> (feet)	TOC Elevation (feet, msl <sup>2</sup> )	Groundwater Elevation (feet, msl)
MW-1	11/22/94	8.92	35.53	26.61
	1/6/95	8.31	35.53	27.22
	4/20/95	5.12	35.53	30.41
	5/3/95	5.34	35.53	30.19
	6/9/95	6.14	35.53	29.39
	7/18/95	6.55	35.53	28.98
	8/11/95	7.13	35.53	28.40
	9/8/95	7.61	35.53	27.92
	8/9/96	6.73	35.53	28.80
MW-2	11/22/94	9.41	36.32	26.91
	1/6/95	8.50	36.32	27.82
	4/20/95	6.16	36.32	30.16
	5/3/95	6.13	36.32	30.19
	6/9/95	6.92	36.32	29.40
	7/18/95	7.47	36.32	28.85
	8/11/95	7.90	36.32	28.42
	9/8/95	8.38	36.32	27.94
	8/9/96	7.51	36.32	28.81
MW-3	11/22/94	7.89	34.54	26.65
	1/6/95	7.03	34.54	27.51
	4/20/95	4.55	34.54	29.99
	5/3/95	4.70	34.54	29.84
	6/9/95	5.51	34.54	29.03
	7/18/95	9.00	34.54	25.54
	8/11/95	6.48	34.54	28.06
	9/8/95	6.90	34.54	27.64
	8/9/96	6.10	34.54	28.44

## Notes:

- <sup>1</sup> TOC = Top of casing (measuring point).  
<sup>2</sup> msl = Above mean sea level.

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TABLE 2

**MONITORING WELL ANALYTICAL RESULTS<sup>1</sup>**  
National Guard Organizational Maintenance Shop  
San Lorenzo, California

Concentrations in micrograms per liter (µg/l)

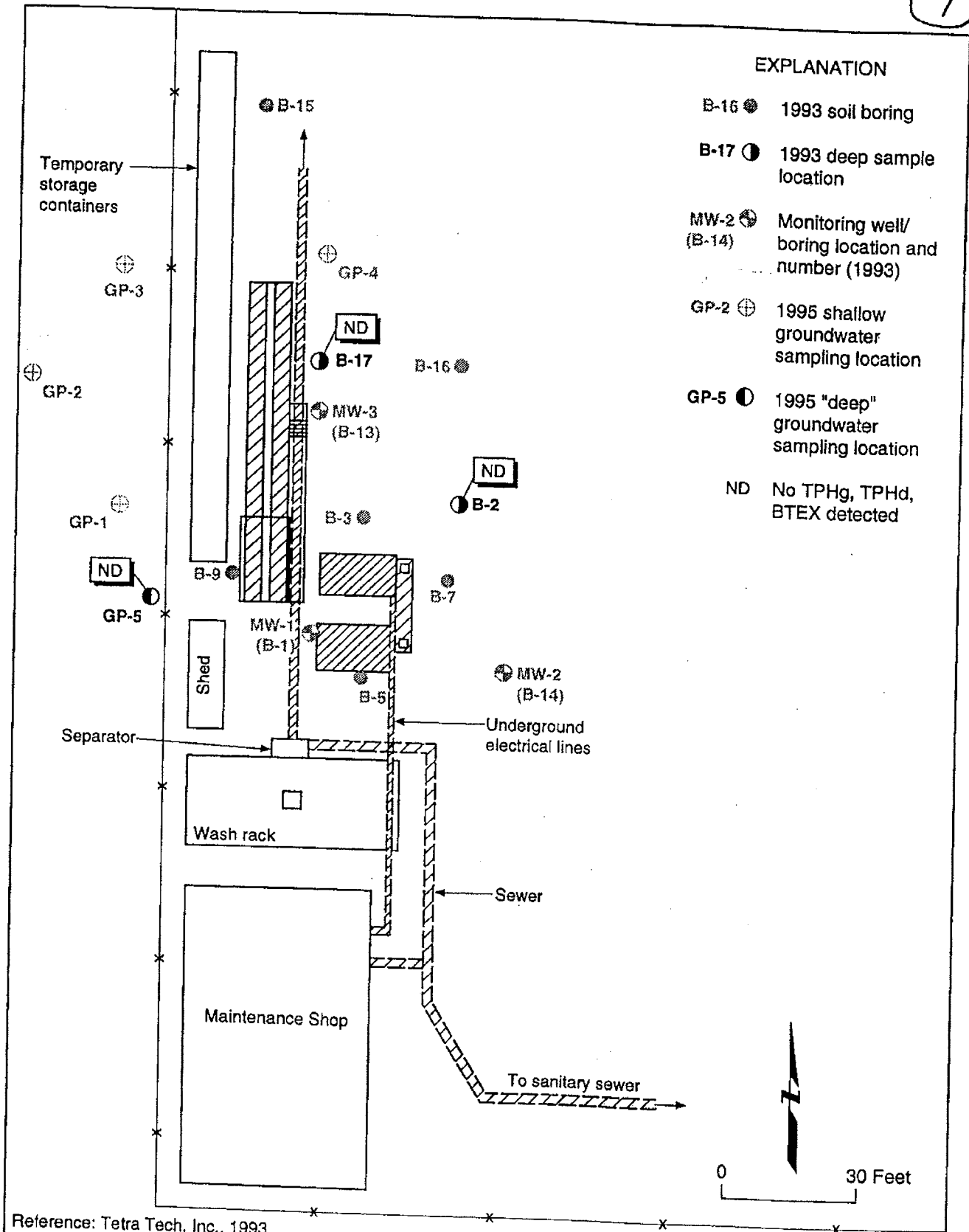
Sample No.	Date Collected	TPHd <sup>2</sup>	TPHg <sup>3</sup>	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE <sup>4</sup>
MW-1	7/14/93	ND <sup>5</sup>	ND	ND	ND	ND	ND	NA <sup>6</sup>
	5/3/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/11/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/9/96	NA	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-2	7/14/93	ND	ND	ND	ND	ND	ND	NA
	5/3/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/11/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-3	8/9/96	NA	<50	<0.5	<0.5	<0.5	<0.5	NA
	7/14/93	<200	4100	ND	ND	640	ND	NA
	5/3/95	<50	600	18	4.2	27	110	NA
	8/11/95	<50	710	11	3.2	23	110	NA
	8/9/96	NA	600	9.0	1.3	22	74	<5

## Notes:

- <sup>1</sup> Chemical analyses performed by Chromalab, Inc., of Pleasanton, California. Laboratory analytical reports detailing the analyses performed, method detection limits for each constituent, and analytical results are included in Appendix A.  
<sup>2</sup> TPHd = total petroleum hydrocarbons as diesel. Analysis by modified EPA Method 8015.  
<sup>3</sup> TPHg = total petroleum hydrocarbons as gasoline. Analysis by modified EPA Method 8015.  
<sup>4</sup> MTBE = methyl tert butyl ether  
<sup>5</sup> ND = not detected at or above detection limit; detection limit for these samples is unknown. Sampling conducted and performed by TetraTech, Inc.  
<sup>6</sup> NA = not analyzed.

I:\WPDOCS\2868\M\WAR-TB2.DOC

8



**EXPLANATION**

- B-16 ● 1993 soil boring
- B-17 ● 1993 deep sample location
- MW-2 ● (B-14) Monitoring well/ boring location and number (1993)
- GP-2 ⊕ 1995 shallow groundwater sampling location
- GP-5 ● 1995 "deep" groundwater sampling location
- ND No TPHg, TPHd, BTEX detected

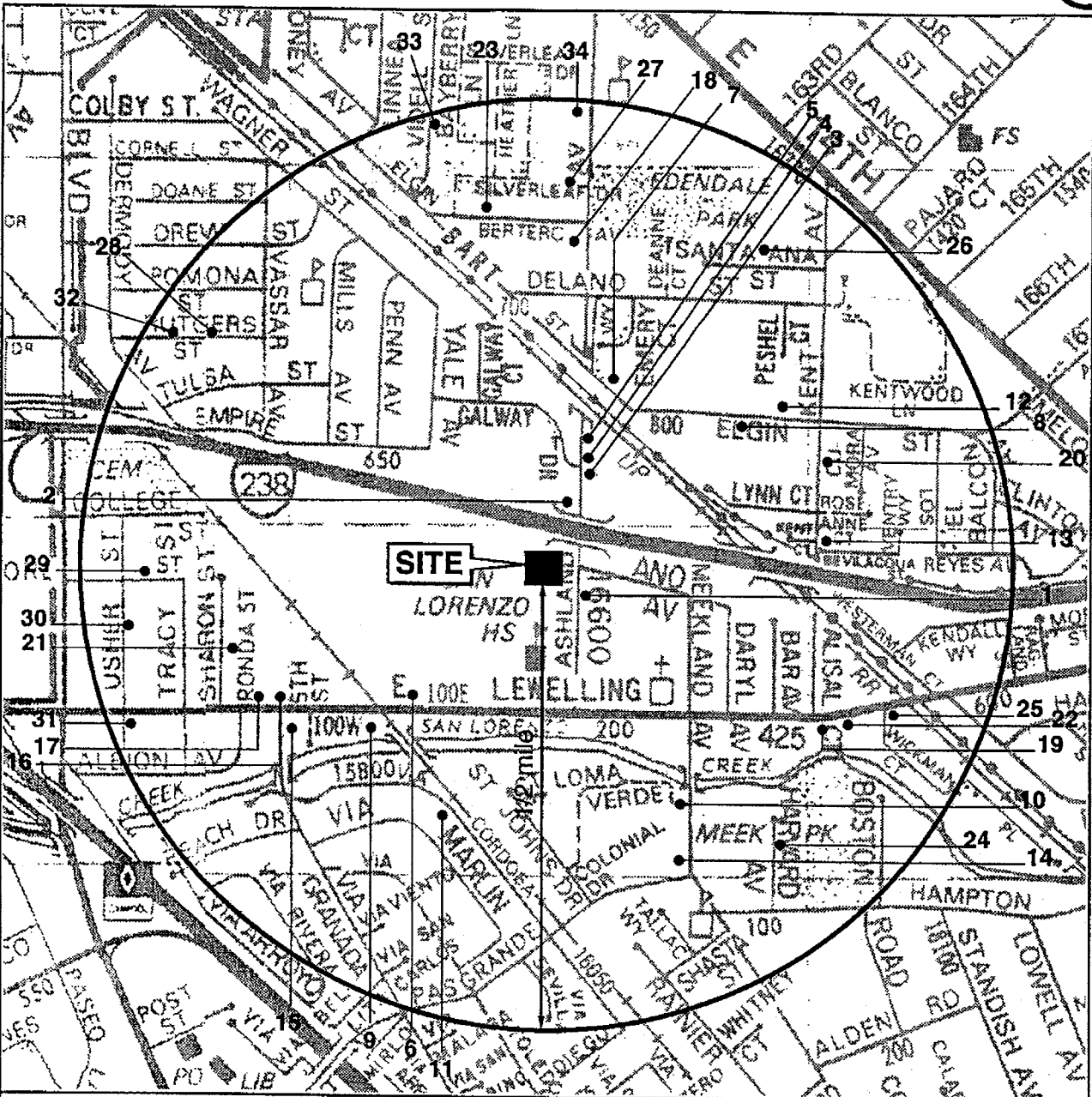
Reference: Tetra Tech, Inc., 1993

2868.03.005



PREVIOUS "DEEP" GRAB GROUNDWATER RESULTS  
 JULY 1993 AND APRIL 1995  
 National Guard Organizational Maintenance Shop #35  
 San Lorenzo, California

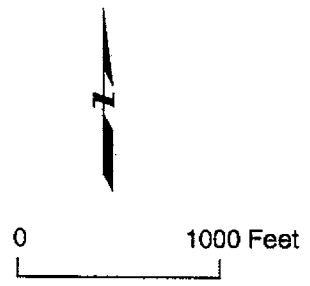
Figure 5
Project No. 2868.03



Base map from *The Thomas Bros. Guide, Alameda/Contra Costa Counties, 1998 Edition*. Reproduced with permission granted by THOMAS BROS. MAPS®. This map is copyrighted by THOMAS BROS. MAPS®. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without permission.

**EXPLANATION**

- 21 ● Approximate location of well. See Table 5 for detailed information.



**WELL SURVEY**  
 National Guard Organization Maintenance Shop No. 35  
 16501 Ashland Avenue  
 San Lorenzo, California

Figure  
 8  
 Project No.  
 2868









ENVIRONMENTAL  
PROTECTION



96 DEC 24 PM 12:48

*1/2/97*

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**GROUNDWATER SAMPLING AND  
CLOSURE REPORT**

**National Guard  
Organizational Maintenance Shop No. 35  
16501 Ashland Avenue  
San Lorenzo, California**

**Prepared for**

**Division of State Architect  
1300 I Street  
Sacramento, California 95814**

**December 1996  
Project No. 2868**

---

**Geomatrix Consultants**

100 Pine Street, 10th Floor  
San Francisco, CA 94111  
(415) 434-9400 • FAX (415) 434-1365



16 December 1996  
Project 2868

Ms. Amy Leech  
Alameda County Environmental Protection Division  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Subject: Groundwater Sampling and Closure Report  
National Guard Organizational Maintenance Shop No. 35  
San Lorenzo, California

Dear Ms. Leech:


Enclosed is a Groundwater Sampling and Closure Report prepared by Geomatrix Consultants, Inc., for the National Guard Organizational Maintenance Shop at 16501 Ashland Avenue in San Lorenzo, California. This report was prepared on behalf of the California Department of the Military and the Division of State Architect. It summarizes all of the subsurface work that has been conducted at the site in relation to a former underground gasoline storage tank and presents the results of four sampling rounds conducted on the three on-site monitoring wells over a three year period. Based on the limited distribution of petroleum hydrocarbons in soil and groundwater in the vicinity of the former tank and the documented natural degradation processes occurring in groundwater, we believe this site qualifies as a Low Risk Groundwater Case as defined by the Regional Water Quality Control Board.

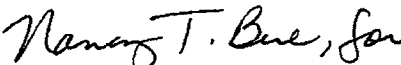
This report documents the limited impact to the environment from the former tank and the very low potential for impact to human health from the petroleum constituents in soil and groundwater. We recommend the site for closure with respect to environmental issues.

If you have any questions or require additional information, please contact either of the undersigned.

Sincerely,

GEOMATRIX CONSULTANTS, INC.

  
Lisa D. Rowles, R.G.  
Senior Geologist

  
Sally E. Goodin, R.G.  
Principal Geologist

LDR/bab  
I:\WPDOCS\2868\CLSR-LTR.DOC

cc. Homer Lin, Division of the State Architect  
Bernadet Shields, SFC - National Guard

Enclosure

**Geomatrix Consultants, Inc.**  
Engineers, Geologists, and Environmental Scientists



---

**GROUNDWATER SAMPLING AND  
CLOSURE REPORT**

**National Guard  
Organizational Maintenance Shop No. 35  
16501 Ashland Avenue  
San Lorenzo, California**

**Prepared for**

**Division of State Architect  
1300 I Street  
Sacramento, California 95814**

**December 1996  
Project No. 2868**

---

**Geomatrix Consultants**

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## **GROUNDWATER MONITORING AND SITE CLOSURE REPORT**

National Guard Organizational Maintenance Shop No. 35

San Lorenzo, California

### **1.0 INTRODUCTION**

This report was prepared by Geomatrix Consultants, Inc. (Geomatrix) on behalf of the California Department of the Military (CDM) and Division of State Architect to summarize previous work performed at the site, present recent groundwater sampling results, and describe current conditions at and in the vicinity of the National Guard Organizational Maintenance Shop No. 35 in San Lorenzo, California (the site; Figure 1). The purpose of the report is to provide the information requested by the Alameda County Department of Environmental Health (ACDEH) to obtain case closure. The report has been prepared in accordance with guidelines set forth in the Supplemental Instructions to the State Water Board December 8, 1995 Interim Guidance on Required Cleanup at Low Risk Fuel Sites (RWQCB, 5 January 1996).

The report is divided into eight sections: 1) Introduction, 2) Background and Previous Investigations, 3) Recent Groundwater Sampling Activities, 4) Distribution of Chemicals in Soil and Groundwater, 5) Hydrogeology, 6) Potential Exposure and Risks, 7) Summary and Conclusions, and 8) References.

### **2.0 BACKGROUND AND PREVIOUS INVESTIGATIONS**

The site is located at 16501 Ashland Avenue in San Lorenzo, California and covers approximately two acres. The site is relatively flat and is covered by buildings, asphalt, and landscaping. A 2000 gallon gasoline underground storage tank (UST) was removed from the site by AATR Enterprise in April 1993 and the pump and piping associated with the tank were removed by Trump Brothers in October 1995. Gasoline-containing soil and groundwater were reportedly observed in the excavation at the time of the tank removal and the excavations were backfilled with imported fill.

Seven phases of work have been conducted at the site since the UST was removed. In November 1994, Tetra Tech, Inc. drilled 10 soil borings, installed three groundwater monitoring wells, and collected and analyzed 30 soil and 12 groundwater samples for total recoverable petroleum hydrocarbons (TPRH), total petroleum hydrocarbons (TPH) as gasoline, TPH as diesel, and benzene, toluene, ethylbenzene, and xylenes (BTEX) (TetraTech, 1993). In April 1995, Geomatrix collected five additional grab-groundwater samples to further delineate the extent of the hydrocarbons previously detected in groundwater (Geomatrix, 1995a). Sampling locations are shown on Figure 2; analytical results are presented in Tables 1 through 3, and on Figures 3 through 5; and discussed in Section 4.0.

Four rounds of groundwater monitoring have been conducted on the wells (July 1993; May 1995; August 1995, and August 1996) and two additional grab groundwater samples were collected in November 1996. The methodology and results of the most recent sampling events are provided in the next section. The recent results are described in Section 3.0, included in Tables 2 and 3, and presented on Figure 6. All of the results from the site investigations are summarized in Section 4.0.

### **3.0 RECENT GROUNDWATER SAMPLING ACTIVITIES**

Recent groundwater sampling activities include both monitoring well sampling and grab-groundwater sampling. The field methods for each sampling event are described in Section 3.1; the results are presented in Section 3.2.

#### **3.1 SAMPLING METHODOLOGY**

Monitoring Well Samples: The three existing monitoring wells were sampled on 9 August 1996. To remove water from the well casing prior to collecting samples, four casing volumes were removed from the wells with a diaphragm pump and PVC tubing. New PVC tubing was used at each well. The temperature, pH, and specific conductance of the purged groundwater were measured periodically during purging. These parameters stabilized and the produced water was visually clear prior to sample collection.

Groundwater samples were collected from the wells with disposable polyethylene bailers rinsed with deionized water immediately before sampling. Samples were collected by lowering the bailer below the water surface to approximately mid-screen level. The water in the bailer was then carefully poured into EPA-approved containers, properly labeled, placed in an ice-chilled cooler, and delivered to a state-certified analytical laboratory under Geomatrix chain-of-custody procedures.

Grab-Groundwater Samples: Two grab-groundwater samples were collected on 21 November 1996 by Vironex, Inc. of Hayward, California using a 2-inch diameter direct push Geoprobe system. Prior to drilling, an underground utility clearance was conducted by downUnder technologies and a drilling permit was obtained from Alameda County Zone 7. A copy of the drilling permit is included in Appendix A.

The boreholes were drilled to 12 feet. During drilling, the Geomatrix field geologist described the soil core on boring logs according to the Unified Soil Classification System noting lithology, color, moisture content, and grain size. The boring logs are included in Appendix B. To collect samples of groundwater from the boreholes, 10 feet of 1-inch diameter PVC screen and 2 feet of blank PVC were placed in the boreholes. After water had accumulated in the casings, 0.75-inch disposable bailers were used to collect the samples. Water from the bailers were carefully poured into EPA-approved containers, properly labeled, placed in an ice-chilled cooler, and delivered to a state-certified analytical laboratory under Geomatrix chain-of-custody procedures.

Sample Analysis: Both the monitoring well samples and the grab-groundwater samples were analyzed by Chromolab, Inc. of Pleasanton, California, for TPHg, BTEX, and methyl tert butyl ether (MTBE) according to EPA Methods 8015 and 8020. Copies of the laboratory reports and chain-of-custody records are included in Appendix C.

### 3.2 RESULTS

TPHg and BTEX were detected in the sample collected from well MW-3 at concentrations of 600 micrograms per liter ( $\mu\text{g/l}$ ), 9.0  $\mu\text{g/l}$ , 1.3  $\mu\text{g/l}$ , 74  $\mu\text{g/l}$ , and 22  $\mu\text{g/l}$ , respectively; no MTBE was detected (Table 2, Figure 6). No hydrocarbons were detected in the grab-groundwater samples collected at the downgradient edge of the site (Table 3), nor in the samples collected from wells MW-1 or MW-2, located transgradient and upgradient of the former tank (Table 2, Figure 6).

### 4.0 DISTRIBUTION OF CHEMICALS IN SOIL AND GROUNDWATER

The extent of petroleum hydrocarbons in soil around the former underground gasoline tank is limited. Ten soil borings were drilled during July 1993 to assess the presence and distribution of petroleum hydrocarbons in shallow soil (Figure 3). These data indicated that only a minor volume of gasoline had spilled into the subsurface. TPHg and BTEX were detected in soil samples collected from only the two borings located to the north of the former tank (B-3 and MW-3; Table 1, Figure 3). Maximum concentrations were detected in the 10 foot sample from boring B-3 (located approximately 7 feet north of the excavation), at 17 milligrams per kilogram (mg/kg) TPHd, 450 mg/kg TPHg, 2.4 mg/kg benzene, 11 mg/kg toluene, 8 mg/kg ethylbenzene, and 8 mg/kg total xylenes. At MW-3, located approximately 25 feet to the north of B-3, the concentrations had decreased to 5.9, 0.19, 0.006, 0.04, and 0.31 mg/kg TPHg, benzene, toluene, ethylbenzene, and xylenes, respectively. No hydrocarbon constituents were detected in samples from B-7, B-9, or B-5 located to the east, west, and south of the excavation, respectively (Figure 3).

The extent of petroleum hydrocarbons in groundwater beneath the former tank area is also limited. Three monitoring wells were installed and 14 grab-groundwater samples were collected in the vicinity of the former tank to assess the presence and distribution of petroleum hydrocarbons in shallow groundwater (at 6 to 9 feet below ground surface [bgs]) and three grab-groundwater samples were collected at 23 feet bgs to assess groundwater quality in a deep sand layer (Figures 4 and 5 present previous results; Figure 6 presents recent results). The only

petroleum constituents detected in groundwater were detected in the shallow groundwater samples collected from borings or wells located just to the north and northwest of the excavation (B-2, B-3, and MW-3, Figure 4). MW-3 is the furthest sampling point from the excavation that showed hydrocarbons in groundwater and is only approximately 30 feet to the north of the excavation. No petroleum constituents were detected in the grab samples collected from B-15, GS-1 or GS-2, located approximately 100 feet to the north (Figure 2).

## 5.0 HYDROGEOLOGY

The stratigraphy at the site consists predominantly of lean clay from ground surface to approximately 4 feet and lean clay with thin interbeds of clayey sand and sand with silt between 4 feet and approximately 22 feet. A sandy layer was encountered between approximately 22 and 27 feet in the three deep borings drilled at the site.

A potentiometric surface map for water levels measured on 9 August 1996 (Table 4) is presented as Figure 7. Horizontal hydraulic gradient direction at this time was north-northeast at a magnitude of 0.007 foot per foot (ft/ft).

Depth to groundwater at the site has ranged from approximately 4.5 to 9 feet below ground surface (Table 4). The predominant flow direction in shallow groundwater has been toward the north but directions ranging from northeast to southwest have been recorded in shallow groundwater (Geomatrix 1995b). Hydraulic gradients have ranged from 0.006 foot per foot (ft/ft) to 0.016 ft/ft (Geomatrix 1995b).

The range in groundwater flow directions at the site may be related to changes in magnitude of recharge effects from San Lorenzo Creek located approximately 700 feet to the south of the site (Figure 1).

## 6.0 POTENTIAL EXPOSURE AND RISKS

A survey of the potential receptors at and in the vicinity of the site was conducted to assess the potential impact of the hydrocarbon constituents currently present in soil and groundwater. The beneficial uses of the surface and groundwaters in the site vicinity were investigated, a well survey was performed, and potential human exposure pathways were identified. The potential impact to the environment was also assessed. The results of this work are presented below.

### 6.1 BENEFICIAL USES

The site is located in the South Bay Basin - Hydrologic Planning Area. Groundwater in the South Bay Basin is used for municipal and domestic water supply (RWQCB, 1995). Surface water is used for wildlife and fish habitat as well as recreation. The closest surface water body to the site is the San Lorenzo Creek which lies approximately 700 feet to the south in a generally upgradient direction from the site (Figure 1). This creek transfers water from Don Castro Lake in the hills 3.5 miles to the east of the site to San Francisco Bay (3 miles to the west). The creek is considered both a cold and warm freshwater habitat for fish migration and spawning, a habitat for wildlife, and accessible for water contact and non-water contact recreation (RWQCB, 1995). Water in the creek is used for fresh water replenishment and ground water recharge. Potential for impact to this creek by the constituents in groundwater beneath the site is highly unlikely based on the fact that the creek is located upgradient of the site.

The closest surface water body to the north (downgradient) of the site is Lake Chabot, which is located at higher elevations approximately 3 miles from the site. Potential for impact to this lake from the site is highly unlikely.

### 6.2 WELL SURVEY

A well survey was conducted to assess the potential for human contact with the hydrocarbons in groundwater detected beneath the site. Based on data provided by the Alameda County Department of Public Works, within a half mile radius of the site, there are 27 wells permitted

for irrigation, 4 wells permitted for domestic supply, 23 wells used for monitoring, 1 test well, and 1 cathodic protection well. A summary of the well information obtained from the county for the area within a quarter mile of the site is presented in Table 5; the identified wells are shown on Figure 8.

North and northeast of the site (the predominant downgradient direction), there are three permitted domestic supply wells, 6 wells permitted for irrigation, and 3 monitoring wells. The closest wells to the tank area at the site are irrigation wells located approximately 400 feet to the north and 300 feet to the southeast (Figure 8).

### **6.3 POTENTIAL RISK TO HUMANS**

The petroleum constituents in soil at the site are located directly beneath the excavation of the former gasoline tank and near the water table (at approximately 10 feet below ground surface) downgradient (to the north) of the former tank. The excavation has been backfilled and covered with a concrete slab. The area surrounding the former tank is paved with asphalt. Direct contact with petroleum-containing soil at the site is unlikely.

Direct contact with site groundwater is also unlikely. Groundwater is not used for drinking at or in the immediate vicinity of the site. Recent investigations have shown that the gasoline constituents in groundwater are degrading and have not migrated. Impact to downgradient domestic and/or irrigation supply wells is unlikely.

The only potential exposure pathway to chemicals at the site is through inhalation of volatile constituents emanating from groundwater through 10 feet of vadose zone soil and the overlying concrete slab or asphalt pavement. Because the concentrations of volatile constituents in groundwater at the site are very low (the maximum concentration of benzene detected in site groundwater last August 1996 was 9 µg/l, the potential impact to ambient air at the site from groundwater is extremely low and unlikely to pose an unacceptable risk to human health at the site.

#### 6.4 POTENTIAL IMPACT TO THE ENVIRONMENT

Based on the historical groundwater data for samples collected from well MW-3, which have shown steadily decreasing concentrations of gasoline constituents over time, and the lack of constituents in the grab-groundwater samples collected downgradient of MW-3 (collected in July 1993, April 1995, and November 1996), the petroleum hydrocarbons from the former tank appear to be degrading in place and not migrating significantly. The impact to the environment from the former tank is low.

#### 7.0 SUMMARY AND CONCLUSIONS

An underground gasoline storage tank was removed from the site in 1993. Soil and groundwater samples collected in the vicinity of the former tank have shown that hydrocarbons in the subsurface are limited in extent; TPHg and BTEX in groundwater have not extended beyond the property boundary (approximately 100 feet from the former tank) in at least the past 3.5 years and have shown steadily decreasing concentrations over time. Based on the ongoing degradation and low hydraulic gradient at the site, impact to downgradient surface water or groundwater wells from the former tank at the site is unlikely in the future.

For these reasons, we believe the site does not pose a threat to human health or the environment. We believe the site qualifies as a "Low Risk Groundwater Case" as described by the RWQCB (1996) and recommend the site be closed with respect to environmental issues.



## 8.0 REFERENCES

- Geomatrix Consultants, Inc., 1995a, Groundwater Investigation and Quarterly Monitoring Report, National Guard Organizational Maintenance Shop No. 35, 16501 Ashland Avenue, San Lorenzo, California, July.
- Geomatrix Consultants, Inc., 1995b, Quarterly Monitoring Report July - September 1995, National Guard Organizational Maintenance Shop No. 35, 16501 Ashland Avenue, San Lorenzo, California, October.
- RWQCB, 1995, The Water Quality Control Plan (Basin Plan) San Francisco Bay Basin Region (2).
- RWQCB, 1996, Regional Board Supplemental Instructions to State Water Board December 8, 1995, Interim Guidance on Required Cleanup at Low-Risk Fuel Sites, 5 January.
- TetraTech, Inc., 1993, Letter report to Homer Lin of the Office of the State Architect, presenting the cost of additional drilling, results of feasibility study, and options for the existing diesel tank at the Department of the Military's Organizational Contract UT 048R, Work Order MAR 112, Assignment I, 29 September.

TABLE 1

**ANALYTICAL RESULTS<sup>1</sup> FOR PETROLEUM HYDROCARBONS AND LEAD IN SOIL SAMPLES<sup>2</sup>**  
**COLLECTED FROM SOIL BORINGS DRILLED JULY 7, 8, AND 9, 1993**  
 National Guard Organizational Maintenance Shop No. 35  
 San Lorenzo, California

Page 1 of 2

Sample Number	Depth (feet)	TRPH <sup>3</sup> (418.1) (mg/kg)	TPHd <sup>4</sup> (8015mod) (mg/kg)	TPHg <sup>5</sup> (8015mod) (mg/kg)	Organic Pb <sup>6</sup> (22 CAC) (mg/kg)	Total Pb (7420) (mg/kg)	Benzene (8020) (mg/kg)	Toluene (8020) (mg/kg)	Ethylbenzene (8020) (mg/kg)	Xylene (8020) (mg/kg)	PID (ppm)
B1-5	5.0-5.5	ND <sup>7</sup>	ND	ND	NA <sup>8</sup>	NA	ND	ND	ND	ND	0.6
B1-9.5&10	9.5-10.5	ND	ND	ND	ND	17	ND	ND	ND	ND	0.3
B1-15	15.0-15.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0.4
B1-20	20.0-20.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0.4
B2-5	5.0-5.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0.3
B2-9.5&10	9.5-10.5	ND	ND	ND	ND	10	ND	ND	ND	ND	0.6
B2-15	15.0-15.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0.6
B3-5	5.0-5.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0
B3-9.5&10	9.5-10.5	82	17	450	ND	13	2.4	11	8	8	151
B3-15	15.0-15.5	19	ND	7	NA	NA	0.066	0.32	0.2	0.75	54
B3-20	20.0-20.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0
B5-5	5.0-5.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0
B5-10	10.0-10.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0
B5-15	15.0-15.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0
B7-5	5.0-5.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0
B7-10	10.0-10.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0
B7-15	15.0-15.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0
B9-5	5.0-5.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0
B9-10	10.0-10.5	ND	NA	ND	NA	NA	ND	ND	ND	ND	0
B13-9.5&10	9.5-10.5	ND	ND	5.9	ND	17	0.19	0.006	0.04	0.31	6.4
B13-15	15.0-15.5	ND	ND	ND	NA	NA	ND	ND	ND	0.008	2.8
B14-10	10.0-10.5	ND	NA	ND	NA	NA	ND	ND	ND	ND	0

**TABLE 1**
**ANALYTICAL RESULTS<sup>1</sup> FOR PETROLEUM HYDROCARBONS AND LEAD IN SOIL SAMPLES<sup>2</sup>  
 COLLECTED FROM SOIL BORINGS DRILLED JULY 7, 8, AND 9, 1993**

 National Guard Organizational Maintenance Shop No. 35  
 San Lorenzo, California

Sample Number	Depth (feet)	TRPH <sup>3</sup> (418.1) (mg/kg)	TPHd <sup>4</sup> (8015mod) (mg/kg)	TPHg <sup>5</sup> (8015mod) (mg/kg)	Organic Pb <sup>6</sup> (22 CAC) (mg/kg)	Total Pb (7420) (mg/kg)	Benzene (8020) (mg/kg)	Toluene (8020) (mg/kg)	Ethylbenzene (8020) (mg/kg)	Xylene (8020) (mg/kg)	PID (ppm)
B14-15	15.0-15.5	ND	NA	ND	NA	NA	ND	ND	ND	ND	0
B15-5	5.0-5.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0
B15-10	10.0-10.5	ND	NA	ND	NA	NA	ND	ND	ND	ND	0
B15-15	15.0-15.5	ND	NA	ND	NA	NA	ND	ND	ND	ND	0
B16-5	5.0-5.5	ND	NA	ND	NA	NA	ND	ND	ND	ND	0
B16-10	10.0-10.5	ND	NA	ND	NA	NA	ND	ND	ND	ND	0
B16-15	15.0-15.5	ND	NA	ND	NA	NA	ND	ND	ND	ND	0
B17-25	25.0-25.5	ND	ND	ND	NA	NA	ND	ND	ND	ND	0
Detection Limit:		10	5	1	1	1	0.005	0.005	0.005	0.005	---
Average <sup>9</sup>		3.37	0.77	15.43	ND	14.25	0.09	0.38	0.27	0.30	7.20
Maximum		82	17	450	ND	17	2.4	11	8	8	151
Minimum		ND	ND	ND	ND	10	ND	ND	ND	ND	0

- 1 TetraTech, 1994.
- 2 Only soil samples which had detectable concentrations of TPHg were analyzed for lead.
- 3 TRPH = total recoverable petroleum hydrocarbons
- 4 TPHd = total petroleum hydrocarbons as diesel
- 5 TRPg = total petroleum hydrocarbons as gasoline.
- 6 Pb = lead
- 7 ND = not detected at or above detection limit
- 8 NA = not analyzed for this analyte
- 9 Averages are computed assuming that ND = 0 mg/kg



TABLE 2

**MONITORING WELL ANALYTICAL RESULTS<sup>1</sup>**  
National Guard Organizational Maintenance Shop  
San Lorenzo, California

Concentrations in micrograms per liter ( $\mu\text{g/l}$ )

Sample No.	Date Collected	TPHd <sup>2</sup>	TPHg <sup>3</sup>	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE <sup>4</sup>
MW-1	7/14/93	ND <sup>5</sup>	ND	ND	ND	ND	ND	NA <sup>6</sup>
	5/3/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/11/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/9/96	NA	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-2	7/14/93	ND	ND	ND	ND	ND	ND	NA
	5/3/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/11/95	<50	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/9/96	NA	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-3	7/14/93	<200	4100	ND	ND	640	ND	NA
	5/3/95	<50	600	18	4.2	27	110	NA
	8/11/95	<50	710	11	3.2	23	110	NA
	8/9/96	NA	600	9.0	1.3	22	74	<5

Notes:

- <sup>1</sup> Chemical analyses performed by Chromalab, Inc., of Pleasanton, California. Laboratory analytical reports detailing the analyses performed, method detection limits for each constituent, and analytical results are included in Appendix A.
- <sup>2</sup> TPHd = total petroleum hydrocarbons as diesel. Analysis by modified EPA Method 8015.
- <sup>3</sup> TPHg = total petroleum hydrocarbons as gasoline. Analysis by modified EPA Method 8015.
- <sup>4</sup> MTBE = methyl tert butyl ether
- <sup>5</sup> ND = not detected at or above detection limit; detection limit for these samples is unknown. Sampling conducted and performed by TetraTech, Inc.
- <sup>6</sup> NA = not analyzed.

TABLE 3

**GRAB GROUNDWATER SAMPLE ANALYTICAL RESULTS**  
 National Guard Organizational Maintenance Shop No. 35  
 San Lorenzo, California

Sample I.D.	Zone	Date	TPHg <sup>1</sup>	TPHd <sup>2</sup>	Benzene	Toluene	Ethyl-benzene	Xylenes	
B1	S	7/93	ND	ND	ND	ND	ND	ND	
B2	S	7/93	61	<50	0.6	2.1	62	0.8	
B3	S	7/93	110,000	<50	3400	7600	2600	10,000	
B5	S	7/93	ND	ND	ND	ND	ND	ND	
B7	S	7/93	ND	ND	ND	ND	ND	ND	
B9	S	7/93	ND	ND	ND	ND	ND	ND	
B13	S	7/93	free product						
B14	S	7/93	ND	ND	ND	ND	ND	ND	
B15	S	7/93	ND	ND	ND	ND	ND	ND	
B16	S	7/93	ND	ND	ND	ND	ND	ND	
B17	D	7/93	ND	ND	ND	ND	ND	ND	
GP1	S	4/95	ND	ND	ND	ND	ND	ND	
GP2	S	4/95	ND	ND	ND	ND	ND	ND	
GP3	S	4/95	ND	ND	ND	ND	ND	ND	
GP4	S	4/95	ND	ND	ND	ND	ND	ND	
GP5	D	4/95	ND	ND	ND	ND	ND	ND	
GS1	S	11/96	ND	ND	ND	ND	ND	ND	
GS2	S	11/96	ND	ND	ND	ND	ND	ND	

Notes:

- <sup>1</sup> TPHg = total petroleum hydrocarbons as gasoline.
- <sup>2</sup> TPHd = total petroleum hydrocarbons as diesel.

TABLE 4

**HISTORICAL WATER LEVEL MEASUREMENTS**  
 National Guard Organizational Maintenance Shop  
 San Lorenzo, California

Well No.	Date	Depth Below TOC <sup>1</sup> (feet)	TOC Elevation (feet, msl <sup>2</sup> )	Groundwater Elevation (feet, msl)
MW-1	11/22/94	8.92	35.53	26.61
	1/6/95	8.31	35.53	27.22
	4/20/95	5.12	35.53	30.41
	5/3/95	5.34	35.53	30.19
	6/9/95	6.14	35.53	29.39
	7/18/95	6.55	35.53	28.98
	8/11/95	7.13	35.53	28.40
	9/8/95	7.61	35.53	27.92
	8/9/96	6.73	35.53	28.80
MW-2	11/22/94	9.41	36.32	26.91
	1/6/95	8.50	36.32	27.82
	4/20/95	6.16	36.32	30.16
	5/3/95	6.13	36.32	30.19
	6/9/95	6.92	36.32	29.40
	7/18/95	7.47	36.32	28.85
	8/11/95	7.90	36.32	28.42
	9/8/95	8.38	36.32	27.94
	8/9/96	7.51	36.32	28.81
MW-3	11/22/95	7.89	34.54	26.65
	1/6/95	7.03	34.54	27.51
	4/20/95	4.55	34.54	29.99
	5/3/95	4.70	34.54	29.84
	6/9/95	5.51	34.54	29.03
	7/18/95	9.00	34.54	25.54
	8/11/95	6.48	34.54	28.06
	9/8/95	6.90	34.54	27.64
	8/9/96	6.10	34.54	28.44

Notes:

- <sup>1</sup> TOC = Top of casing (measuring point).
- <sup>2</sup> msl = Above mean sea level.

TABLE 5

WELL SURVEY  
Vicinity of 16501 Ashland Avenue

Map I.D. #	Well I.D. # <sup>1</sup>	Well Owner & Address	Type, Number of Wells on Site	Depth <sup>2</sup>	Casing <sup>3</sup> Size	Year Installed	Approximate Distance and Direction from Site <sup>4</sup>
1	3S/2W - 7H01	Kawahara Nursery 16550 Ashland Avenue San Lorenzo	Irrigation, 2	72 65	6 8	1949 6/88	300 SE
2	3S/2W - 7H02	Junction Nursery 16467 Ashland Avenue San Lorenzo	Irrigation, 1	75	10	1929	400 N
3	3S/2W - 7A07	Mello 16464 Ashland Avenue San Lorenzo	Domestic, 1	60	6	?	600 N
4	3S/2W - 7A05	Repose 16435 Ashland Avenue San Lorenzo	Domestic, 1	50	6	1909	700N
5	3S/2W - 7A08	Smith 16414 Ashland Avenue San Lorenzo	Domestic, 1	68	6	1918	800 N
6	3S/2W - 7G11 3S/2W - 7G12	San Lorenzo Unified School District 50 E. Lewelling Boulevard San Lorenzo	Domestic, 1 Irrigation, 1	194 610	6 11	9/91 8/91	1000 SW
7	3S/2W - 7A02	Wolf 786 Elgin Street San Leandro	Irrigation, 1	40	?	1938	1100 NE
8	3S/2W - 7A06	Salvadore 863 Elgin Street San Leandro	Irrigation, 1	49	8	9/49	1300 NE

TABLE 5

WELL SURVEY  
Vicinity of 16501 Ashland Avenue

Map I.D. #	Well I.D. # <sup>1</sup>	Well Owner & Address	Type, Number of Wells on Site	Depth <sup>2</sup>	Casing <sup>3</sup> Size	Year Installed	Approximate Distance and Direction from Site <sup>4</sup>
9	3S/2W - 7G14	Ultramar Beacon #721, Econo Gas, Du Pont Biosystems, Conoco, Inc. 44 Lewelling Boulevard San Lorenzo	Monitoring, 12	30	2	10/91	1300 SW
	3S/2W - 7G15			30	2	10/91	
	3S/2W - 7G16			39	6	10/91	
	3S/2W - 8F01			36	2	1987	
	3S/2W - 8F02			37	2	1987	
	3S/2W - 8F03			37	2	1987	
	3S/2W - 7G04			30	2	12/88	
	3S/2W - 7G05			30	2	12/88	
	3S/2W - 7G06			30	2	12/88	
	3S/2W - 7G07			27	2	12/88	
	3S/2W - 7G08			22	2	9/89	
	3S/2W - 7G09			24	2	9/89	
10	3S/2W - 7J03	Buti 16901 Meekland Avenue San Lorenzo	Irrigation, 1	110	8	1920	1500 SE
11	3S/2W - 7J08	Kurt Teschke 15939 Via Cordoba San Leandro	Irrigation, 1	37	6	11/77	1500 SW
12	3S/2W - 7A04	McClelland 878 Elgin Street San Lorenzo	Irrigation, 1	125	6	?	1600 NE
13	3S/2W - 8E01	Gonsalves 16638 Kent Avenue San Lorenzo	Irrigation, 1	90	8	1918	1600 E
14	3S/2W - 7J01	Bayside Nursery 16955 Meekland Avenue San Leandro	Irrigation, 1	130	8	1938	1800 SE



TABLE 5

## WELL SURVEY

Vicinity of 16501 Ashland Avenue

Page 3 of 5

Map I.D. #	Well I.D. # <sup>1</sup>	Well Owner & Address	Type, Number of Wells on Site	Depth <sup>2</sup>	Casing <sup>3</sup> Size	Year Installed	Approximate Distance and Direction from Site <sup>4</sup>
15	3S/2W - 7G22 3S/2W - 7G23 3S/2W - 7G24 3S/2W - 7G25	Southland Corporation 100 Lewelling Boulevard San Lorenzo	Monitoring, 4	30 30 30 30	4 4 4 4	11/92 11/92 11/92 11/92	1800 SW
16	3S/2W - 7J05	H. Hylton 165 Lewelling Boulevard San Lorenzo	Irrigation, 1	80	8	1947	1800 SW
17	3S/2W - 7J04	Buehler 177 Lewelling Boulevard San Lorenzo	Irrigation, 1	65	8	1946	1800 SW
18	3S/2W - 7A03	Manual Cabral 16284 Ashland Avenue San Lorenzo	Irrigation, 1	42	8	?	1800 N
19	3S/2W - 8E03	George Reppond 467 E. Lewelling Boulevard San Leandro	Irrigation, 1	60	8	11/80	1800 SE
20	3S/2W - 8D02 3S/2W - 8D04 3S/2W - 8D05 3S/2W - 8D06	Kuramoto Nursery, Plant Unlimited 16450 Kent Avenue Hayward	Irrigation, 1 Monitoring, 3	100 18 18 19	10 2 2 2	1952 11/92 11/92 11/92	1800 NE
21	3S/2W - 7F02	Frank Maciel 15594 Sharon Street San Leandro	Irrigation, 1	27	4	1955	1900 SW
22	3S/2W - 8M01	Schragl 477 E. Lewelling Boulevard San Leandro	Irrigation, 1	70	10	1941	2000 SE

TABLE 5

 WELL SURVEY  
 Vicinity of 16501 Ashland Avenue

Map I.D. #	Well I.D. # <sup>1</sup>	Well Owner & Address	Type, Number of Wells on Site	Depth <sup>2</sup>	Casing <sup>3</sup> Size	Year Installed	Approximate Distance and Direction from Site <sup>4</sup>
23	3S/2W - 6R04	Okada Brothers Nursery 16100 Bertero Avenue San Lorenzo	Test Well, 1	17	4	10/90	2100 NW
24	3S/2W - 8M02	Shimamura 16980 Harvard Avenue San Leandro	Irrigation, 1	58	8	?	2100 SE
25	3S/2W - 8F04	Dublin/San Ramon Sanitary E. Lewelling Boulevard & Wickman Court Hayward	Cathodic Protection, 1	100	?	3/89	2200 SE
26	3S/2W - 6J03	Ken Krentz 1115 Santa Ana Street San Leandro	Irrigation, 1	26	4	7/77	2200 NE
27	3S/2W - 6R01	J. Fidelgo 16239 Ashland Avenue San Leandro	Irrigation, 1	70	4	1940	2200 N
28	3S/2W - 6P04	Alan Massey 533 Rutgers Street San Lorenzo	Irrigation, 1	25	?	3/77	2300 NW
29	3S/2W - 7C01	Stenezel Sycamore Street San Lorenzo	Irrigation, 1	270	10	1935	2400 W
30	3S/2W - 7F01	Charles Gonsavles 15559 Usher Street San Lorenzo	Irrigation, 1	25	?	?	2500 W
31	3S/2W - 7F03	Unocal Station 376 Lewelling Boulevard San Lorenzo	Monitoring, 1	30	3	2/88	2500 SW

**TABLE 5**

**WELL SURVEY**  
Vicinity of 16501 Ashland Avenue

Map I.D. #	Well I.D. # <sup>1</sup>	Well Owner & Address	Type, Number of Wells on Site	Depth <sup>2</sup>	Casing <sup>3</sup> Size	Year Installed	Approximate Distance and Direction from Site <sup>4</sup>
32	3S/2W - 6P03	Arthur Maxwell 538 Rutgers Street San Leandro	Irrigation, 1	21	4	1977	2600 W
33	3S/2W - 6Q01	Ernest Carbal 717 Videll Street San Lorenzo	Irrigation, 1	13	4	1956	2600 NW
34	3S/2W - 6J04 3S/2W - 6J05 3S/2W - 6R02 3S/2W - 6J06	Okada Property Citation Builders 16109 Ashland Avenue San Lorenzo	Monitoring, 3 Irrigation, 1	13 13 440 16	2 2 12 2	3/89 3/89 10/47 8/89	2600 N

<sup>1</sup> Well I.D. numbers are generated according to their location in the rectangular system of the Public Land Survey.

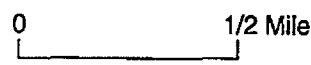
<sup>2</sup> Depths of wells are in feet.

<sup>3</sup> Casing size of wells is in inches.

<sup>4</sup> Distance from site is in feet.



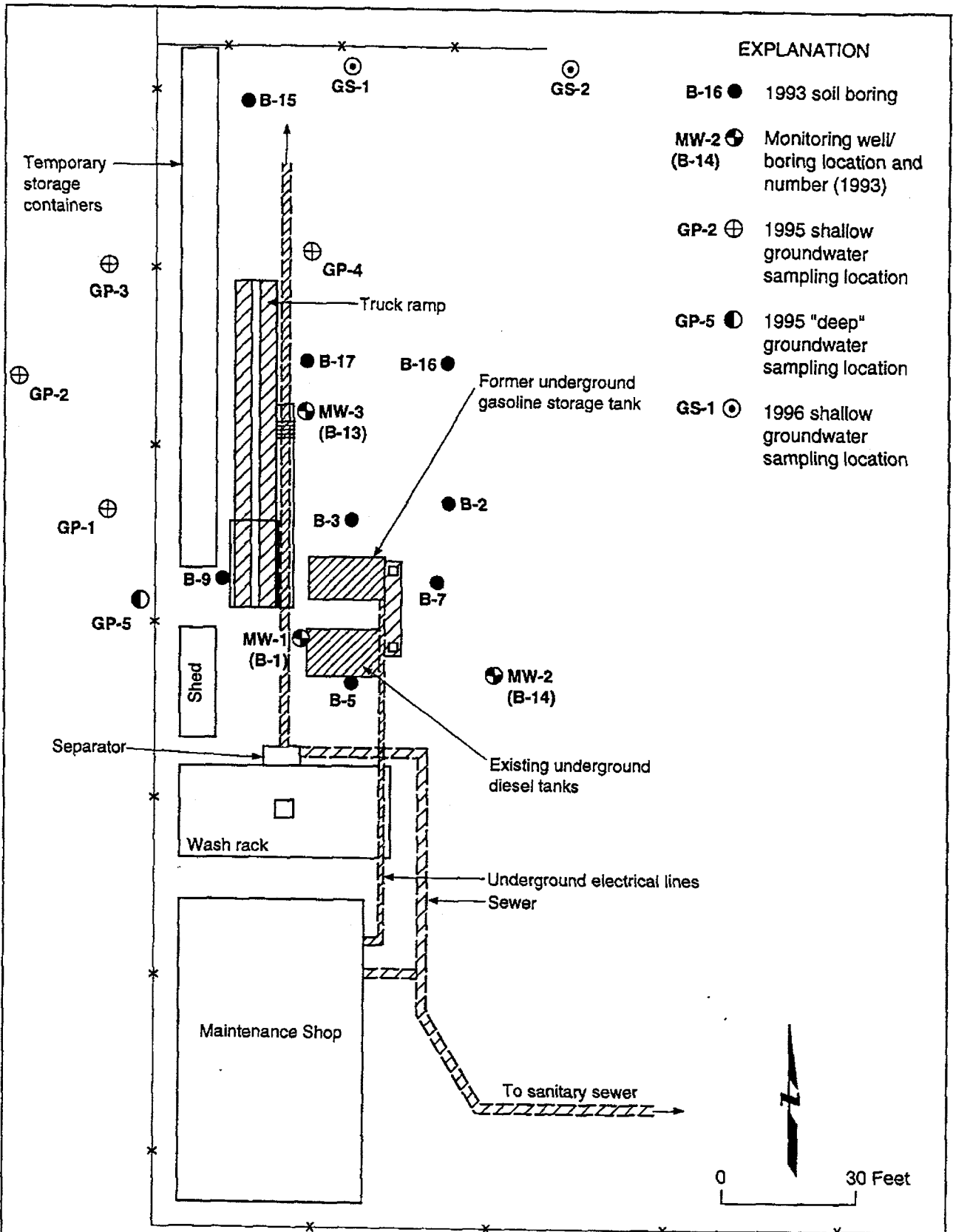
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**SITE LOCATION MAP**  
 National Guard Organization Maintenance Shop No. 35  
 16501 Ashland Avenue  
 San Lorenzo, California

Figure  
 1

Project No.  
 2868



Reference: Tetra Tech, Inc., 1993

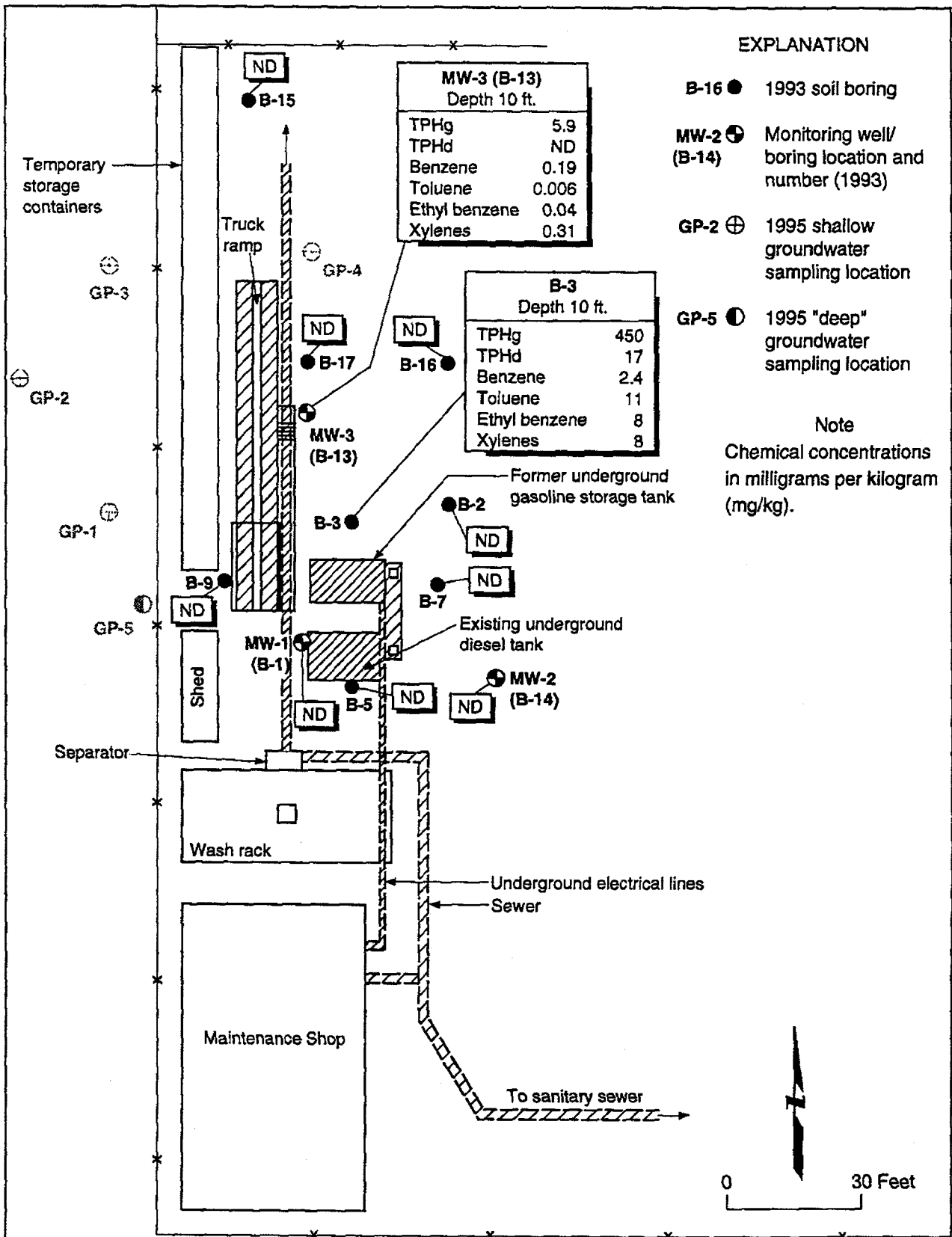


**SUBSURFACE SAMPLING LOCATIONS**  
 National Guard Organizational Maintenance Shop #35  
 16501 Ashland Avenue  
 San Lorenzo, California

Figure  
2

Project No.  
2868.03

2868 03 002



Reference: Tetra Tech, Inc., 1993

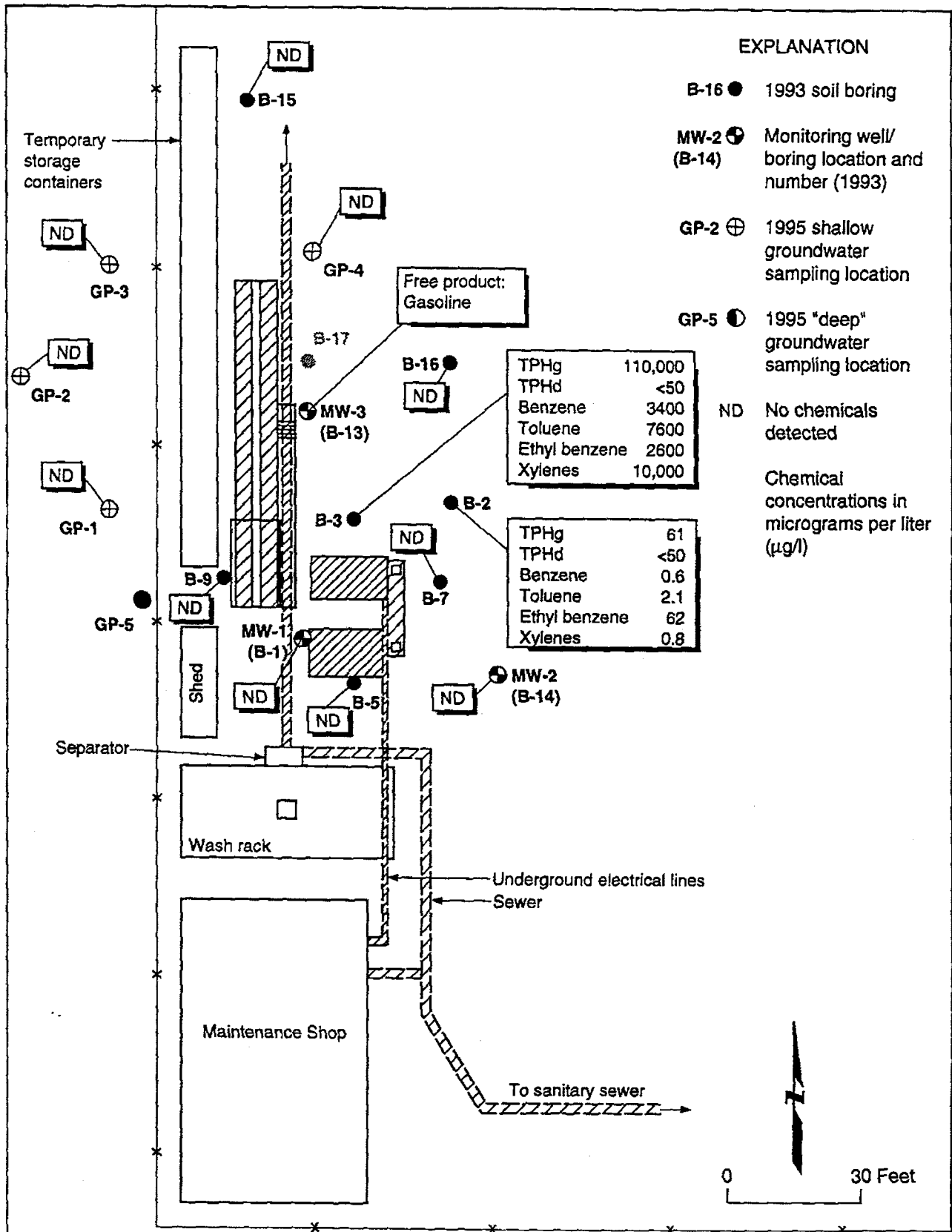
2868.03.003



**MAXIMUM CONCENTRATIONS DETECTED IN SOIL**  
 National Guard Organizational Maintenance Shop #35  
 16501 Ashland Avenue  
 San Lorenzo, California

Figure  
3

Project No.  
2868.03



Reference: Tetra Tech, Inc., 1993

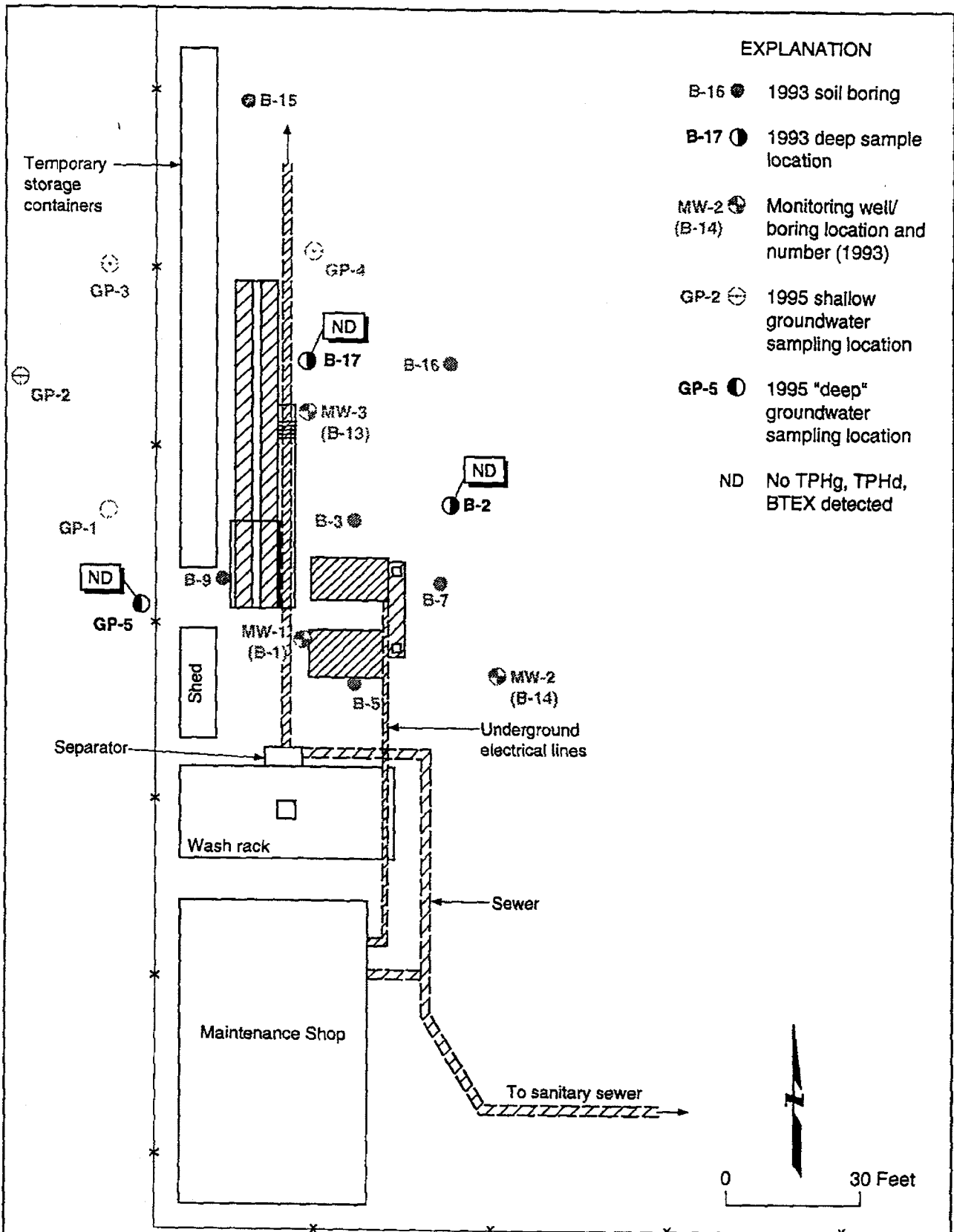


PREVIOUS SHALLOW GRAB GROUNDWATER RESULTS  
 JULY 1993 AND APRIL 1995  
 National Guard Organizational Maintenance Shop #35  
 San Lorenzo, California

Figure  
4

Project No.  
2868.03

2868.01.004



Reference: Tetra Tech, Inc., 1993

2868.03 005

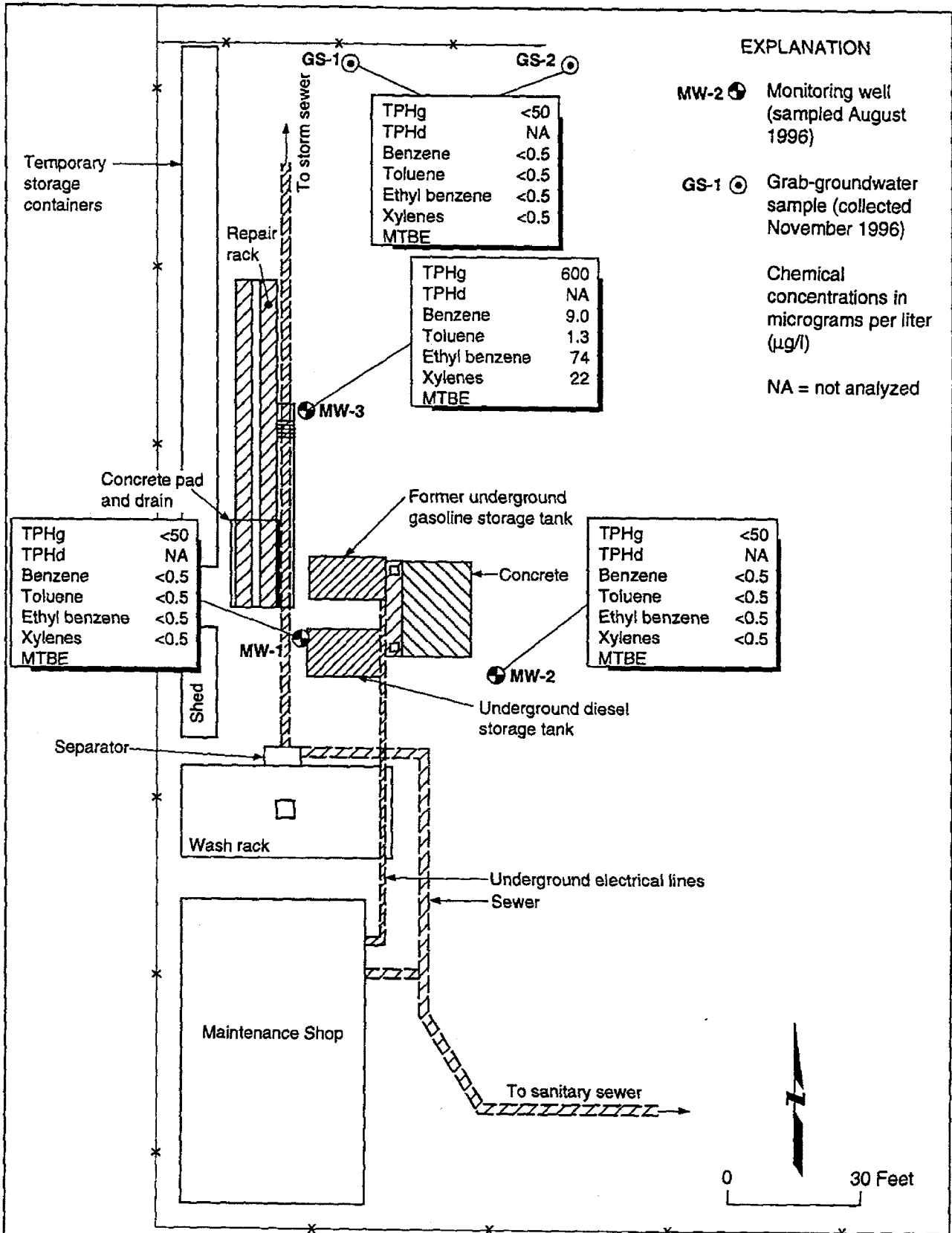


**PREVIOUS "DEEP" GRAB GROUNDWATER RESULTS**  
 JULY 1993 AND APRIL 1995  
 National Guard Organizational Maintenance Shop #35  
 San Lorenzo, California

Figure  
 5

Project No.  
 2868.03





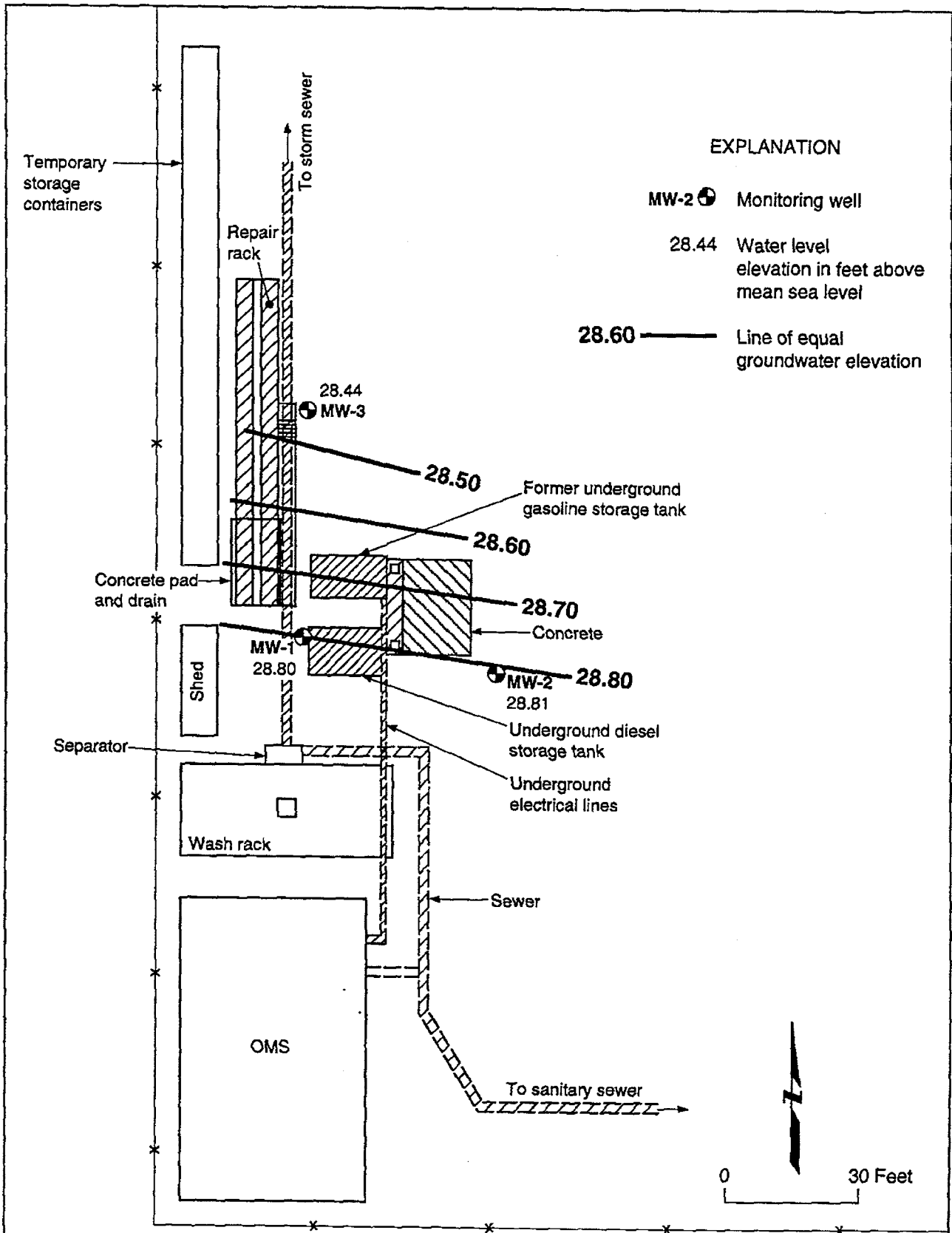
Reference: Tetra Tech, Inc., 1993

2868.03.006



**RECENT GROUNDWATER RESULTS**  
 National Guard Organizational Maintenance Shop No. 35  
 San Lorenzo, California

Figure  
 6  
 Project No.  
 2868.03



Reference: Tetra Tech, Inc., 1993

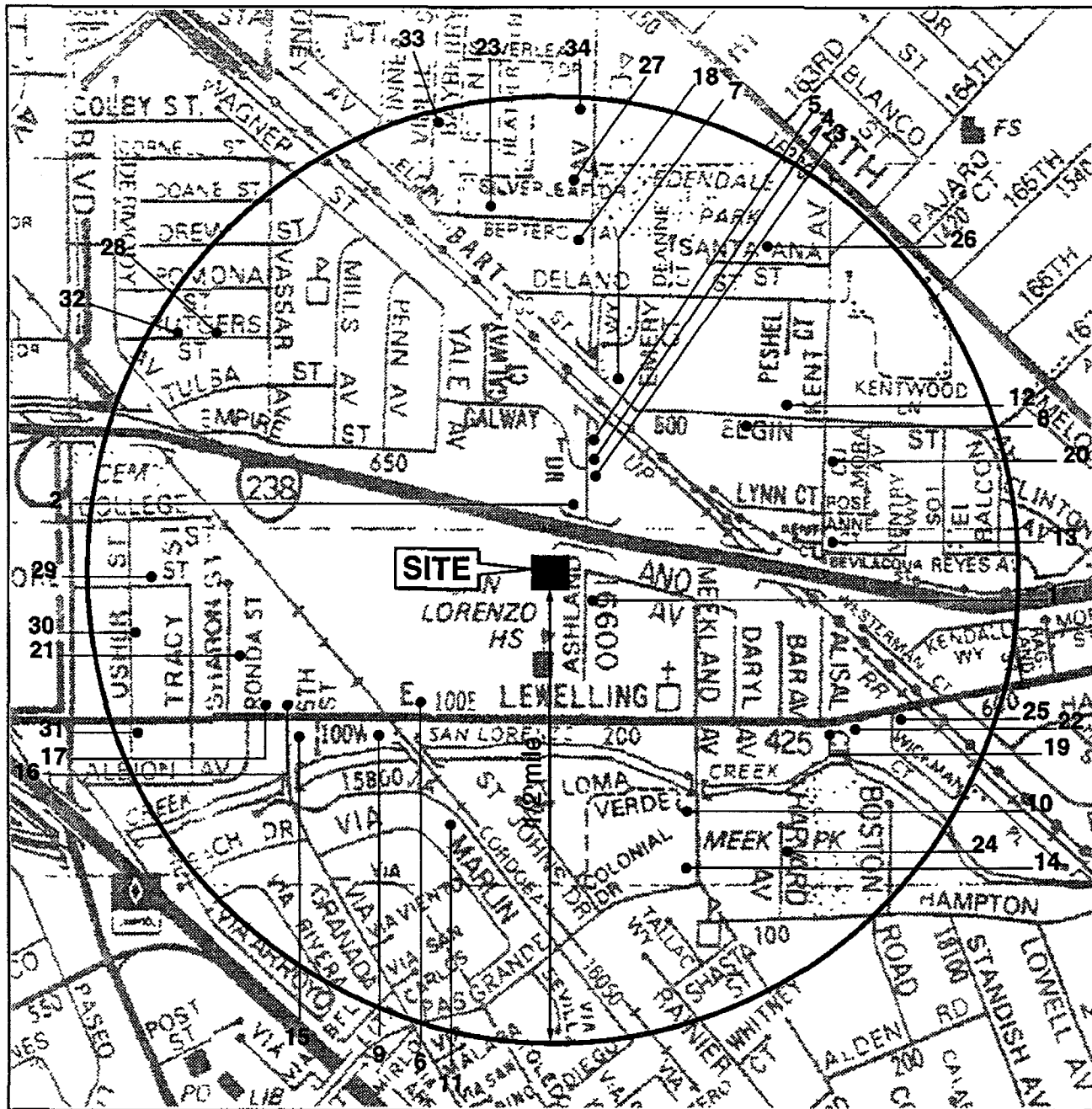
2868.03.007



POTENTIOMETRIC SURFACE MAP - 9 AUGUST 1996  
 National Guard Organizational Maintenance Shop No. 35  
 16501 Ashland Avenue  
 San Lorenzo, California

Figure  
7

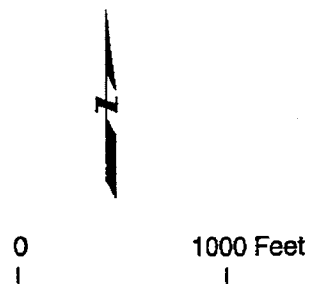
Project No.  
2868.03



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**EXPLANATION**

21 ● Approximate location of well. See Table 5 for detailed information.



**WELL SURVEY**  
 National Guard Organization Maintenance Shop No. 35  
 16501 Ashland Avenue  
 San Lorenzo, California

Figure  
 8  
 Project No.  
 2868

**APPENDIX A**

**Drilling Permit for Grab-Groundwater Samples**



# ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600  
FAX (510) 462-3914

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT National Guard  
16501 Ashland Ave  
SAN LORENZO CA

PERMIT NUMBER 96823  
LOCATION NUMBER \_\_\_\_\_

CLIENT  
Name Division of the State Architect  
Address 1300 I Street Suite 800 Phone (916) 445 6939  
City Sacramento CA Zip 95814

### PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT  
Name Geomatrix Consultants  
Address 100 Pine St 10th floor Phone 415 434-9400  
City San Francisco Zip CA  
Fax: 415 434-1365

### A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection	General
Water Supply	Contamination <u>X</u>
Monitoring	Well Destruction

### B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

Domestic	Industrial	Other
Municipal	Irrigation	

- C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremie cement grout shall be used in place of compacted cuttings.

DILLING METHOD:

Aud Rotary	Air Rotary	Auger
Cable	Other	<u>Geoprobe Direct push</u>

- D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.
- E. WELL DESTRUCTION. See attached.

DRILLER'S LICENSE NO. \_\_\_\_\_

WELL PROJECTS

Drill Hole Diameter	_____ in.	Maximum
Casing Diameter	_____ in.	Depth
Surface Seal Depth	_____ ft.	Number

GEOTECHNICAL PROJECTS

Number of Borings	<u>2</u>	Maximum
Hole Diameter	<u>2</u> in.	Depth
		<u>20</u> ft.

ESTIMATED STARTING DATE 11-21-96  
ESTIMATED COMPLETION DATE 11-22-96

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wyman Hong Date 20 Nov 96  
Wyman Hong

APPLICANT'S SIGNATURE Wm D. Rowne Date 11-17-96

**APPENDIX B**

Boring Logs

PROJECT: NATIONAL GUARD - SAN LORENZO San Lorenzo, California		<b>Log of Boring No. GP-20/GS1</b>	
BORING LOCATION: North of MW-3, 4 feet from fence		ELEVATION AND DATUM: Ground surface	
DRILLING CONTRACTOR: Vironex		DATE STARTED: 11/21/96	DATE FINISHED: 11/21/96
DRILLING METHOD: Direct push		TOTAL DEPTH: 12 feet	MEASURING POINT: ---
DRILLING EQUIPMENT: Geoprobe		DEPTH TO WATER: ---	FIRST --- COMPL ---
SAMPLING METHOD: 4-foot core barrel		LOGGED BY: N. Taylor	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: Lisa Rowles	REG. NO. RG 4559

DEPTH (feet)	SAMPLES				OVM Reading (ppm)	DESCRIPTION <small>NAME (USCS Symbol) color, moist, % by weight, plast., consistency, structure, cementation, react. w/HCl, geo. inter.</small>	REMARKS
	Sample No.	Sample	Blows/ Foot	Foot			
Surface Elevation: ---							
1						POORLY-GRADED SAND WITH GRAVEL (SP-SM) 60% sand, 30% gravel, 10% fines [FILL]	
2						LEAN CLAY (CL) Very dark grayish brown (10YR 3/2), moist, 90% medium plasticity fines, 10% fine sand, soft, medium dry strength	
3							
4							
5							
6						Color change to grayish brown (2.5Y 5/2), very soft	
7						Increase in moisture	
8						Color change to very dark gray (2.5Y 3/1)	
9						SILTY SAND (SM) Dark grayish brown (2.5Y 4/2), wet, 85% fine to medium sand, 15% fines	
10						CLAYEY SAND transition zone	
11						LEAN CLAY (CL) Very dark gray (10YR 3/1), wet, 95% medium plasticity fines, 5% fine sand, stiff	
12						Bottom of boring at 12 feet	
13							
14							
15							

PROJECT: NATIONAL GUARD - SAN LORENZO San Lorenzo, California				<b>Log of Boring No. GP-21/GS2</b>			
BORING LOCATION: 50 feet east of B-20				ELEVATION AND DATUM: Ground surface			
DRILLING CONTRACTOR: Vironex				DATE STARTED: 11/21/96		DATE FINISHED: 11/21/96	
DRILLING METHOD: Direct push				TOTAL DEPTH: 12 feet		MEASURING POINT: ---	
DRILLING EQUIPMENT: Geoprobe				DEPTH TO WATER:		FIRST 9.0 feet	COMPL ---
SAMPLING METHOD: 4-foot core barrel				LOGGED BY: N. Taylor			
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: Lisa Rowles		REG. NO. RG 4559	
DEPTH (feet)	SAMPLES			OVM Reading (ppm)	DESCRIPTION	REMARKS	
	Sample No.	Sample	Blows/ Foot		NAME (USCS Symbol): color, moist, % by weight, plast, consistency, structure, cementation, react w/HCl, geo inter		
					Surface Elevation: --		
1					POORLY-GRADED SAND with GRAVEL (SP-SM) Dark brown (10YR 3/2), moist, 60% fine to coarse sand, 30% gravel, 10% fines [FILL]		
2					LEAN CLAY (CL) Very dark grayish brown (10YR 3/2), moist, 90% medium plasticity fines, 10% fine sand, soft, medium dry strength		
3							
4							
5					Zone of 20% sand		
6							
7					Increase in moisture content		
8					Color change to black (10YR 2/1)		
9					SILTY SAND (SM) Dark grayish brown (2.5Y 4/2), wet, 85% fine to medium sand, 15% fines	Water sampling interval 7 to 12 feet	
10					CLAYEY SAND transition zone		
11					LEAN CLAY (CL) Very dark gray (10YR 3/1), wet, 95% medium plasticity fines, 5% fine sand, stiff		
12					Bottom of boring at 12 feet		
13							
14							
15							



**APPENDIX C**

Laboratory Reports and Chain-of-Custody Records

# CHROMALAB, INC.

Environmental Services (SDB)

December 3, 1996

Submission #: 9611278

GEOMATRIX CONSULTANTS  
100 Pine St., Suite 1000  
San Francisco, CA 94111

Attn: Lisa Rowles


RE: Analysis for project 2868.


## REPORTING INFORMATION

Samples were received cold and in good condition on November 21, 1996. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all testing reported.

No discrepancies were observed or difficulties encountered with the testing.

<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date collected</u>	<u>Sample #</u>
EB-1	WTR	November 21, 1996	108304
GP-20 = 651 LDR	WTR	November 21, 1996	108302
GP-21 = 652 LDR	WTR	November 21, 1996	108303

  
Jill Thomas  
Quality Assurance Manager

  
Eric Tam  
Laboratory Director

# CHROMALAB, INC.

Environmental Services (SDB)

December 2, 1996

Submission #: 9611278

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

Project: Not provided  
Received: November 21, 1996

Project#: 2868

re: One sample for Gasoline, BTEX & MTBE analysis.  
Method: EPA 5030/8015M/8020A

Client Sample ID: GP-20 GS-1 *OK*

Spl#: 108302


Matrix: WATER


Sampled: November 21, 1996

Run#: 4225

Analyzed: November 26, 1996

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	75.8	1
BENZENE	N.D.	0.50	N.D.	88.0	1
TOLUENE	N.D.	0.50	N.D.	84.8	1
ETHYL BENZENE	N.D.	0.50	N.D.	85.1	1
XYLENES	N.D.	0.50	N.D.	86.0	1
MTBE	N.D.	5.0	N.D.	81.2	1

  
Kayvan Kimyai  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

December 2, 1996

Submission #: 9611278

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

Project: Not provided  
Received: November 21, 1996

Project#: 2868

re: One sample for Gasoline, BTEX & MTBE analysis.  
Method: EPA 5030/8015M/8020A

Client Sample ID: GP-21 652 *WR*

Spl#: 108303


Matrix: WATER

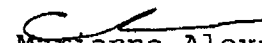
Sampled: November 21, 1996

Run#: 4225

Analyzed: November 26, 1996

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	75.8	1
BENZENE	N.D.	0.50	N.D.	88.0	1
TOLUENE	N.D.	0.50	N.D.	84.8	1
ETHYL BENZENE	N.D.	0.50	N.D.	85.1	1
XYLENES	N.D.	0.50	N.D.	86.0	1
MTBE	N.D.	5.0	N.D.	81.2	1

  
Kayvan Kimyai  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

December 2, 1996

Submission #: 9611278

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

Project: 2868

Received: November 21, 1996

re: **Matrix spike** report for Gasoline, BTEX & MTBE analysis.

Method: EPA 8015M SW846 8020A Nov 1990

Matrix: WATER

Lab Run#: 4225

Instrument: 3400-5

Analyzed: November 26, 1996

Analyte	Spiked		Amt Found		Spike Recov		Control Limits	% RPD	% Lim	
	Sample Amount (ug/L)	Spike Amt MS MSD (ug/L)	MS MSD (ug/L)	MS MSD (%) (%)						
BENZENE	ND	20.0	20.0	19.4	18.8	96.8	93.8	65-135	3.15	20
TOLUENE	ND	20.0	20.0	18.6	18.1	93.2	90.7	65-135	2.72	20
ETHYL BENZENE	ND	20.0	20.0	18.9	18.5	94.4	92.5	65-135	2.03	20
XYLENES	ND	60.0	60.0	56.4	54.9	94.0	91.5	65-135	2.70	20
MTBE	ND	20.0	20.0	16.7	16.7	83.5	83.5	65-135	0	20

Sample Spiked: 108183

Submission #: 9611262

Client Sample ID: MW-17

# CHROMALAB, INC.

Environmental Services (SDB)

December 2, 1996

Submission #: 9611278

GEOMATRIX CONSULTANTS

Atten: Lisa Rowles

Project: 2868

Received: November 21, 1996

re: **Surrogate** report for 2 samples for Gasoline, BTEX & MTBE

Method: EPA 8015M SW846 8020A Nov 1990

Lab Run#: 4225

Matrix: WATER

<u>Sample#</u>	<u>Client Sample ID</u>	<u>Surrogate</u>	<u>% Recovered</u>	<u>Recovery Limits</u>
108302-1	GP-20	TRIFLUOROTOLUENE	97.0	65-135
108302-2	GP-20	TRIFLUOROTOLUENE	93.3	65-135
108303-1	GP-21	TRIFLUOROTOLUENE	98.4	65-135
108303-2	GP-21	TRIFLUOROTOLUENE	94.7	65-135

<u>Sample#</u>	<u>QC Sample Type</u>	<u>Surrogate</u>	<u>% Recovered</u>	<u>Recovery Limits</u>
108802-1	Reagent blank (MDB)	TRIFLUOROTOLUENE	77.7	65-135
108803-1	Spiked blank (BSP)	TRIFLUOROTOLUENE	80.1	65-135
108805-1	Matrix spike (MS)	TRIFLUOROTOLUENE	102	65-135
108806-1	Matrix spike duplicate (MSD)	TRIFLUOROTOLUENE	100	65-135

V125  
QCSURR1229 KAYVAN 02-Dec-96 17

# CHROMALAB, INC. SAMPLE RECEIPT CHECKLIST

Client Name Geomatrix Date/Time Received 11/21/96  
 Project 2868 Received by B. Morrow Date \_\_\_\_\_ Time \_\_\_\_\_  
 Reference/Subm # 30872/9611278 Carrier name \_\_\_\_\_  
 Checklist completed by: S. Antone 12/3/96 Logged in by MP 11/21/96  
 Signature / Date Initials / Date Matrix W  
DUPLICATE

Shipping container in good condition? NA  Yes \_\_\_\_\_ No \_\_\_\_\_  
 Custody seals present on shipping container? Intact \_\_\_\_\_ Broken \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_  
 Custody seals on sample bottles? Intact \_\_\_\_\_ Broken \_\_\_\_\_ Yes \_\_\_\_\_ No   
 Chain of custody present? Yes  No \_\_\_\_\_  
 Chain of custody signed when relinquished and received? Yes  No \_\_\_\_\_  
 Chain of custody agrees with sample labels? Yes  No \_\_\_\_\_  
 Samples in proper container/bottle? Yes  No \_\_\_\_\_  
 Samples intact? Yes  No \_\_\_\_\_  
 Sufficient sample volume for indicated test? Yes  No \_\_\_\_\_  
 VOA vials have zero headspace? NA \_\_\_\_\_ Yes  No \_\_\_\_\_  
 Trip Blank received? RCD Equip Blank NA \_\_\_\_\_ Yes \_\_\_\_\_ No   
 All samples received within holding time? Yes  No \_\_\_\_\_  
 Container temperature? 4.5°C  
 pH upon receipt \_\_\_\_\_ pH adjusted \_\_\_\_\_ Check performed by: \_\_\_\_\_ NA


Any NO response must be detailed in the comments section below. If items are not applicable, they should be marked NA.

Client contacted? \_\_\_\_\_ Date contacted? \_\_\_\_\_  
 Person contacted? \_\_\_\_\_ Contacted by? \_\_\_\_\_  
 Regarding? \* ph will be checked by chemist  
 Comments: \_\_\_\_\_

Corrective Action: \_\_\_\_\_

278/108302-708304

30872

Chain-of-Custody Record			No. 7028		Date 11/21/96		Page 1 of 1										
Project No. 2868			ANALYSES				REMARKS										
Samplers (Signatures): Nathaniel A. Taylor			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	MTBE	HOLD	Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments	
Date	Time	Sample Number															
11/21	1115	GP-20					X	X	X			X	W	Y	3	① HOLD EB-1 ② Gas, BTEX, MTBE by EPA method 8020.	
11/21	1000	GP-21					X	X	X			Y	W	Y	3		
11/21	1100	EB-1								X		X	W	Y	3		
SUBN #: 0611278 REP: PMI.EVR																	
CLIENT: GEOMATRIX																	
DUE: 12/02/96																	
REF #: 30872																	
			Turnaround time: Standard			Results to: LISA ROWLS			Total No. of containers: 9						③ Fax results to: Lisa Rowls C 415-434-1365		
Relinquished by: Nathaniel A. Taylor		Date: 11/21/96	Relinquished by:		Date:	Relinquished by:		Date: 11/21/96	Method of shipment: Pickup		Laboratory comments and Log No						
Signature: NATHANIEL A. TAYLOR			Signature:			Signature:											
Printed name: GEOMATRIX			Printed name:			Printed name:											
Company:			Company:			Company:											
Received by:		Time: 1925	Received by:		Time:	Received by:		Time: 1925									
Signature:			Signature:			Signature:											
Printed name:			Printed name:			Printed name:											
Company:			Company:			Company:											
											 <b>Geomatrix Consultants</b> 100 Pine St 10th Floor San Francisco, CA 94111 (415) 434 9400						



(0:JOBCHECK)

# ORDER ENTRY CHECK FORM

ENTERED BY: MIMIE  
SALES REP: PM  
REFERENCE #: 30872  
QUOTATION #: 0  
CONF TO REC: Y  
RECV'D COLD: Y

9611278

SUBMIS #: 9611278 CLIENT ID: GEOMATRIX  
CLIENT: GEOMATRIX CONSULTANTS  
PROJ MGR: Lisa Rowles  
PROJECT:

REPORT TYPE: LEV2  
PROJECT#: 2868  
DATE RECEIVED: 11/21/96  
PURCHASE #:

0 11/22/96 14:11

CLIENT SPL ID: GP-20  
DATE SAMPLED: 11/21/96  
COMMENT:

DUE DATE: 12/02/96 MATRIX: WATER  
RUSH: 0 CONTAINERS: 3  
SUB NOTE:

SPL#: 108302

8015/8020 GAS/BTEX/MTBE- PURGEABLE AROMATICS WATER

TEST NUMBER: V125

LOGGED: 11/21/9

CLIENT SPL ID: GP-21  
DATE SAMPLED: 11/21/96  
COMMENT:

DUE DATE: 12/02/96 MATRIX: WATER  
RUSH: 0 CONTAINERS: 3  
SUB NOTE:

SPL#: 108303

8015/8020 GAS/BTEX/MTBE- PURGEABLE AROMATICS WATER

TEST NUMBER: V125

LOGGED: 11/21/9

CLIENT SPL ID: EB-1  
DATE SAMPLED: 11/21/96  
COMMENT:

DUE DATE: 12/02/96 MATRIX: WATER  
RUSH: 0 CONTAINERS: 3  
SUB NOTE:

SPL#: 108304

HOLD

TEST NUMBER: 1207

LOGGED: 11/21/9

*✓ GL*

*\_\_\_\_\_*

# **APPENDIX F**

## **DRILLING PERMIT**

# Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street  
Hayward, CA 94544-1395  
Telephone: (510)670-6633 Fax:(510)782-1939

**Application Approved on: 08/03/2009 By jamesy**

**Permit Numbers: W2009-0692**  
**Permits Valid from 08/13/2009 to 08/14/2009**

**Application Id:** 1248889825547  
**Site Location:** 16501 Ashland Avenue  
**Project Start Date:** 08/13/2009  
**Assigned Inspector:** Contact John Shouldice at (510) 670-5424 or johns@acpwa.org

**City of Project Site:** San Lorenzo

**Completion Date:** 08/14/2009

**Applicant:** Kleinfelder - Omar Khan  
4670 Willow Road, Suite 100, Pleasanton, CA 94588  
**Property Owner:** San Lorenzo Unified School District  
15510 Usher Street, San Lorenzo, CA 94580  
**Client:** \*\* same as Property Owner \*\*

**Phone:** 925-484-1700 x4534

**Phone:** --

	<b>Total Due:</b>	\$265.00
<b>Receipt Number: WR2009-0287</b>	<b>Total Amount Paid:</b>	\$265.00
<b>Payer Name : Kleinfelder Pleasanton The</b>	<b>PAID By: MC</b>	<b>PAID IN FULL</b>
<b>Kleinfelder Group</b>		

**Works Requesting Permits:**

Borehole(s) for Investigation-Geotechnical Study/CPT's - 10 Boreholes  
Driller: Exploration GeoServices & California Push Technologies C57 884827 - Lic  
#: 484288 - Method: hstem

**Work Total: \$265.00**

**Specifications**

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2009-0692	08/03/2009	11/11/2009	10	8.00 in.	50.00 ft

**Specific Work Permit Conditions**

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

## Alameda County Public Works Agency - Water Resources Well Permit

5. Applicant shall contact John Shouldice for an inspection time at 510-670-5424 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
6. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
7. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

---

Borehole(s) for Investigation-Geotechnical Study/CPT's - 0 Boreholes

Driller: California Push Technologies - Lic #: 884827 - Method: CPT

**Work Total: \*\* \$0.00**

**\*\* Cancelled Work. Total amount adjusted. \*\***

### Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
* Cancelled *			1	4.00 in.	50.00 ft

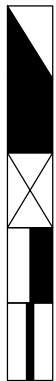
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# **APPENDIX G**

## **SOIL BORING LOGS**

# UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		LTR	ID	DESCRIPTION	MAJOR DIVISIONS		LTR	ID	DESCRIPTION
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY		GW		FINE GRAINED SOILS	SILTS AND CLAYS		ML	
			GP					CL	
			GM					OL	
			GC					MH	
	SAND AND SANDY		SW			SILTS AND CLAYS		CH	
			SP					OH	
			SM						
			SC						
					HIGHLY ORGANIC SOILS			Pt	



- Standard Penetration Split Spoon Sampler 2.0 inch O.D., 1.4 inch I.D.
- Modified California Sampler 2.5 inch O.D., 2.0 inch I.D.
- Bulk Sample
- California Sampler, 3.0 inch O.D., 2.5 inch I.D.
- Shelby Tube 3.0 inch O.D.



Approximate water level first observed in boring. Time recorded in reference to a 24 hour clock.



Approximate water level observed in boring following drilling

- PEN      Pocket Penetrometer reading, in tsf
- TV:Su    Torvane shear strength, in ksf
  
- LL        Liquid Limit
- PI        Plasticity Index
- %-#200   Sieve Analysis (#200 Screen)
- DS        Direct Shear
- C         Cohesion (psf)
- PHI       Friction Angle
  
- UC        Unconfined Compression
- TxUU     Triaxial Shear
- CONSOL   Consolidation
- R-Value   Resistance Value
- SE        Sand Equivalent
- EI        Expansion Index
- FS        Free Swell (U.S.B.R.)

Notes: Blow counts represent the number of blows a 140-pound hammer falling 30 inches required to drive a sampler through the last 12 inches of an 18 inch penetration, unless otherwise noted.

The lines separating strata on the logs represent approximate boundaries only. The actual transition may be gradual. No warranty is provided as to the continuity of soil strata between borings. Logs represent the soil section observed at the boring location on the date of drilling only.

	<h2 style="margin: 0;">BORING LOG LEGEND</h2> <p style="margin: 0;">MEASURE O CAMPUS ADDITIONS SAN LORENZO HIGH SCHOOL 16501 ASHLAND AVENUE SAN LORENZO, CALIFORNIA</p>	PLATE          <b>B-1</b>
PROJECT NO.      105356		

Date Completed: 8/13/09 Drilling method: 8" Hollow Stem Auger

Logged By: N. Berner

Total Depth: Approximately 20.5 ft Hammer Wt: 140 lbs., 30" drop  
 Notes: Drilled on Asphaltic-Concrete pavement

Depth,ft	FIELD		LABORATORY				Pen, tsf	DESCRIPTION
	Sample	Blows/ft	Dry Density pcf	Moisture Content %	Compress. Strength tsf	Other Tests		
								Surface Elevation: <b>Estimated 38.0 feet (MSL)</b>
								<b>ASPHALT CONCRETE</b> - approximately 2-inches thick
								<b>AGGREGATE BASEROCK</b> - approximately 6-inches thick
			99	21.7			1.3-1.8	<b>SILTY LEAN CLAY (CL)</b> - olive-gray, moist, firm to hard, medium plasticity, trace fine grained sand
5	12						2.3	- hard
10	16						1.8-2.0	- hard
15	17							
	12							
15	12						0.5-1.5	- carbonate nodules
20	14						0.5	- yellow, wet, soft to firm, increase in carbonate nodules
								Boring terminated at approx. 20.5 feet below ground surface. Backfilled with cement grout
25								
30								



PROJECT NO. 105356

**LOG OF BORING NO. B-1**

MEASURE O CAMPUS ADDITIONS  
 SAN LORENZO HIGH SCHOOL  
 16501 ASHLAND AVENUE  
 SAN LORENZO, CALIFORNIA

PLATE

**B-2**

Date Completed: **8/13/09** Drilling method: **8" Hollow Stem Auger**

Logged By: **N. Berner**

Total Depth: **Approximately 20.0 ft** Hammer Wt: **140 lbs., 30" drop**

Notes: **Drilled on Asphaltic-Concrete pavement**

Depth,ft	FIELD		LABORATORY				Pen, tsf	DESCRIPTION
	Sample	Blows/ft	Dry Density pcf	Moisture Content %	Compress. Strength tsf	Other Tests		
								Surface Elevation: <b>Estimated 38.0 feet (MSL)</b>
1.0-1.8			100	19.6				<b>ASPHALT CONCRETE</b> - approximately 1-inch thick <b>AGGREGATE BASEROCK</b> - approximately 6-inches thick <b>SANDY LEAN CLAY (CL)</b> - olive-yellow, moist, firm, low plasticity, fine grained sand
5	6						1.5	<b>SILTY LEAN CLAY (CL)</b> - olive-gray, moist, hard, low to medium plasticity  - increase in fine grained sand content
10	11		94	24.9	1.17 @ 15.0%		1.0	
15	10						2.0	- olive, decrease in sand content
18							1.5	- gray, firm to hard, carbonate traces
20	12						2.0	- yellow, wet, firm to hard, trace fine grained sand, carbonate traces
20	15							Boring terminated at approx. 20 feet below ground surface. Backfilled with cement grout
25								
30								



PROJECT NO. 105356

**LOG OF BORING NO. B-2**

MEASURE O CAMPUS ADDITIONS  
 SAN LORENZO HIGH SCHOOL  
 16501 ASHLAND AVENUE  
 SAN LORENZO, CALIFORNIA

PLATE

**B-3**



Date Completed: **8/13/09**

Drilling method: **8" Hollow Stem Auger**

Logged By: **N. Berner**

Hammer Wt: **140 lbs., 30" drop**

Total Depth: **Approximately 25.0 ft**

Notes: **Drilled On Soil and Grass**

Depth,ft	FIELD		LABORATORY				Pen, tsf	DESCRIPTION
	Sample	Blows/ft	Dry Density pcf	Moisture Content %	Compress. Strength tsf	Other Tests		
								Surface Elevation: <b>Estimated 38.0 feet (MSL)</b>
12	12		80	10.6		LL=29; PI=13	1.8	<b>SILTY LEAN CLAY (CL)</b> - yellow, dry to moist, hard, low plasticity, trace fine grained sand, rootlets, porous structure
5	12		95	17.0			4.2	
10	14						1.4	- dark brown, moist, firm to hard
15	16						1.5	- gray-brown
20	11						1.3-1.5	
25	18						0.3	- olive-yellow, soft, iron oxide staining
25	21						2.1	- hard, iron oxide staining
30								Boring terminated at approx. 25 feet below ground surface. Backfilled with cement grout

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PROJECT NO. 105356

**LOG OF BORING NO. B-3**

MEASURE O CAMPUS ADDITIONS  
 SAN LORENZO HIGH SCHOOL  
 16501 ASHLAND AVENUE  
 SAN LORENZO, CALIFORNIA

PLATE

**B-4**

8/28/2009 9:06:04 AM

Date Completed: **8/13/09**

Drilling method: **8" Hollow Stem Auger**

Logged By: **N. Berner**

Hammer Wt: **140 lbs., 30" drop**

Total Depth: **Approximately 25.0 ft**

Notes: **Drilled on Asphaltic-Concrete pavement**

Depth, ft	FIELD		LABORATORY				Pen, tsf	DESCRIPTION
	Sample	Blows/ft	Dry Density pcf	Moisture Content %	Compress. Strength tsf	Other Tests		
Surface Elevation: <b>Estimated 38.0 feet (MSL)</b>								
0							ASPHALT CONCRETE - approximately 2-inch thick	
0							AGGREGATE BASEROCK - approximately 6-inches thick	
0							SANDY LEAN CLAY (CL) - olive-yellow, moist, firm, low plasticity, fine grained sand	
11	11		100	20.9	1.65 @ 12.4%	LL=38; PI=22		
17	17							
11	11						- brown, firm	
12	12						- olive	
13	13							
17	17						- olive-yellow, manganese oxide staining, iron oxide staining, trace fine grained sand	
35	35						SILTY SAND (SM) - olive-yellow, wet, medium dense to dense, fine grained sand	
							POORLY GRADED SAND with GRAVEL (SP) brown, wet, medium dense, coarse grained sand, fine subrounded gravel	
Boring terminated at approx. 25 feet below ground surface. Backfilled with cement grout								



**LOG OF BORING NO. B-4**

MEASURE O CAMPUS ADDITIONS  
 SAN LORENZO HIGH SCHOOL  
 16501 ASHLAND AVENUE  
 SAN LORENZO, CALIFORNIA

PLATE

**B-5**

PROJECT NO. 105356

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8/28/2009 9:06:04 AM

# UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		LTR	ID	DESCRIPTION	MAJOR DIVISIONS	LTR	ID	DESCRIPTION
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY		GW	Well-graded gravels or gravel with sand, little or no fines.	FINE GRAINED SOILS		ML	Inorganic silts and very fine sands, rock flour or clayey silts with slight plasticity.
			GP	Poorly-graded gravels or gravel with sand, little or no fines.			CL	Inorganic lean clays of low to medium plasticity, gravelly clays, sandy clays, silty clays.
			GM	Silty gravels, silty gravel with sand mixture.			OL	Organic silts and organic silt-clays of low plasticity.
			GC	Clayey gravels, clayey gravel with sand mixture.			MH	Inorganic elastic silts, micaceous or diatomaceous or silty soils.
	SAND AND SANDY		SW	Well-graded sands or gravelly sands, little or no fines.			CH	Inorganic fat clays (high plasticity).
			SP	Poorly-graded sands or gravelly sands, little or no fines.			OH	Organic clays of medium high to high plasticity.
			SM	Silty sand.			Pt	Peat and other highly organic soils.
			SC	Clayey sand.				
						SILTS AND CLAYS		
						SILTS AND CLAYS		
			HIGHLY ORGANIC SOILS					



Geoprobe, Direct Push Sample

Large Bore Discrete Soil Sampler, 1.5 in. O.D., 1.12 in. I.D.

Modified California Sampler, 2.5 in. O.D., 2 in. I.D.

California Sampler, 3.0 in. dia.

Shelby Tube 3.0 inch O.D.



Blank casing

Screened casing

Cement grout

Bentonite

Sand pack or gravel pack

OVA Organic Vapor Analyzer

PID Total organic vapors (parts per million) measured by a photo-ionization device

FID Total Organic vapors (parts per million) measured by a flame-ionization device

NA Not Applicable

————— Sharp Contact (observed)

----- Inferred Contact (contact not observed)

||||| Gradational Contact (observed)

▽ Water level observed in boring

▼ Stabilized water level

NFWE No free water encountered

Notes: Blow counts represent the number of blows a 140-pound hammer falling 30 inches required to drive a sampler through the last 12 inches of an 18 inch penetration.

The lines separating strata on the logs represent approximate boundaries only. The actual transition may be gradual. No warranty is provided as to the continuity of soil strata between borings. Logs represent the soil section observed at the boring location on the date of drilling only.

References to plasticity of cohesive soils are based on qualitative field observations and not on quantitative field or laboratory tests. Qualitative soil plasticity is noted solely to aid in stratigraphic correlation and is not intended for geotechnical characterization of soils.



## BORING LOG LEGEND

SLUSD - NATIONAL GUARD ARMORY  
16501 ASHLAND AVENUE  
SAN LORENZO, CALIFORNIA

PLATE

**B-0**

PROJECT NO. 105205

Date Completed: **8/13/09** Drilling method: \_\_\_\_\_

Logged By: **N. Berner** \_\_\_\_\_

Total Depth: **18.0 ft** Hammer Wt: \_\_\_\_\_  
 Notes: **Drilled on Asphalt**

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1							<b>ASPHALT CONCRETE</b> - approximately 2-inches thick	
2					0.0		<b>AGGREGATE BASEROCK</b> - approximately 6-inches thick	
3					0.0		<b>SILTY CLAY (CL)</b> - brown, moist, medium stiff, medium plasticity	
4	B- 6-4	⊗			0.0			
5								
6								
7								
8								
9								
10					0.0		<b>SAND (SP)</b> - brown, moist, loose, fine grained sand, medium plasticity	
11					0.0		<b>SILTY CLAY (CL)</b> - gray with light gray mottling, moist, stiff, medium plasticity	
12	B- 6-12	⊗			0.0			10:30 ▽
13					0.0			
14					0.0			
15								
16								
17					0.0		<b>SANDY SILT (SM)</b> - yellowish-brown, wet, loose, fine grained sand	10:25 ▽
18					0.0			
19					0.0			
20							Boring terminated at approx. 18 feet below ground surface. Backfilled with neat cement grout	



PROJECT NO. 105205

**LOG OF BORING NO. B- 6**

SLUSD - NATIONAL GUARD ARMORY  
 16501 ASHLAND AVENUE  
 SAN LORENZO, CALIFORNIA

PLATE

**B-1**

Date Completed: **8/13/09** Drilling method: \_\_\_\_\_

Logged By: **N. Berner** \_\_\_\_\_

Total Depth: **15.0 ft** Hammer Wt: \_\_\_\_\_  
 Notes: **Drilled on Asphalt**

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1							<b>ASPHALT CONCRETE</b> - approximately 2-inches thick	
2							<b>AGGREGATE BASEROCK</b> - approximately 6-inches thick	
3					0.0		<b>SILTY CLAY (CL)</b> - brown, moist, medium stiff, medium plasticity	
4	B- 8-4	⊗			0.0			
5					0.0			
6					0.0			
7					0.0			
8					0.0			
9					0.0			
10					0.0		<b>SANDY CLAY (CL)</b> - brown, moist, loose, fine grained sand	
11					0.0		<b>SILTY CLAY (CL)</b> - gray with light gray mottling, moist, stiff, medium plasticity	
12	B- 8-12	⊗			0.0			
13								
14								
15							- wet	
16							Boring terminated at approx. 15 feet below ground surface. Backfilled with neat cement grout	14:03 ▽
17								
18								
19								
20								



PROJECT NO. 105205

**LOG OF BORING NO. B- 8**

SLUSD - NATIONAL GUARD ARMORY  
 16501 ASHLAND AVENUE  
 SAN LORENZO, CALIFORNIA

PLATE

**B-2**

Date Completed: **8/13/09** Drilling method: \_\_\_\_\_

Logged By: **N. Berner** \_\_\_\_\_

Total Depth: **16.0 ft** Hammer Wt: \_\_\_\_\_  
 Notes: **Drilled on Asphalt**

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1							<b>ASPHALT CONCRETE</b> - approximately 2-inches thick	
2							<b>AGGREGATE BASEROCK</b> - approximately 6-inches thick	
3							<b>SILTY CLAY (CL)</b> - brown, gray mottling, moist, medium stiff, medium plasticity	
4	B- 9-4	⊗						
5								
6								
7								
8								
9								
10					0.0		<b>SANDY CLAY (CL)</b> - brown, moist, loose, fine grained sand	
11							<b>SILTY CLAY (CL)</b> - gray with light gray mottling, moist, stiff, medium plasticity	
12	B- 9-12	⊗						
13								
14								13:00 ▽
15							- wet	
16							Boring terminated at approx. 16 feet below ground surface. Backfilled with neat cement grout	
17								
18								
19								
20								

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PROJECT NO. 105205

**LOG OF BORING NO. B-9**

SLUSD - NATIONAL GUARD ARMORY  
 16501 ASHLAND AVENUE  
 SAN LORENZO, CALIFORNIA

PLATE

**B-3**

9/8/2009 11:53:15 AM

Date Completed: **8/14/09** Drilling method: \_\_\_\_\_

Logged By: **N. Berner** \_\_\_\_\_

Total Depth: **18.0 ft** Hammer Wt: \_\_\_\_\_  
 Notes: **Drilled on Asphalt**

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1							<b>ASPHALT CONCRETE</b> - approximately 2-inches thick	
2							<b>AGGREGATE BASEROCK</b> - approximately 6-inches thick	
3							<b>SILTY CLAY (CL)</b> - brown, moist, medium stiff, medium plasticity	
4	B-10-4	⊗			0.0			
5					0.0			
6					0.0			
7								
8								
9							- color change gray mottling	
10					0.0			
11					0.0			
12	B-10-12	⊗			0.0		<b>SILTY CLAY (CL)</b> - gray with light gray mottling, moist, stiff, medium plasticity	
13					0.0			
14					0.0			
15					0.0			
16					0.0			
17					0.0			
18					0.0			
19							Boring terminated at approx. 18 feet below ground surface. Backfilled with neat cement grout	9:57 ∇
20								

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PROJECT NO. 105205

**LOG OF BORING NO. B-10**

SLUSD - NATIONAL GUARD ARMORY  
 16501 ASHLAND AVENUE  
 SAN LORENZO, CALIFORNIA

PLATE

**B-4**

9/8/2009 11:53:15 AM

# **APPENDIX H**

**LABORATORY ANALYTICAL REPORTS**





**McC Campbell Analytical, Inc.**

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09-08/14/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Reported: 08/21/09
	Client P.O.:	Date Completed: 08/21/09

**WorkOrder: 0908386**

August 21, 2009

Dear Jim:

Enclosed within are:

- 1) The results of the **23** analyzed samples from your project: **#105205; Armory,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius  
Laboratory Manager  
McC Campbell Analytical, Inc.





2/20

2/2

PROJECT NO. <i>105205</i> <i>105356</i>		PROJECT NAME <i>Armory</i>			NO. OF CONTAINERS	TYPE OF CONTAINERS	ANALYSIS										RECEIVING LAB:				
L.P. NO. (P.O. NO.)	SAMPLERS: (Signature/Number) <i>Nathan Berner</i>			<i>TPH TPH1 TPH2 TPH3 Si in Gas / clean up VOCs Five / Oxidant CAM 17 68110</i>										INSTRUCTIONS/REMARKS							
DATE MM/DD/YY	SAMPLE I.D. TIME HH-MM-SS	SAMPLE I.D.	MATRIX																		
1	<i>8/14/09</i>	<i>0945</i>	<i>B-10-4</i>	<i>S</i>	<i>1</i>	<i>SS</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
2	<i>8/14/09</i>	<i>0952</i>	<i>B-10-12</i>	<i>S</i>	<i>1</i>	<i>SS</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
3	<i>8/14/09</i>	<i>1018</i>	<i>B-10W</i>	<i>W</i>	<i>6</i>	<i>5 samples 1 Analyzed</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>
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*Nathan Berner 8/14/09*

Relinquished by: (Signature) <i>Nathan Berner</i>	Date/Time <i>8/14/09 1600</i>	Received by: (Signature) <i>[Signature]</i>	Instructions/Remarks:	Send Results To: <i>Jim Lehrman</i>
Relinquished by: (Signature)	Date/Time <i>1730</i>	Received by: (Signature) <i>[Signature]</i>		<i>JLehrman@Kleinfelder.com</i>
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		Attn:

# McC Campbell Analytical, Inc.

1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0908386

ClientCode: KFP

WaterTrax    WriteOn    EDF    Excel    Fax    Email    HardCopy    ThirdParty    J-flag

**Report to:**

Jim Lehrman  
Kleinfelder, Inc.  
4670 Willow Road, #100  
Pleasanton, CA 94566  
(925) 484-1700   FAX (925) 484-5838

Email: jlehrman@kleinfelder.com  
cc:  
PO:  
ProjectNo: #105205; Armory

**Bill to:**

Accounts Payable  
Kleinfelder Inc.  
4670 Willow Road, #100  
Pleasanton, CA 94566  
SEND HARDCOPY

**Requested TAT: 5 days**

**Date Received: 08/14/2009**

**Date Printed: 08/14/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0908386-001	B-6-4	Soil	8/13/2009 10:11	<input type="checkbox"/>	A			A			A					
0908386-002	B-6-12	Soil	8/13/2009 10:20	<input type="checkbox"/>	A			A			A					
0908386-003	B-6-W	Water	8/13/2009 10:40	<input type="checkbox"/>		B			A							
0908386-004	B-1-5	Soil	8/13/2009 11:10	<input type="checkbox"/>	A			A			A					
0908386-005	B-1-12	Soil	8/13/2009 11:33	<input type="checkbox"/>	A			A			A					
0908386-006	B-1W	Water	8/13/2009 12:02	<input type="checkbox"/>		B			A							
0908386-007	B-8-4	Soil	8/13/2009 13:45	<input type="checkbox"/>	A			A			A					
0908386-008	B-8-12	Soil	8/13/2009 13:55	<input type="checkbox"/>	A			A			A					
0908386-009	B-8W	Water	8/13/2009 14:20	<input type="checkbox"/>		B			A							
0908386-010	B-9-4	Soil	8/13/2009 12:40	<input type="checkbox"/>	A			A			A					
0908386-011	B-9-12	Soil	8/13/2009 12:53	<input type="checkbox"/>	A			A			A					
0908386-012	B-9W	Water	8/13/2009 13:15	<input type="checkbox"/>		B			A							
0908386-013	B-2-1/2	Soil	8/14/2009 7:08	<input type="checkbox"/>			A									
0908386-014	B-2-3	Soil	8/14/2009 7:16	<input type="checkbox"/>	A			A			A					

**Test Legend:**

1	8260B_S	2	8260B_W	3	ASBESTOS_S	4	CAM17MS_S	5	G-MBTEX_W
6	PBMS_S	7	TPH(DMO)WSG_S	8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 014A, 016A, 017A, 021A, 022A, 023A contain testgroup.

**Prepared by: Ana Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.

# McCampbell Analytical, Inc.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD

WorkOrder: 0908386

ClientCode: KFP

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  Fax   
 Email   
 HardCopy   
 ThirdParty   
 J-flag

**Report to:**  
 Jim Lehrman  
 Kleinfelder, Inc.  
 4670 Willow Road, #100  
 Pleasanton, CA 94566  
 (925) 484-1700    FAX (925) 484-5838

**Email:**    jlehrman@kleinfelder.com  
**cc:**  
**PO:**  
**ProjectNo:** #105205; Armory

**Bill to:**  
 Accounts Payable  
 Kleinfelder Inc.  
 4670 Willow Road, #100  
 Pleasanton, CA 94566  
 SEND HARDCOPY

**Requested TAT:**    **5 days**  
  
**Date Received:**    **08/14/2009**  
**Date Printed:**    **08/14/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0908386-015	B-2-9	Soil	8/14/2009 7:25	<input type="checkbox"/>			A									
0908386-016	B-2-12	Soil	8/14/2009 7:29	<input type="checkbox"/>	A			A			A					
0908386-017	B-2W	Water	8/14/2009 8:00	<input type="checkbox"/>		B			A							
0908386-018	SS-1	Soil	8/14/2009 8:30	<input type="checkbox"/>						A						
0908386-019	SS-2	Soil	8/14/2009 8:41	<input type="checkbox"/>						A						
0908386-020	SS-3	Soil	8/14/2009 8:38	<input type="checkbox"/>						A						
0908386-021	B-10-4	Soil	8/14/2009 9:45	<input type="checkbox"/>	A			A			A					
0908386-022	B-10-12	Soil	8/14/2009 9:52	<input type="checkbox"/>	A			A			A					
0908386-023	B-10W	Water	8/14/2009 10:18	<input type="checkbox"/>		B			A							

**Test Legend:**

1	8260B_S	2	8260B_W	3	ASBESTOS_S	4	CAM17MS_S	5	G-MBTEX_W
6	PBMS_S	7	TPH(DMO)WSG_S	8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 014A, 016A, 017A, 021A, 022A, 023A contain testgroup.

**Prepared by: Ana Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



**Sample Receipt Checklist**

Client Name: **Kleinfelder, Inc.**

Date and Time Received: **8/14/2009 7:29:49 PM**

Project Name: **#105205; Armory**

Checklist completed and reviewed by: **Ana Venegas**

WorkOrder N°: **0908386** Matrix Soil/Water

Carrier: Benjamin Yslas (MAI Courier)

**Chain of Custody (COC) Information**

- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Sample IDs noted by Client on COC? Yes  No
- Date and Time of collection noted by Client on COC? Yes  No
- Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

- Custody seals intact on shipping container/cooler? Yes  No  NA
- Shipping container/cooler in good condition? Yes  No
- Samples in proper containers/bottles? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

- All samples received within holding time? Yes  No
  - Container/Temp Blank temperature Cooler Temp: 5.2°C NA
  - Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted
  - Sample labels checked for correct preservation? Yes  No
  - TTLC Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA
  - Samples Received on Ice? Yes  No
- (Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----

Client contacted:

Date contacted:

Contacted by:

Comments:



# McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Web: www.mcccampbell.com E-mail: main@mcccampbell.com  
Telephone: 877-252-9262 Fax: 925-252-9269

Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/19/09

## Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-001A
Client ID	B-6-4
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	0.013	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

### Surrogate Recoveries (%)

%SS1:	99	%SS2:	96
%SS3:	92		

### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Telephone: 877-252-9262 Fax: 925-252-9269

Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/19/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-002A
Client ID	B-6-12
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

#### Surrogate Recoveries (%)

%SS1:	97	%SS2:	96
%SS3:	92		

#### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.





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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/19/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-004A
Client ID	B-1-5
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

#### Surrogate Recoveries (%)

%SS1:	96	%SS2:	94
%SS3:	92		

#### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



# McC Campbell Analytical, Inc.

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Telephone: 877-252-9262 Fax: 925-252-9269

Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/19/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-005A
Client ID	B-1-12
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

#### Surrogate Recoveries (%)

%SS1:	100	%SS2:	96
%SS3:	95		

#### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Telephone: 877-252-9262 Fax: 925-252-9269

Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/19/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-007A
Client ID	B-8-4
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

#### Surrogate Recoveries (%)

%SS1:	100	%SS2:	101
%SS3:	86		

#### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/19/09

## Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-008A
Client ID	B-8-12
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

### Surrogate Recoveries (%)

%SS1:	98	%SS2:	96
%SS3:	93		

### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Telephone: 877-252-9262 Fax: 925-252-9269

Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/18/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-010A
Client ID	B-9-4
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

#### Surrogate Recoveries (%)

%SS1:	100	%SS2:	96
%SS3:	97		

#### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/19/09

## Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-011A
Client ID	B-9-12
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

### Surrogate Recoveries (%)

%SS1:	98	%SS2:	96
%SS3:	95		

### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/14/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/19/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-014A
Client ID	B-2-3
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

#### Surrogate Recoveries (%)

%SS1:	103	%SS2:	99
%SS3:	82		

Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/14/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/19/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-016A
Client ID	B-2-12
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

#### Surrogate Recoveries (%)

%SS1:	98	%SS2:	96
%SS3:	95		

#### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.





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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/14/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/19/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-021A
Client ID	B-10-4
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

#### Surrogate Recoveries (%)

%SS1:	101	%SS2:	105
%SS3:	86		

#### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/14/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/19/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-022A
Client ID	B-10-12
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

#### Surrogate Recoveries (%)

%SS1:	99	%SS2:	94
%SS3:	94		

#### Comments:

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/18/09
	Client P.O.:	Date Analyzed 08/18/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-003B
Client ID	B-6-W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

#### Surrogate Recoveries (%)

%SS1:	104	%SS2:	99
%SS3:	91		

Comments: b1

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/18/09
	Client P.O.:	Date Analyzed 08/18/09

## Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-006B
Client ID	B-1W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

### Surrogate Recoveries (%)

%SS1:	105	%SS2:	99
%SS3:	89		

Comments: b1

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/18/09
	Client P.O.:	Date Analyzed 08/18/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-009B
Client ID	B-8W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	0.56	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

#### Surrogate Recoveries (%)

%SS1:	105	%SS2:	98
%SS3:	90		

Comments: b1

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/18/09
	Client P.O.:	Date Analyzed 08/18/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-012B
Client ID	B-9W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

### Surrogate Recoveries (%)

%SS1:	106	%SS2:	98
%SS3:	84		

Comments: b1

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/14/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/18/09
	Client P.O.:	Date Analyzed 08/18/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-017B
Client ID	B-2W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

#### Surrogate Recoveries (%)

%SS1:	106	%SS2:	98
%SS3:	84		

Comments: b1

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/14/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/18/09
	Client P.O.:	Date Analyzed 08/18/09

### Volatile Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0908386

Lab ID	0908386-023B
Client ID	B-10W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethylbenzene	ND	1.0	0.5
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5	Freon 113	ND	1.0	10
Hexachlorobutadiene	ND	1.0	0.5	Hexachloroethane	ND	1.0	0.5
2-Hexanone	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	1.5	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	2.9	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	0.51	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

#### Surrogate Recoveries (%)

%SS1:	106	%SS2:	96
%SS3:	81		

Comments: b1

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment





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		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed 08/17/09-08/21/09

### CAM / CCR 17 Metals\*

Lab ID	0908386-001A	0908386-002A	0908386-004A	0908386-005A	Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	B-6-4	B-6-12	B-1-5	B-1-12		
Matrix	S	S	S	S	s	w
Extraction Type	TOTAL	TOTAL	TOTAL	TOTAL	mg/Kg	mg/L

### ICP-MS Metals, Concentration\*

Analytical Method: 6020A

Extraction Method: SW3050B

Work Order: 0908386

Dilution Factor	1	1	1	1	1	1
Antimony	ND	ND	ND	ND	0.5	NA
Arsenic	6.6	4.6	5.8	8.4	0.5	NA
Barium	150	290	180	180	5.0	NA
Beryllium	0.57	0.57	0.57	0.70	0.5	NA
Cadmium	ND	ND	0.27	ND	0.25	NA
Chromium	49	49	51	67	0.5	NA
Cobalt	10	16	10	10	0.5	NA
Copper	22	20	21	28	0.5	NA
Lead	7.5	8.2	7.0	8.2	0.5	NA
Mercury	ND	ND	ND	ND	0.05	NA
Molybdenum	ND	ND	ND	ND	0.5	NA
Nickel	49	56	51	67	0.5	NA
Selenium	ND	ND	ND	ND	0.5	NA
Silver	ND	ND	ND	ND	0.5	NA
Thallium	ND	ND	ND	ND	0.5	NA
Vanadium	48	46	48	61	0.5	NA
Zinc	56	43	52	67	5.0	NA
%SS:	101	104	104	117		

#### Comments

\*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.

WET = Waste Extraction Test (STLC).

DI WET = Waste Extraction Test using de-ionized water.



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### CAM / CCR 17 Metals\*

Lab ID	0908386-007A	0908386-008A	0908386-010A	0908386-011A	Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	B-8-4	B-8-12	B-9-4	B-9-12		
Matrix	S	S	S	S	s	w
Extraction Type	TOTAL	TOTAL	TOTAL	TOTAL	mg/Kg	mg/L

### ICP-MS Metals, Concentration\*

Analytical Method: 6020A

Extraction Method: SW3050B

Work Order: 0908386

Dilution Factor	1	1	1	1	1	1
Antimony	ND	ND	0.55	ND	0.5	NA
Arsenic	7.3	2.8	8.2	4.3	0.5	NA
Barium	190	180	210	300	5.0	NA
Beryllium	0.65	0.78	0.83	0.79	0.5	NA
Cadmium	0.25	ND	0.27	ND	0.25	NA
Chromium	62	65	66	66	0.5	NA
Cobalt	13	6.3	10	16	0.5	NA
Copper	25	26	28	28	0.5	NA
Lead	8.5	7.0	9.1	9.1	0.5	NA
Mercury	ND	ND	ND	ND	0.05	NA
Molybdenum	ND	ND	0.62	ND	0.5	NA
Nickel	62	51	66	64	0.5	NA
Selenium	ND	ND	ND	ND	0.5	NA
Silver	ND	ND	ND	ND	0.5	NA
Thallium	ND	ND	ND	ND	0.5	NA
Vanadium	58	50	61	54	0.5	NA
Zinc	64	56	70	59	5.0	NA
%SS:	121	124	125	124		

#### Comments

\*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

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### CAM / CCR 17 Metals\*

Lab ID	0908386-014A	0908386-016A	0908386-021A	0908386-022A	Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	B-2-3	B-2-12	B-10-4	B-10-12		
Matrix	S	S	S	S	s	w
Extraction Type	TOTAL	TOTAL	TOTAL	TOTAL	mg/Kg	mg/L

### ICP-MS Metals, Concentration\*

Analytical Method: 6020A

Extraction Method: SW3050B

Work Order: 0908386

Dilution Factor	1	1	1	1	1	1
Antimony	0.55	ND	0.51	ND	0.5	NA
Arsenic	8.4	5.7	7.9	4.9	0.5	NA
Barium	160	150	180	220	5.0	NA
Beryllium	0.52	0.60	0.68	0.86	0.5	NA
Cadmium	ND	ND	ND	ND	0.25	NA
Chromium	48	60	60	72	0.5	NA
Cobalt	12	9.8	9.3	11	0.5	NA
Copper	23	21	24	30	0.5	NA
Lead	8.4	7.4	7.9	9.1	0.5	NA
Mercury	ND	ND	ND	ND	0.05	NA
Molybdenum	ND	ND	ND	ND	0.5	NA
Nickel	46	54	55	67	0.5	NA
Selenium	ND	ND	ND	ND	0.5	NA
Silver	ND	ND	ND	ND	0.5	NA
Thallium	ND	ND	ND	ND	0.5	NA
Vanadium	55	51	57	61	0.5	NA
Zinc	60	62	61	65	5.0	NA
%SS:	126	105	111	131		

#### Comments

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	Client Contact: Jim Lehrman	Date Extracted: 08/14/09-08/19/09
	Client P.O.:	Date Analyzed 08/18/09-08/19/09

### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*

Extraction method: SW5030B

Analytical methods: SW8015Bm

Work Order: 0908386

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
001A	B-6-4	S	ND	1	85	
002A	B-6-12	S	ND	1	86	
003A	B-6W	W	ND	1	102	b1
004A	B-1-5	S	ND	1	85	
005A	B-1-12	S	ND	1	90	
006A	B-1W	W	ND	1	100	b1
007A	B-8-4	S	ND	1	85	
008A	B-8-12	S	ND	1	83	
009A	B-8W	W	ND	1	104	b1
010A	B-9-4	S	ND	1	83	
011A	B-9-12	S	ND	1	83	
012A	B-9W	W	ND	1	103	b1
014A	B-2-3	S	ND	1	88	
016A	B-2-12	S	ND	1	89	
017A	B-2W	W	ND	1	102	b1
021A	B-10-4	S	ND	1	91	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	1.0	mg/Kg

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment

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	Client Contact: Jim Lehrman	Date Extracted: 08/14/09-08/19/09
	Client P.O.:	Date Analyzed 08/18/09-08/19/09

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\***

Extraction method: SW5030B

Analytical methods: SW8015Bm

Work Order: 0908386

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comments
022A	B-10-12	S	ND	1	89	
023A	B-10W	W	ND	1	110	b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	1.0	mg/Kg

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment



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	Client P.O.:	Date Analyzed: 08/18/09-08/21/09

### Lead by ICP-MS\*

Extraction method: SW3050B

Analytical methods: 6020A

Work Order: 0908386

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
0908386-018A	SS-1	S	TOTAL	68	1	127	
0908386-019A	SS-2	S	TOTAL	52	1	93	
0908386-020A	SS-3	S	TOTAL	11	1	109	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	TOTAL	0.5	mg/Kg

\*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.  
WET = Waste Extraction Test (STLC).  
DI WET = Waste Extraction Test using de-ionized water.



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	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed: 08/19/09-08/21/09

### Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up\*

Extraction method: SW3510C/3630C/SW3550C/36

Analytical methods: SW8015B

Work Order: 0908386

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
0908386-001A	B-6-4	S	8.3	30	1	109	e7,e2
0908386-002A	B-6-12	S	ND	ND	1	98	
0908386-003A	B-6W	W	ND	ND	1	96	b1
0908386-004A	B-1-5	S	ND	ND	1	96	
0908386-005A	B-1-12	S	6.8	12	1	98	e7,e2
0908386-006A	B-1W	W	96	290	1	93	e7,e2,b1
0908386-007A	B-8-4	S	4.1	10	1	98	e7,e2
0908386-008A	B-8-12	S	2.3	6.1	1	96	e7,e2
0908386-009A	B-8W	W	ND	ND	1	96	b1
0908386-010A	B-9-4	S	ND	ND	1	96	
0908386-011A	B-9-12	S	ND	ND	1	98	
0908386-012A	B-9W	W	ND	ND	1	96	b1
0908386-014A	B-2-3	S	ND	ND	1	98	
0908386-016A	B-2-12	S	ND	ND	1	97	
0908386-017A	B-2W	W	ND	ND	1	97	b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	1.0	5.0	mg/Kg

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

- b1) aqueous sample that contains greater than ~1 vol. % sediment
- e2) diesel range compounds are significant; no recognizable pattern
- e7) oil range compounds are significant



# McC Campbell Analytical, Inc.

"When Quality Counts"

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Kleinfelder, Inc.  4670 Willow Road, #100  Pleasanton, CA 94566	Client Project ID: #105205; Armory	Date Sampled: 08/13/09-08/14/09
		Date Received: 08/14/09
	Client Contact: Jim Lehrman	Date Extracted: 08/14/09
	Client P.O.:	Date Analyzed: 08/19/09-08/21/09

### Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up\*

Extraction method: SW3510C/3630C/SW3550C/36

Analytical methods: SW8015B

Work Order: 0908386

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
0908386-021A	B-10-4	S	1.9	ND	1	106	e2
0908386-022A	B-10-12	S	ND	ND	1	97	
0908386-023A	B-10W	W	ND	ND	1	97	b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	1.0	5.0	mg/Kg

\* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment  
e2) diesel range compounds are significant; no recognizable pattern  
e7) oil range compounds are significant





### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 45123

WorkOrder 0908386

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 0908281-002A			
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	78.4	80	1.91	112	98.4	12.5	60 - 130	30	60 - 130	30
Benzene	ND	0.050	103	105	1.81	94.6	95.3	0.671	60 - 130	30	60 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	76.3	81.3	6.31	72.5	72.9	0.519	60 - 130	30	60 - 130	30
Chlorobenzene	ND	0.050	108	108	0	98	103	4.94	60 - 130	30	60 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	102	103	0.879	92.9	93.5	0.726	60 - 130	30	60 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	92.2	93.4	1.23	84.1	84.8	0.754	60 - 130	30	60 - 130	30
1,1-Dichloroethene	ND	0.050	119	115	3.69	108	111	2.66	60 - 130	30	60 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	87.6	89.7	2.38	79.9	80.1	0.182	60 - 130	30	60 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	85.2	87	2.09	77.6	78.1	0.693	60 - 130	30	60 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	90.8	93.9	3.30	83.4	83.5	0.0554	60 - 130	30	60 - 130	30
Toluene	ND	0.050	119	120	0.884	107	111	3.56	60 - 130	30	60 - 130	30
Trichloroethene	ND	0.050	125	125	0	116	117	0.848	60 - 130	30	60 - 130	30
%SS1:	94	0.12	89	89	0	91	89	2.19	70 - 130	30	70 - 130	30
%SS2:	108	0.12	110	111	1.27	109	111	1.29	70 - 130	30	70 - 130	30
%SS3:	98	0.012	104	109	5.35	103	101	1.97	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 45123 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-014A	08/14/09 7:16 AM	08/14/09	08/19/09 3:23 AM	0908386-016A	08/14/09 7:29 AM	08/14/09	08/19/09 12:29 AM
0908386-021A	08/14/09 9:45 AM	08/14/09	08/19/09 1:57 AM	0908386-022A	08/14/09 9:52 AM	08/14/09	08/19/09 1:12 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 45162

WorkOrder 0908386

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 0908328-001A			
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	91.8	93.4	1.66	90.2	92.3	2.24	60 - 130	30	60 - 130	30
Benzene	ND	0.050	112	110	1.54	113	114	1.16	60 - 130	30	60 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	104	105	1.36	104	102	1.52	60 - 130	30	60 - 130	30
Chlorobenzene	ND	0.050	102	101	0.935	105	103	1.17	60 - 130	30	60 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	89.3	89.7	0.422	90.4	90.1	0.335	60 - 130	30	60 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	121	120	0.830	118	121	1.85	60 - 130	30	60 - 130	30
1,1-Dichloroethene	ND	0.050	114	114	0	116	114	1.78	60 - 130	30	60 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	124	125	0.302	121	123	2.18	60 - 130	30	60 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	115	115	0	112	112	0	60 - 130	30	60 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	111	112	0.749	111	112	1.58	60 - 130	30	60 - 130	30
Toluene	ND	0.050	110	109	1.25	112	113	0.771	60 - 130	30	60 - 130	30
Trichloroethene	ND	0.050	104	104	0	103	104	0.913	60 - 130	30	60 - 130	30
%SS1:	92	0.12	74	76	2.52	75	75	0	70 - 130	30	70 - 130	30
%SS2:	109	0.12	105	105	0	107	107	0	70 - 130	30	70 - 130	30
%SS3:	113	0.012	123	124	0.100	123	121	1.99	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 45162 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-001A	08/13/09 10:11 AM	08/14/09	08/19/09 10:20 AM	0908386-002A	08/13/09 10:20 AM	08/14/09	08/19/09 9:37 AM
0908386-004A	08/13/09 11:10 AM	08/14/09	08/19/09 11:44 AM	0908386-005A	08/13/09 11:33 AM	08/14/09	08/19/09 8:12 AM
0908386-007A	08/13/09 1:45 PM	08/14/09	08/19/09 2:40 AM	0908386-008A	08/13/09 1:55 PM	08/14/09	08/19/09 11:02 AM
0908386-010A	08/13/09 12:40 PM	08/14/09	08/18/09 11:47 PM	0908386-011A	08/13/09 12:53 PM	08/14/09	08/19/09 8:55 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 45200

WorkOrder 0908386

EPA Method SW8260B	Extraction SW5030B								Spiked Sample ID: 0908369-005B			
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	88.3	88.7	0.496	85.4	91	6.29	70 - 130	30	70 - 130	30
Benzene	ND	10	98.7	100	1.38	94	99.3	5.43	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	86.9	84.7	2.52	94.5	96.7	2.33	70 - 130	30	70 - 130	30
Chlorobenzene	ND	10	108	105	2.46	92.5	97.8	5.50	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	116	115	1.12	99.7	98.6	1.17	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	95.4	95.7	0.233	95.2	98.3	3.19	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	110	110	0	92	105	13.3	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	89.5	91.3	1.91	99.3	105	5.64	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	92.1	92.1	0	97.8	102	4.37	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	101	100	0.546	102	105	2.95	70 - 130	30	70 - 130	30
Toluene	ND	10	108	109	0.315	88.7	92.3	3.99	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	122	122	0	102	109	6.71	70 - 130	30	70 - 130	30
%SS1:	91	25	91	92	0.550	76	76	0	70 - 130	30	70 - 130	30
%SS2:	100	25	103	104	0.435	95	94	0.629	70 - 130	30	70 - 130	30
%SS3:	99	2.5	104	106	1.87	101	105	4.19	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 45200 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-003B	08/13/09 10:40 AM	08/18/09	08/18/09 3:08 PM	0908386-006B	08/13/09 12:02 PM	08/18/09	08/18/09 3:52 PM
0908386-009B	08/13/09 2:20 PM	08/18/09	08/18/09 4:35 PM	0908386-012B	08/13/09 1:15 PM	08/18/09	08/18/09 5:18 PM
0908386-017B	08/14/09 8:00 AM	08/18/09	08/18/09 6:01 PM	0908386-023B	08/14/09 10:18 AM	08/18/09	08/18/09 6:45 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



### QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0908386

EPA Method 6020A		Extraction SW3050B				BatchID: 45168			Spiked Sample ID: 0908341-004A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Antimony	ND	50	105	108	2.86	10	101	101	0	75 - 125	20	75 - 125	20
Arsenic	7.7	50	106	103	2.80	10	96.9	96.9	0	75 - 125	20	75 - 125	20
Barium	160	500	97.8	101	2.66	100	89.8	90.2	0.389	75 - 125	20	75 - 125	20
Beryllium	ND	50	100	105	4.23	10	103	104	0.483	75 - 125	20	75 - 125	20
Cadmium	ND	50	101	104	2.61	10	101	101	0	75 - 125	20	75 - 125	20
Chromium	29	50	104	101	1.77	10	104	105	0.382	75 - 125	20	75 - 125	20
Cobalt	8.6	50	100	105	3.81	10	101	102	1.28	75 - 125	20	75 - 125	20
Copper	17	50	112	107	3.58	10	104	104	0	75 - 125	20	75 - 125	20
Lead	7.6	50	100	104	3.16	10	99.4	99.3	0.121	75 - 125	20	75 - 125	20
Mercury	ND	1.25	85.5	88.8	3.67	0.25	101	100	0.793	75 - 125	20	75 - 125	20
Molybdenum	ND	50	101	105	3.96	10	95.6	96.2	0.605	75 - 125	20	75 - 125	20
Nickel	25	50	112	108	3.05	10	104	103	1.36	75 - 125	20	75 - 125	20
Selenium	ND	50	104	117	11.9	10	103	104	1.16	75 - 125	20	75 - 125	20
Silver	ND	50	101	104	3.03	10	102	104	1.46	75 - 125	20	75 - 125	20
Thallium	ND	50	97.3	101	3.67	10	97.2	96.7	0.547	75 - 125	20	75 - 125	20
Vanadium	49	50	107	104	1.57	10	104	104	0	75 - 125	20	75 - 125	20
Zinc	48	500	104	100	3.28	100	101	101	0	75 - 125	20	75 - 125	20
%SS:	113	250	104	106	2.55	250	100	100	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 45168 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-001A	08/13/09 10:11 AM	08/14/09	08/18/09 4:33 PM	0908386-002A	08/13/09 10:20 AM	08/14/09	08/18/09 4:42 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



### QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0908386

EPA Method 6020A		Extraction SW3050B				BatchID: 45211			Spiked Sample ID: 0908386-022A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Antimony	ND	50	103	106	2.85	10	100	101	0.398	75 - 125	20	75 - 125	20
Arsenic	4.9	50	100	100	0	10	95.4	97.1	1.74	75 - 125	20	75 - 125	20
Barium	220	500	82.9	87.1	3.23	100	86.8	86	0.822	75 - 125	20	75 - 125	20
Beryllium	0.86	50	105	107	1.85	10	104	101	2.34	75 - 125	20	75 - 125	20
Cadmium	ND	50	102	105	2.59	10	95.6	97.1	1.58	75 - 125	20	75 - 125	20
Chromium	72	50	NR	NR	NR	10	88.8	90.9	2.40	75 - 125	20	75 - 125	20
Cobalt	11	50	85.9	86.8	0.811	10	100	99.2	1.04	75 - 125	20	75 - 125	20
Copper	30	50	86.6	89.1	1.68	10	101	101	0	75 - 125	20	75 - 125	20
Lead	9.1	50	95.9	96.8	0.803	10	98.6	98.5	0.132	75 - 125	20	75 - 125	20
Mercury	ND	1.25	104	105	0.524	0.25	99.4	99.1	0.363	75 - 125	20	75 - 125	20
Molybdenum	ND	50	99	102	2.95	10	95.8	95.5	0.324	75 - 125	20	75 - 125	20
Nickel	67	50	NR	NR	NR	10	93.7	95	1.33	75 - 125	20	75 - 125	20
Selenium	ND	50	101	103	1.68	10	98.5	99.8	1.35	75 - 125	20	75 - 125	20
Silver	ND	50	115	118	2.86	10	98.6	99.2	0.607	75 - 125	20	75 - 125	20
Thallium	ND	50	97.7	98.9	1.16	10	94.5	94.4	0.0635	75 - 125	20	75 - 125	20
Vanadium	61	50	NR	NR	NR	10	94.2	94.8	0.582	75 - 125	20	75 - 125	20
Zinc	65	500	98.6	99.9	1.23	100	95.5	96.7	1.28	75 - 125	20	75 - 125	20
%SS:	131	250	102	104	1.75	250	98	99	0.163	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 45211 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-004A	08/13/09 11:10 AM	08/14/09	08/18/09 4:50 PM	0908386-005A	08/13/09 11:33 AM	08/14/09	08/18/09 5:24 PM
0908386-007A	08/13/09 1:45 PM	08/14/09	08/18/09 5:33 PM	0908386-008A	08/13/09 1:55 PM	08/14/09	08/18/09 5:41 PM
0908386-010A	08/13/09 12:40 PM	08/14/09	08/17/09 11:02 PM	0908386-011A	08/13/09 12:53 PM	08/14/09	08/18/09 5:49 PM
0908386-014A	08/14/09 7:16 AM	08/14/09	08/20/09 7:14 PM	0908386-016A	08/14/09 7:29 AM	08/14/09	08/21/09 3:33 PM
0908386-021A	08/14/09 9:45 AM	08/14/09	08/18/09 1:46 AM	0908386-022A	08/14/09 9:52 AM	08/14/09	08/18/09 2:03 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 45207

WorkOrder: 0908386

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 0908386-022A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>£</sup>	ND	0.60	107	115	7.13	117	122	3.92	70 - 130	20	70 - 130	20
MTBE	ND	0.10	91.2	108	16.5	93.9	95.3	1.45	70 - 130	20	70 - 130	20
Benzene	ND	0.10	92.3	101	9.49	99.5	97.8	1.72	70 - 130	20	70 - 130	20
Toluene	ND	0.10	90.4	99.1	9.09	97.4	94.6	2.89	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	89.2	97.6	8.94	95.7	93.8	1.97	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	90.8	98.6	8.28	97.4	95.3	2.17	70 - 130	20	70 - 130	20
%SS:	89	0.10	87	93	6.44	89	85	5.48	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 45207 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-001A	08/13/09 10:11 AM	08/14/09	08/18/09 3:33 PM	0908386-002A	08/13/09 10:20 AM	08/14/09	08/19/09 12:36 AM
0908386-004A	08/13/09 11:10 AM	08/14/09	08/18/09 11:37 PM	0908386-005A	08/13/09 11:33 AM	08/14/09	08/19/09 7:30 AM
0908386-007A	08/13/09 1:45 PM	08/14/09	08/18/09 11:34 PM	0908386-008A	08/13/09 1:55 PM	08/14/09	08/18/09 7:16 PM
0908386-010A	08/13/09 12:40 PM	08/14/09	08/18/09 6:59 AM	0908386-011A	08/13/09 12:53 PM	08/14/09	08/18/09 7:29 AM
0908386-014A	08/14/09 7:16 AM	08/14/09	08/19/09 4:04 AM	0908386-016A	08/14/09 7:29 AM	08/14/09	08/18/09 5:05 PM
0908386-021A	08/14/09 9:45 AM	08/14/09	08/18/09 4:04 PM	0908386-022A	08/14/09 9:52 AM	08/14/09	08/18/09 4:34 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 45199

WorkOrder: 0908386

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 0908370-001A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>£</sup>	ND	60	99.8	99.6	0.154	100	111	10.6	70 - 130	20	70 - 130	20
MTBE	ND	10	111	109	1.91	117	115	2.33	70 - 130	20	70 - 130	20
Benzene	ND	10	106	106	0	107	106	0.959	70 - 130	20	70 - 130	20
Toluene	ND	10	95	95.8	0.897	96.7	95.2	1.52	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	95.6	96.4	0.796	97.5	96.3	1.23	70 - 130	20	70 - 130	20
Xylenes	ND	30	109	109	0	111	110	0.993	70 - 130	20	70 - 130	20
%SS:	101	10	98	99	1.07	97	97	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 45199 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-003A	08/13/09 10:40 AM	08/18/09	08/18/09 10:25 PM	0908386-006A	08/13/09 12:02 PM	08/18/09	08/18/09 10:59 PM
0908386-009A	08/13/09 2:20 PM	08/19/09	08/19/09 12:39 AM	0908386-012A	08/13/09 1:15 PM	08/19/09	08/19/09 1:11 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 45213

WorkOrder: 0908386

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 0908386-017A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) <sup>£</sup>	ND	60	121	129	5.81	120	120	0	70 - 130	20	70 - 130	20
MTBE	ND	10	119	120	0.452	112	108	3.58	70 - 130	20	70 - 130	20
Benzene	ND	10	108	107	1.33	104	108	3.27	70 - 130	20	70 - 130	20
Toluene	ND	10	97.2	104	6.58	93.3	96.8	3.70	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	98.8	100	1.35	94.6	98.1	3.61	70 - 130	20	70 - 130	20
Xylenes	ND	30	113	111	1.57	108	112	3.58	70 - 130	20	70 - 130	20
%SS:	102	10	98	102	4.11	97	97	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 45213 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-017A	08/14/09 8:00 AM	08/19/09	08/19/09 1:44 AM	0908386-023A	08/14/09 10:18 AM	08/19/09	08/19/09 4:58 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.





### QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0908386

EPA Method 6020A		Extraction SW3050B				BatchID: 45211			Spiked Sample ID: 0908386-022A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	9.1	50	95.9	96.8	0.803	10	98.6	98.5	0.132	75 - 125	20	75 - 125	20
%SS:	131	250	102	104	1.75	250	98	99	0.163	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 45211 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-018A	08/14/09 8:30 AM	08/14/09	08/19/09 5:25 PM	0908386-019A	08/14/09 8:41 AM	08/14/09	08/21/09 3:41 PM
0908386-020A	08/14/09 8:38 AM	08/14/09	08/18/09 12:20 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ; RPD =  $100 * (MS - MSD) / ((MS + MSD) / 2)$ .

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 45131

WorkOrder: 0908386

EPA Method SW8015B		Extraction SW3550C/3630C							Spiked Sample ID: 0908293-010A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	20	90.4	87.6	3.22	87.4	89.1	1.93	70 - 130	30	70 - 130	30
%SS:	96	50	99	97	2.08	96	98	2.22	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 45131 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-001A	08/13/09 10:11 AM	08/14/09	08/19/09 8:09 AM	0908386-002A	08/13/09 10:20 AM	08/14/09	08/19/09 12:50 AM
0908386-004A	08/13/09 11:10 AM	08/14/09	08/19/09 4:59 PM	0908386-005A	08/13/09 11:33 AM	08/14/09	08/19/09 1:59 AM
0908386-007A	08/13/09 1:45 PM	08/14/09	08/20/09 11:36 AM	0908386-008A	08/13/09 1:55 PM	08/14/09	08/20/09 5:34 PM
0908386-010A	08/13/09 12:40 PM	08/14/09	08/19/09 8:24 PM	0908386-011A	08/13/09 12:53 PM	08/14/09	08/19/09 3:07 AM
0908386-014A	08/14/09 7:16 AM	08/14/09	08/19/09 3:51 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



**QC SUMMARY REPORT FOR SW8015B**

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 45166

WorkOrder: 0908386

EPA Method SW8015B		Extraction SW3550C/3630C							Spiked Sample ID: 0908373-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	20	93.1	94.2	1.17	88.4	96.7	8.98	70 - 130	30	70 - 130	30
%SS:	98	50	100	100	0	79	96	19.4	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 45166 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-016A	08/14/09 7:29 AM	08/14/09	08/19/09 5:24 AM	0908386-021A	08/14/09 9:45 AM	08/14/09	08/19/09 9:18 AM
0908386-022A	08/14/09 9:52 AM	08/14/09	08/19/09 2:42 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 45157

WorkOrder: 0908386

EPA Method SW8015B		Extraction SW3510C/3630C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	95.2	91.3	4.20	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	104	101	3.39	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 45157 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-003A	08/13/09 10:40 AM	08/14/09	08/21/09 11:58 AM	0908386-006A	08/13/09 12:02 PM	08/14/09	08/20/09 6:44 PM
0908386-009A	08/13/09 2:20 PM	08/14/09	08/19/09 7:41 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 45212

WorkOrder: 0908386

Analyte	Extraction SW3510C/3630C			Spiked Sample ID: N/A								
	Sample µg/L	Spiked µg/L	MS % Rec.	MSD % Rec.	MS-MSD % RPD	LCS % Rec.	LCSD % Rec.	LCS-LCSD % RPD	Acceptance Criteria (%)			
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	96.5	95.6	0.892	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	103	104	0.154	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

#### BATCH 45212 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908386-012A	08/13/09 1:15 PM	08/14/09	08/19/09 6:32 AM	0908386-017A	08/14/09 8:00 AM	08/14/09	08/20/09 2:06 AM
0908386-023A	08/14/09 10:18 AM	08/14/09	08/20/09 2:54 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



**ASBESTOS TEM LABORATORIES, INC.**

**CAL ARB Method 435  
Polarized Light Microscopy  
Analytical Report**

**Laboratory Job # 299-00682**

630 Bancroft Way  
Berkeley, CA 94710  
(510) 704-8930  
FAX (510) 704-8429

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ASBESTOS TEM LABORATORIES, INC

Accredited by  
U.S. Dept. of Commerce



NVLAP LAB CODE 101891-0

CA DOHS ELAP

Aug/25/2009

Ana Venegas  
McCampbell Analytical  
1534 Willow Pass Road  
Pittsburg, CA 94565

RE: LABORATORY JOB # 299-00682  
Polarized light microscopy analytical results for bulk sample(s).  
Job Site: #105205\_Armory  
Job No.:

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 microscope 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 technique 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. ---


630 BANCROFT WAY • BERKELEY, CA 94710 • CARB 435 ANALYTICAL REPORT 704-8429

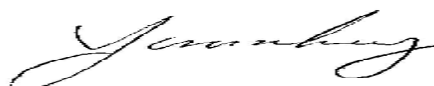
With Branch Offices Located At: 1016 GREG STREET, SPARKS, NV 89431

# POLARIZED LIGHT MICROSCOPY CARB 435 ANALYTICAL REPORT

Contact: Ana Venegas	Samples Submitted: 2	Report No. <b>078845</b>
Address: McCampbell Analytical 1534 Willow Pass Road Pittsburg, CA 94565	Samples Analyzed: 0	Date Submitted: Aug-17-09
	Job Site / No. #105205_Armory	Date Reported:

SAMPLE ID	POINTS COUNTED	ASBESTOS %	TYPE	LOCATION / DESCRIPTION
<b>B-2-1/2</b>		<b>&lt;0.25%</b>	<b>Chrysotile</b>	Soil
Lab ID # 299-00682-001	<b>400</b> - Total Points			Asbestos observed in the non-counted portions of the sample.
<b>B-2-9</b>			<b>None Detected</b>	Soil
Lab ID # 299-00682-002	- Total Points			No point count performed - ARB Exception I.
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			

QC Reviewer 

Analyst 



McCampbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
Phone: (925) 252-9262  
Fax: (925) 252-9269

WorkOrder 0908386 ClientCode: KFP EDF: NO

Subcontractor:

Abestos TEM Laboratories  
630 Bancroft Way  
Berkeley, CA 94710

TEL: (510) 704-8930  
FAX: (510) 704-8429  
ProjectNo: #105356, Armory  
Acct #: N/A

Please change to #105205; Armory

Date Received: 08/14/2009

Date Printed: 08/14/2009


Lab ID	Client ID	Matrix	Collection Date	TAT	Requested Tests						
					Asbestos						
0908386-013A	B-2-1/2	Soil	8/14/2009 7:08	Standard	1						
0908386-015A	B-2-9	Soil	8/14/2009 7:25	Standard	1						

\* please analyze for asbestos PLM on a STD TAT

Comments:

PLEASE USE 'CLIENTID' AS THE SAMPLE ID AND EMAIL ASAP!

Please email results to Ana Venegas at subdata@mccampbell.com upon completion.

Relinquished by: 	Date/Time: 8/17/09	Received by: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____