APPENDIX L
HAZARDOUS MATERIALS

This appendix contains supporting documentation for the assessment of Hazardous Materials for the Environmental Impact Statement and Environmental Impact Report.
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EDR Radius Map Report
5.0 Environmental Consequences

The potential environmental impacts resulting from the construction of Alternative A (No Action), and Alternatives B and D are presented in this chapter. Alternative C is no longer being considered. These three alternatives are summarized below and discussed in detail in Chapter 3.0 of this DEIS:

- **Alternative A - No-Action** - The No-Action Alternative assumes the Proposed Project would not be implemented at the Gnoss Field Airport site, and the Gnoss Field Airport would continue to operate with its current runway configuration and length. No improvements would be made at the airport. This alternative is depicted on Exhibit 3-1.

- **Alternative B – Sponsor’s Proposed Project** – Extend Runway to Northwest by 1,100 Feet - This alternative is the sponsor’s (FAA and County of Marin) Proposed Project, which is the focus of this DEIS and is depicted on Exhibit 3-2. This alternative consists of the extension of Runway 13/31 by 1,100 feet to the northwest, and the construction of 240-foot Safety Areas to the northwest and southeast. All proposed construction areas are part of the existing airport property.

- **Alternative D – Extend Runway to Southeast by 240 Feet and Northwest by 860 Feet** - This alternative consists of the extension of Runway 13/31 by 240 feet to the southeast and 860 Feet to the northwest, and the construction of 240 foot Safety Areas to the southeast and northwest. The proposed construction would require the acquisition of 5.5 acres of land not currently part of the airport property to the southeast. This alternative is depicted on Exhibit 3-4.

Direct and indirect impacts associated with the three alternatives are identified and discussed in the following sections. Table 5-1 provides a summary of the environmental impacts associated with the implementation of the alternatives. These summary findings are discussed in further detail below.

In accordance with FAA Order 5050.4B, Paragraph 706e, this chapter describes only those environmental impact categories that could be potentially impacted by the Proposed Project and its reasonable alternatives. Therefore, they are not included in Table 5-1, or discussed further within this DEIS.

According to the USDA Web Soil Survey and the site inspection, there are no prime farmland map units in the proposed project areas (USDA, [www.websoilsurvey.nrcs.usda.gov/app](http://www.websoilsurvey.nrcs.usda.gov/app)). According to the federal Wild and Scenic Rivers website at [www.rivers.gov](http://www.rivers.gov), there are no listed Wild and Scenic Rivers within 50 miles of the proposed project area.
## TABLE 5-1
SUMMARY OF ENVIRONMENTAL IMPACTS

<table>
<thead>
<tr>
<th>Potential Impact Categories (from FAA Order 1050.1E)</th>
<th>A - No Action</th>
<th>B - Sponsor's Proposed Alternative</th>
<th>D - Extend to Southeast and Northwest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Quality</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coastal Resources</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Compatible Land Use</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Impacts</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department of Transportation Act: Section 4(f)</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish, Wildlife, and Plants</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Floodplains</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous Materials, Pollution Prevention, Solid Waste</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Historic, Architectural, Archaeological, and Cultural Resources</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Light Emissions and Visual Impacts</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Resources and Energy Supply</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noise</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary (induced) Impacts</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Socioeconomic, Environmental Justice, Children’s Environmental Health and Safety Risks</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Quality</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wetlands</td>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: Yes - Potential impacts. No - No impacts
Within this chapter of the DEIS, each subsection begins with a brief overview of impacts (printed in bold), followed by a description of the regulatory context and methodology used to determine impacts, and a quantification of the potential impacts. Mitigation measures are presented in Chapter 6.0, Mitigation, of this DEIS.

5.2 Coastal Resources

This section assesses the potential impacts relative to Coastal Resources that would occur as a result of implementing the Sponsor’s Proposed Project or its alternatives. This section provides our evaluation of the federal Coastal Zone Management Act (CZMA) for the San Francisco Bay segment of the California coastal zone regarding the jurisdictional extent of the CZMA for the proposed project alternatives.

5.2.1 Overview of Impacts

Implementation of Alternatives A (no action), B (extend runway to northwest), and D (extend runway to southeast and northwest) would not result in impacts to the Coastal Zone Management Act because Alternatives A, B, and D do not extend into areas within CMZA jurisdiction.

5.2.2 Regulatory Framework

The San Francisco Bay Conservation and Development Commission (BCDC) is charged with administering the federal Coastal Zone Management Act (CZMA) of 1972 (16 U.S.C 1451 through 1465) for the San Francisco Bay segment of the California coastal zone. The Act, administered by NOAA’s Office of Ocean and Coastal Resource Management (OCRM), provides for management of the nation’s coastal resources and balances economic development with environmental conservation. If a proposed project results in construction proposed within the CZMA, then the sponsor must apply for a permit and comply with the permit requirements.

5.2.3 Methodology

Kleinfelder staff reviewed available references and conducted a site visit to the project location on May 21, 2009, to evaluate for any conditions that may influence the extent of jurisdiction under the CZMA. Our preliminary observations and evaluation of the site was presented to the BCDC for the purpose of confirming the extent of jurisdiction under the CZMA in the vicinity of the project site.

On May 21, 2009, information was submitted by email to Bob Batha of BCDC for review and determination of jurisdiction. The information consisted of maps showing the potential extent of the project footprint under the various alternatives and identification of key features of the project site.

5.2.4 Potential Impacts and Mitigations
The potential environmental consequences or impacts to the two areas located at either end of the airport runway were considered relative to the three proposed alternatives and were reviewed for Coastal Resources concerns relative to Existing Conditions (prior to runway extension) and Future Conditions (during and post-construction).

5.2.4.1 Existing Conditions

Kleinfelder staff visited the site on May 21, 2009, to meet with the airport manager, Mr. Ken Robbins, at the airport office. During this meeting and site visit, it was concluded that most of the seasonal marsh area surrounding the airport runway is not connected directly to the Petaluma River (to the east) or Black John Slough (to the south), which connects directly to the Petaluma River. The entire area is bordered by a levee and water that enters into the marsh slowly drains to the northeast corner of the parcel, where it is pumped out of the system into the Petaluma River. There is a tide gate in the southeast corner of the marsh, but it has not been opened for many years and appears to be inoperable.

On the south end of the existing runway, there is seasonal marsh area, but it is not directly connected to the Petaluma River nor the surrounding marshlands outside the levee surrounding the airport. The water flow into the site is channeled into a drainage ditch that flows around the perimeter of the runway and then the water is pumped out into Black John Slough.

Black John Slough is a tidally-influenced channel with direct unblocked connection to the Petaluma River and thence to the San Francisco Bay. Because of the tidal nature of this channel, Black John Slough is within the CZMA jurisdiction of BCDC and construction activities within this zone would need to comply with BCD permit requirements. The jurisdiction extends 100 feet inland of the MHW tide line, so there is a 100-foot wide margin along Black John Slough that falls within the BCDC’s jurisdiction.

5.2.4.2 Future Conditions

Alternatives A (no action), B (extend runway to northwest), and D (extend runway to southeast and northwest) do not extend into areas within CMZA jurisdiction. Accordingly, there is no impact to the CMZA from Alternatives A, B, and D, so long as the proposed construction activities do not extend southward to inside the 100 foot buffer zone north of Black John Slough.
5.9 Hazardous Materials, Pollution Prevention, and Solid Waste

This section assesses the potential exposure to or generation of hazardous materials, pollution prevention measures, and solid waste that would occur as a result of implementing the Sponsor’s Proposed Project or its alternatives. Appendix L, EDR Radius Reports, includes supplemental information regarding the analysis of hazardous materials.

5.9.1 Overview of Impacts

Implementation of the No-Action Alternative would not result in hazardous materials impacts because no construction activities would occur and no improvements would be made to the existing airport.

The two variations of runway extension alternatives (Alternatives B and D) would result in short-term, temporary hazardous materials or solid waste impacts from fuels, lubricants and oils, asphalt, paints, solvents, and construction debris commonly associated with construction. The short-term, temporary construction impacts would be reduced to less-than-significant levels with the implementation of the mitigations discussed in this section. The contractor would be responsible for managing, recycling, or disposing of all hazardous and non-hazardous materials and waste associated with the construction project. Redwood Landfill, a Class III landfill, is located within one mile of the proposed construction areas and is licensed to accept the above-described construction debris. This construction debris is capable of being transported to and disposed of at the Redwood Landfill without resulting in impacts to the capacity of the landfill.

The lands within the areas where the runway extension alternatives would be constructed are undeveloped, previously-disturbed vacant lands that do not have a past history of hazardous or non-hazardous (i.e. solid waste) materials or waste storage or use, and do not contain evidence of hazardous or non-hazardous materials dumping or disposal.

None of the lands associated with the runway extension alternatives are located within areas that are known or suspected to contain sites or facilities known to contain environmental contamination.

5.9.2 Regulatory Framework

The primary laws governing the handling and disposal of hazardous materials, chemicals, substances, and wastes of most importance to the FAA in proposing actions to construct and operate facilities and navigational aids are (1) the Resource Conservation and Recovery Act of 1976 (RCRA), as amended by the Federal Facilities Compliance Act of 1992, and (2) the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA or Superfund) and the
Community Environmental Response Facilitation Act of 1992. RCRA governs the generation, treatment, storage, and disposal of hazardous and solid wastes. CERCLA provides for consultation with natural resources trustees and cleanup of any release of a hazardous substance, excluding petroleum, into the environment.

The RCRA is intended to provide "cradle to grave" management of hazardous and solid wastes and regulation of underground storage tanks (USTs) containing chemical and petroleum products. The RCRA allows the USEPA to set standards for entities producing, storing, handling, transporting, and disposing of hazardous waste. The RCRA was amended with the Hazardous and Solid Waste Amendments of 1984 (HSWA) that addressed corrective actions and permitting of hazardous waste issues. FAA Order 1050.1E states that the RCRA, as amended by the Federal Facilities Compliance Act of 1992, governs the generation, treatment, storage, and disposal of hazardous wastes.

The RCRA, which amended the Solid Waste Disposal Act, addresses non hazardous (Subtitle D) and hazardous (Subtitle C) waste management activities. RCRA established an Interagency Coordinating Committee on Federal Resource Conservation and Recovery Activities, which has the responsibility for coordinating all activities dealing with resource conservation and recovery from solid waste carried out by all other Federal agencies that conduct such activities pursuant to this chapter or any other act. The term "resource conservation and recovery activities" includes, but is not limited to, all research development and demonstration projects on resource conservation or energy; material recovery from solid waste; and all technical or financial assistance for State or local planning for, or implementation of, projects related to resource conservation, energy, or material recovery from solid waste.

The CERCLA of 1980 provides the authority with which the Federal government can compel people or companies responsible for creating hazardous waste sites to clean them up. Nicknamed "Superfund," it created a public trust fund to assist with the cleanup of inactive and abandoned hazardous waste sites and accidentally spilled or illegally dumped hazardous materials. The CERCLA, as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA or Superfund) and the Community Environmental Response Facilitation Act of 1992 provide for consultation with Natural Resources Trustees and cleanup of any release of hazardous substances (excluding petroleum) into the environment.

A waste is considered hazardous if it is listed in or meets the characteristics described in 40 CFR Part 261, including corrosivity, reactivity, ignitibility, or toxicity. Wastes excluded from regulation as hazardous waste include household wastes, animal wastes, fly ash, slag, and wastes from ore processing.

In accordance with 42 U.S.C. § 6901, a solid waste is considered to be any garbage, sludge from a wastewater treatment plant, water supply treatment plant, or air pollution control facility and other discarded material, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, commercial, mining, and
agricultural operations, and from community activities. Solid waste does not include solid or dissolved material in domestic sewage or irrigation return flows, or industrial discharges that are point sources subject to permits under 33 U.S.C. § 1342, or source, special nuclear, or by-product material as defined by the Atomic Energy Act of 1954, as amended.

The Pollution Prevention Act of 1990 (PPA) established the national policy that pollution should be prevented or reduced at the source whenever feasible. The PPA was established to reduce or eliminate waste at the source by modifying production processes, promoting the use of non-toxic or less-toxic substances, implementing conservation techniques, and re-using materials rather than putting them into waste streams.

In addition, Executive Orders (E.O.) that may be relevant to the proposed project include E.O.s 12088 (Federal Compliance with Pollution Control Standards), 13101 (Greening the Government through Waste Prevention, Recycling, and Federal Acquisition), and 13148 (Greening the Government through Leadership in Environmental Management) and were created to support methods to prevent and control pollution in the environment. Additionally, the Federal Aviation Administration (FAA) must comply with applicable pollution control statutes and requirements that may include, but are not limited to those listed in Appendix 2 of FAA Order 1050.10B (Prevention, Control, and Abatement of Environmental Pollution at FAA Facilities), FAA Order 1050.14A (Polychlorinated Biphenyls in the National Airspace System), FAA Order 1050.15A (Underground Storage Tanks at FAA Facilities), and FAA Order 1050.18 (Chlorofluorocarbons and Halon Use at FAA Facilities).

Executive Order 12088, Federal Compliance with Pollution Control Standards, as amended, directs Federal agencies to comply with applicable pollution control standards in the prevention, control, and abatement of environmental pollution; and consult with the USEPA, State, interstate, and local agencies concerning the best techniques and methods available for the prevention, control, and abatement of environmental pollution.

Executive Order 12856, Federal Compliance with Right-to-Know Laws and Pollution Prevention, requires Federal agencies to report, in a public manner, toxic chemicals entering any waste-stream from their facilities, including any releases to the environment. This is required to ensure that generated waste is recycled to the maximum extent practicable, as well as to ensure that any remaining wastes are stored, treated, or disposed of in a manner protective of public health and the environment. This is further required in an effort to improve local emergency planning, response, and accident notification. Finally, the requirement is designed to encourage clean technologies and safe alternatives to extremely hazardous substances or toxic chemicals. This is to be accomplished through revisions to specifications and standards, the acquisition and procurement process, and the testing of innovative pollution prevention technologies at Federal facilities.
5.9.3 Methodology

A review of available information was conducted to evaluate if the proposed runway extension project at Gnoss Field Airport has or will generate any known hazardous material and/or solid waste concerns. This was accomplished by review of regulatory databases, historical aerial photographs and topographic maps, a city directory, and Sanborne maps, as available.

In addition, a field reconnaissance of the areas proposed for extension was conducted to visually observe the area for the presence or absence of hazardous materials, solid waste, dumping, or other evidence of hazardous materials and/or solid waste. No soil or water samples were obtained and no laboratory analyses were conducted as part of the field reconnaissance effort.

The alternatives were also evaluated to consider the nature and quantity of construction debris that may be generated during construction. The potential for temporary generation of solid wastes due to construction activities was based on the type of construction activities anticipated for each alternative.

5.9.4 Potential Impacts and Mitigations

The potential environmental consequences or impacts to the two areas located at either end of the airport runway were considered relative to the proposed alternatives and were reviewed for Hazardous Materials, Pollution Prevention, and Solid Waste concerns relative to Existing Conditions (prior to runway extension) and Future Conditions (during and post-construction).

5.9.4.1 Existing Conditions

As discussed below, the existing conditions do not present any known impacts to the proposed alternatives.

The potential runway extension areas north and south of the existing runway were inspected on May 18, 2009. Evidence of hazardous materials, solid waste, discolored soil or water, stressed vegetation, above or underground storage tanks, pits, ponds, or lagoons was not observed during the site reconnaissance. No hazardous waste or solid waste is generated in the areas because the areas are not currently in use other than flight pathways at the ends of the existing runway.

The proposed runway extension and safety zone areas for Runway 13/31 extend into areas of previously developed or otherwise human-altered land. Review of historical topographic maps and aerial photographs indicate the current north-south airport runway configuration has existed since at least 1968. Previously, the airport runway was oriented generally east-west from at least 1952 to 1965. The local area of the airport, including the areas proposed for runway extension, have been highly disturbed by land use practices including: historical Bay/Delta-lands reclamation, historical and
on-going agricultural activities including cattle grazing, levee construction, channelization, and construction of the airport facilities and the railroad grade. Currently, the area proposed for runway extension is vacant.

The review of various federal, state, and other databases identified twelve records involving past, present, and potential generation, transportation, storage, uses, or releases of hazardous materials at locations at and within ASTM search distances for each record type. Appendix L presents the EDR Radius Report and includes two maps showing the locations of the sites discussed below. None of the locations were within the areas proposed for the runway extension and safety areas. As discussed below, none of the locations are considered to be able to have an impact on or be impacted by the proposed project.

Six locations (A1 through A6) were identified at the 451 Airport Road address located within the south-central portion of the airport property but not at or adjacent to the proposed runway extension or safety areas. The records for Locations A1, A2, and A4 were all for underground storage tanks (USTs) containing diesel, aviation fuel, or jet fuel. Only Location A1 had records indicating a release consisting of a leaking diesel UST reported and confirmed in 1995 during the closure of the UST. The database report did not include closure or no further action records for Site A1. However, the site is not listed on the state’s GeoTracker website, indicating that the site is not active with the Regional Water Quality Control Board (RWQCB) or the Department of Toxic Substances Control (DTSC), the local regulatory agencies that would have regulatory jurisdiction. This suggests that the case was made inactive or closed in the past and is not considered to have an ongoing impact to soil or groundwater. Accordingly, the past and current presence of the USTs is not considered to be able to impact or be impacted by the proposed runway extension or safety areas.

The records for Location A3 reported the release of 40 gallons of aviation fuel from an aircraft that went off the runway and into a ditch adjacent to the runway on July 5, 2006. No further records were available and the status of the release is unknown. The airport manager, Ken Robbins, reported the release was probably more on the order of 5 to 10 gallons. Because of the relatively small volume of the release and the time that has passed since the release, the release is not considered to be able to impact or be impacted by the proposed runway extension or safety areas.

The records for Location A5 are for an active NPDES permit with the RWQCB for the industrial storm water permit for the airport operations. This routine operations permit and its reporting activity is for the control of storm water runoff and is not considered to be able to impact or be impacted by the proposed runway extension or safety areas.

The record for Location A6 indicates the airport facility produces approximately 0.33 tons per year of solid waste classified as household waste. This is a routine reporting activity and is not considered to be able to impact or be impacted by the proposed runway extension or safety areas.
The record for Location 7 was for a historical UST at 351 Airport Road in 1968. No records were provided indicating the status of this UST and there are no reports of any releases from this UST. Based on the location of Location 7 relative to the proposed runway extension and safety areas and the lack of any records indicating a release, the potential presence of a UST at Location 7 is not considered to be able to impact or be impacted by the proposed runway extension or safety areas.

The record for Location 8 was for the reported removal of 14 drums and fill from the intersection of Airport and Binford Roads, just west of the airport property in 1996. The records and a check of the state GeoTracker website indicate that the case was issued a no further action letter. Accordingly, the past presence of drums and fill at Location 8 is not considered to be able to impact or be impacted by the proposed runway extension or safety areas.

Locations B9 through B12 are located at 351 Airport Road. Each of the sites has one record of the presence of one or more active or removed USTs. There were no records of releases from any of these USTs. Accordingly, the past or current presence of USTs at Locations B9 through B12 are not considered to be able to impact or be impacted by the proposed runway extension or safety areas.

5.9.4.2 Future Conditions

Three of the proposed alternatives may have hazardous materials, pollution prevention, or solid waste impacts on future conditions. However, the potential impacts can be reduced to less-than-significant levels with the mitigations discussed below.

This section discusses the potential impacts from the Sponsor's Proposed Project and its alternatives to or from reasonable and foreseeable future conditions. Specifically, the following discusses the potential impacts during and from the proposed construction activities.

Alternative A - No Action
Because the No Action Alternative would not result in changes from the existing conditions, this alternative would have no reasonable and foreseeable future impacts relative to hazardous materials or solid waste. This assumes that future flights will continue to operate safely, i.e. certain planes will be required to fly with smaller fuel and cargo loads in order to safely use the current short runway.

Alternatives B and D - Extend Runway and Construct Safety Areas
Based on the site inspection and records search discussed above, the construction activities during the extension of the runways to either the north or south are not expected to encounter any hazardous materials or solid waste because the areas are not anticipated to be put into any uses other than the current flight pathways at the ends of the existing runway.
**Potential Impact** - The construction activities during the extension of the runway are expected to include the short-term, temporary use or generation of hazardous and non-hazardous materials and waste common to construction including petroleum hydrocarbon-based fuels, lubricants, and oils, paints, and cleaning solvents for the construction equipment. In addition, the asphalt and/or asphaltic concrete materials used to construct the runway extension will be required to be managed appropriately. Pollution prevention measures will be required to control and properly manage the hazardous and non-hazardous materials.

**Mitigation** - Appropriate materials management would be followed to minimize their use, manage waste disposal, and prevent pollution. The use, management, and disposal of hazardous and non-hazardous materials are described below in Table 5.9.1.
Table 5.9.1 Hazardous and Non-Hazardous Materials Usage and Waste Management During Construction

<table>
<thead>
<tr>
<th>Material</th>
<th>Use</th>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuels (diesel, gasoline)</td>
<td>Fuel for construction</td>
<td>Stored in above-ground tanks with secondary containment or within the equipment fuel tanks. Storage containers would be inspected periodically and spill cleanup materials would be available.</td>
</tr>
<tr>
<td></td>
<td>equipment</td>
<td></td>
</tr>
<tr>
<td>Hydraulic fluids, and lubricating oils and</td>
<td>Construction equipment</td>
<td>Stored in equipment or on impervious surface with spill cleanup materials available. Used oils would be collected for recycling.</td>
</tr>
<tr>
<td>greases</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asphalt or asphaltic concrete</td>
<td>Runway material</td>
<td>Unused material and edge trimmings would be recycled or disposed at a licensed landfill.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paints, primers, thinners, cleaning fluids,</td>
<td>Construction materials</td>
<td>Stored onsite in limited quantities at any one time in locked building or trailer separate from any fuel storage. Small amounts of spent solvents would be transported offsite for recycling or disposal at a licensed facility. Waste generated from these activities would be managed by the construction contractor in accordance with federal, state, and local regulations.</td>
</tr>
<tr>
<td>degreasers, adhesives, sealants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction debris</td>
<td>Runway trimmings,</td>
<td>Contractor would be responsible for removal of construction debris to licensed recycling or disposal facility.</td>
</tr>
<tr>
<td></td>
<td>lumber, cardboard, paper</td>
<td></td>
</tr>
<tr>
<td>Sewage</td>
<td>From portable toilets</td>
<td>Vendor would remove contents of portable toilets during construction for proper disposal at a licensed facility. Vendor would remove the portable toilets upon completion of construction activities.</td>
</tr>
<tr>
<td></td>
<td>during construction</td>
<td></td>
</tr>
</tbody>
</table>
Gnoss Airport
451 Airport Road
Novato, CA  94945

Inquiry Number: 2496047.2s
May 18, 2009

The EDR Radius Map™ Report with GeoCheck®
Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.
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

451 AIRPORT ROAD
NOVATO, CA 94945

COORDINATES

Latitude (North): 38.140900 - 38’ 8’ 27.2”
Longitude (West): 122.560000 - 122˚ 33’ 36.0”
Universal Tranverse Mercator: Zone 10
UTM X (Meters): 538557.9
UTM Y (Meters): 4221334.0
Elevation: 4 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38122-B5 PETALUMA RIVER, CA
Most Recent Revision: 1980

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2006, 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:

<table>
<thead>
<tr>
<th>Site</th>
<th>Database(s)</th>
<th>EPA ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARIN COUNTY AIRPORT GN OSS FIELD 451 AIRPORT RD NOVATO, CA 94948</td>
<td>LUST</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Status: Open - Site Assessment</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CA FID UST</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SWEEPS UST</td>
<td></td>
</tr>
<tr>
<td>VINDAR AVIATION 451 AIRPORT RD NOVATO, CA 94947</td>
<td>HIST UST</td>
<td>N/A</td>
</tr>
<tr>
<td>GN OSS FIELD 451 AIRPORT RD GN OSS FIELD 451 AIRPORT RD NOVATO, CA</td>
<td>CHMIRS</td>
<td>N/A</td>
</tr>
<tr>
<td>MARIN AIR SERVICES 351/451 AIRPORT RD NOVATO, CA 94947</td>
<td>UST</td>
<td>N/A</td>
</tr>
</tbody>
</table>
EXECUTIVE SUMMARY

MARIN CO AIRPORT
451 AIRPORT RD STE A
NOVATO, CA  94945

NPDES
CA WDS
HIST CORTESE

MARIN COUNTY AIRPORT (GNOSS FIELD
451 AIRPORT ROAD
NOVATO, CA  94945

HAZNET
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 CERCLIS NFRAP site List
CERC-NFRAP_______________ CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list
CORRACTS__________________ Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list
RCRA-TSDF_______________ RCRA - Transporters, Storage and Disposal

Federal RCRA generators list
RCRA-LQG_______________ RCRA - Large Quantity Generators
RCRA-SQG_______________ RCRA - Small Quantity Generators
RCRA-CESQG____________ RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries
US ENG CONTROLS_________ Engineering Controls Sites List
EXECUTIVE SUMMARY

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**
SLIC, Statewide SLIC Cases
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**
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
HIST Cal-Sites, Historical Calssites Database
SCH, School Property Evaluation Program
Toxic Pits, Toxic Pits Cleanup Act Sites
CDL, Clandestine Drug Labs

**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
LDIS .............................. Land Disposal Sites Listing
MCS ............................... Military Cleanup Sites Listing

Other Ascertainable Records
RCRA-NonGen ................. RCRA - Non Generators
DOT OPS ........................ Incidents and Accident Data
DOD ............................... Department of Defense Sites
FUDS .............................. Formerly Used Defense Sites
CONSNT .......................... Superfund (CERCLA) Consent Decrees
ROD ............................... Records Of Decision
UMTRA ............................ Uranium Mill Tailings Sites
MINS ............................... 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
FINDS ............................ Facility Index System/Facility Registry System
RAATS ............................. RCRA Administrative Action Tracking System
CA BOND EXP. PLAN ............ Bond Expenditure Plan
Cortese .......................... "Cortese" Hazardous Waste & Substances Sites List
Notify 65 ......................... Proposition 65 Records
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

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

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 02/23/2009 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOVATO STORAGE PARK</td>
<td>AIRPORT / BINFORD ROADS</td>
<td>WSW 1/8 - 1/4 (0.140 mi.)</td>
<td>8</td>
<td>14</td>
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</table>

Status: No Further Action

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 4 UST sites within approximately 0.25 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>AERO FUEL, INC</td>
<td>351 AIRPORT ROAD</td>
<td>W 1/8 - 1/4 (0.142 mi.)</td>
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<td>EMC AVIATION SERVICES/EMC PETR</td>
<td>351 AIRPORT ROAD</td>
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<td>AERO FUEL C/O INDUSTRIAL REALT</td>
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<td>19</td>
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</table>

State and tribal voluntary cleanup sites

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC’s costs.

A review of the VCP list, as provided by EDR, and dated 02/23/2009 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
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</thead>
<tbody>
<tr>
<td>NOVATO STORAGE PARK</td>
<td>AIRPORT / BINFORD ROADS</td>
<td>WSW 1/8 - 1/4 (0.140 mi.)</td>
<td>8</td>
<td>14</td>
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</tbody>
</table>
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 is 1 HIST UST site within approximately 0.25 miles of the target property.

<table>
<thead>
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<th>Equal/Higher Elevation</th>
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<th>Direction / Distance</th>
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<th>Page</th>
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<tr>
<td>ALLANA CORPORATION</td>
<td>MARIN COUNTY AIRPORT</td>
<td>SW 0 - 1/8 (0.052 mi.)</td>
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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 [CALSITES].

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOVATO STORAGE PARK</td>
<td>AIRPORT / BINFORD ROADS</td>
<td>WSW 1/8 - 1/4 (0.140 mi.)</td>
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<td>14</td>
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Due to poor or inadequate address information, the following sites were not mapped:

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<tr>
<th>Site Name</th>
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<td>US 101 EST BLYTHEDALE EXIT</td>
<td>CHMIRS, SLIC</td>
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<tr>
<td>LIVING HISTORY CENTER</td>
<td>UST</td>
</tr>
<tr>
<td>NOVATO SANITARY DISTRICT - RECLAMA</td>
<td>UST</td>
</tr>
<tr>
<td>SUPER IGNACIO SERVICE</td>
<td>UST</td>
</tr>
<tr>
<td>RUSH CREEK ESTATES</td>
<td>SLIC</td>
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<tr>
<td>NOVATO STORAGE PARK RANCHO DEL PAN</td>
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## MAP FINDINGS SUMMARY

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<th>Total Plotted</th>
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## MAP FINDINGS SUMMARY

<table>
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<tr>
<th>Database</th>
<th>Search Distance (Miles)</th>
<th>&lt; 1/8</th>
<th>1/8 - 1/4</th>
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### ADDITIONAL ENVIRONMENTAL RECORDS

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<th>Database</th>
<th>Search Distance (Miles)</th>
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<td><strong>Local Lists of Landfill / Solid Waste Disposal Sites</strong></td>
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**EDR PROPRIETARY RECORDS**

**EDR Proprietary Records**

Manufactured Gas Plants

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**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

TC2496047.2s Page 6
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**A1**  
**MARIN COUNTY AIRPORT GNOS Field**  
**451 AIRPORT RD**  
**NOVATO, CA 94948**  
**Site 1 of 6 in cluster A**  
**Actual:**  
- Region:  
- Global Id: T060400280  
- Latitude: 38.1313  
- Longitude: -122.5715  
- Case Type: LUST Cleanup Site  
- Status: Open - Site Assessment  
- Status Date: 1995-07-06 00:00:00  
- Lead Agency: SAN FRANCISCO BAY RWQCB (REGION 2)  
- Case Worker: Not reported  
- Local Agency: MARIN COUNTY  
- RB Case Number: 21-0298  
- LOC Case Number: 21-0298  
- File Location: Not reported  
- Potential Media Affect: Other Groundwater (uses other than drinking water)  
- Potential Contaminants of Concern: Diesel  
- Site History: Not reported  

**LUST:**  
- Region: 2  
- Facility Id: 21-0298  
- Facility Status: Leak being confirmed  
- Case Number: 21-0298  
- How Discovered: Tank Closure  
- Leak Cause: UNK  
- Leak Source: UNK  
- Date Leak Confirmed: 7/6/1995  
- Oversight Program: LUST  
- Prelim. Site Assessment Wokplan Submitted: Not reported  
- Preliminary Site Assessment 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  

**CA FID UST:**  
- Facility ID: 21001081  
- Regulated By: UTNKA  
- Regulated ID: 00035761  
- Cortese Code: Not reported  
- SIC Code: Not reported  
- Facility Phone: 4158977101  
- Mail To: Not reported  
- Mailing Address: P O BOX  
- Mailing Address 2: Not reported  
- Mailing City,St,Zip: NOVATO 94947  
- Contact: Not reported  
- Contact Phone: Not reported  
- DUNs Number: Not reported  
- NPDES Number: Not reported  
- EPA ID: Not reported  
- Comments: Not reported
### SWEEPS UST:

**Status:** A  
**Comp Number:** 35761  
**Number:** 9  
**Board Of Equalization:** 44-013874  
**Ref Date:** 01-09-90  
**Act Date:** 01-09-90  
**Created Date:** 12-31-88  
**Tank Status:** A  
**Owner Tank Id:** 3  
**Swrcb Tank Id:** 21-000-035761-000001  
**Actv Date:** 07-01-85  
**Capacity:** 10000  
**Tank Use:** M.V. FUEL  
**Stg:** P  
**Content:** JET FUEL  
**Number Of Tanks:** 3

**Status:** A  
**Comp Number:** 35761  
**Number:** 9  
**Board Of Equalization:** 44-013874  
**Ref Date:** 01-09-90  
**Act Date:** 01-09-90  
**Created Date:** 12-31-88  
**Tank Status:** A  
**Owner Tank Id:** 1  
**Swrcb Tank Id:** 21-000-035761-000002  
**Actv Date:** 07-01-85  
**Capacity:** 10000  
**Tank Use:** M.V. FUEL  
**Stg:** P  
**Content:** AVIA. GAS  
**Number Of Tanks:** 3

**Status:** A  
**Comp Number:** 35761  
**Number:** 9  
**Board Of Equalization:** 44-013874  
**Ref Date:** 01-09-90  
**Act Date:** 01-09-90  
**Created Date:** 12-31-88  
**Tank Status:** A  
**Owner Tank Id:** 2  
**Swrcb Tank Id:** 21-000-035761-000003  
**Actv Date:** 07-01-85  
**Capacity:** 10000  
**Tank Use:** M.V. FUEL  
**Stg:** P  
**Content:** AVIA. GAS  
**Number Of Tanks:** Not reported
### Site 2 of 6 in cluster A

**A2**  
**Target:** VINDAR AVIATION  
**Property:** 451 AIRPORT RD  
**NOVATO, CA 94947**

**HIST UST:** U001600321  
**EDR ID Number:** U/A

**Actual:**  
**4 ft.**

**HIST UST:**
- **Region:** STATE  
- **Facility ID:** 00000035761  
- **Facility Type:** Other  
- **Other Type:** AVIATION FUEL  
- **Total Tanks:** 0003  
- **Contact Name:** LEROY RUSCH  
- **Telephone:** 4158977101  
- **Owner Name:** C. C. KEMP INC.  
- **Owner Address:** 451 AIRPORT RD  
- **Owner City, St, Zip:** NOVATO, CA 94947

**Tank Num:** 001  
**Container Num:** 03  
**Year Installed:** 1969  
**Tank Capacity:** 00010000  
**Type of Fuel:** PRODUCT  
**Tank Construction:** Not reported  
**Leak Detection:** Visual, Stock Inventor

**Tank Num:** 002  
**Container Num:** 01  
**Year Installed:** 1968  
**Tank Capacity:** 00010000  
**Type of Fuel:** PRODUCT  
**Tank Construction:** Not reported  
**Leak Detection:** Visual

**Tank Num:** 003  
**Container Num:** 02  
**Year Installed:** 1968  
**Tank Capacity:** 00010000  
**Type of Fuel:** PRODUCT  
**Tank Construction:** Not reported  
**Leak Detection:** Visual

### Site 3 of 6 in cluster A

**A3**  
**Target:** GNOSS FIELD 451 AIRPORT RD  
**Property:** NOVATO, CA

**CHMIRS:** S109043087  
**EDR ID Number:** U/A

**Actual:**  
**4 ft.**

**CHMIRS:**
- **OES Incident Number:** 06-3966  
- **OES notification:** 7/5/2006 11:14:19 AM  
- **OES Date:** Not reported  
- **OES Time:** Not reported  
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- **Agency Id Number:** Not reported
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<td><strong>Site Type:</strong></td>
<td>Other</td>
</tr>
<tr>
<td><strong>E Date:</strong></td>
<td>Not reported</td>
</tr>
<tr>
<td><strong>Substance:</strong></td>
<td>Aviation fuel</td>
</tr>
<tr>
<td><strong>Quantity Released:</strong></td>
<td>Not reported</td>
</tr>
<tr>
<td><strong>BBLs:</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Cups:</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>CUFT:</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Gallons:</strong></td>
<td>40</td>
</tr>
<tr>
<td><strong>Grams:</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Pounds:</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Liters:</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Ounces:</strong></td>
<td>0</td>
</tr>
<tr>
<td>Site</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Site 4 of 6 in cluster A</td>
<td>A cessna 182 went off the runway into a ditch. Fuel has leaked from the plane and is impacting the Petaluma River.</td>
</tr>
<tr>
<td>Site 5 of 6 in cluster A</td>
<td></td>
</tr>
</tbody>
</table>

**A4**

**Target:** MARIN AIR SERVICES  
**Property:** 351/451 AIRPORT RD. NOVATO, CA 94947

**Property:** NOVATO, CA 94947

**UST:** U004130046

**Actual:** 4 ft.

**Facility Id:** Not reported

**Tank Number:** Not reported

**Tank Status:** Not reported

**Tank Contents:** Not reported

**Certificate Number:** Not reported

**Last Inspected:** Not reported

**Active:** Not reported

**Program:** Not reported

**Location:** Not reported

**Pulled Date:** Not reported

**Reason:** Not reported

**A5**

**Target:** MARIN CO AIRPORT  
**Property:** 451 AIRPORT RD STE A NOVATO, CA 94945

**Property:** NOVATO, CA 94945

**NPDES:** S102432987

**Actual:** 4 ft.

**Npdes Number:** Not reported

**Facility Status:** Active

**Agency Id:** 29848

**Region:** 2

**Regulatory Measure Id:** 182126

**Order No:** Not reported

**Order No Of General Order:** 97-03-DWQ

**Regulatory Measure Type:** Storm water industrial

**Place Id:** 239491

**WDID:** 210000647

**Program Type:** INDSTW

**Adoption Date Of Regulatory Measure:** Not reported

**Effective Date Of Regulatory Measure:** 3/17/1992

**Expiration Date Of Regulatory Measure:** Not reported

**Termination Date Of Regulatory Measure:** Not reported

**Discharge Name:** Marin Cnty

**Discharge Address:** PO Box 4186
MARIN CO AIRPORT (Continued)

Discharge Address 2: Not reported
Discharge City: San Rafael
Discharge State: CA
Discharge Zip: 94913

CA WDS:
Facility ID: San Francisco Bay 211000647
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS0000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 2
Facility Telephone: 4158971754
Facility Contact: KEN ROBBINS
Agency Name: MARIN CO
Agency Address: PO Box 4186
Agency City, St, Zip: San Rafael 949134186
Agency Contact: KEN ROBBINS
Agency Telephone: 4158971754
Agency Type: County
SIC Code: 0
SIC Code 2: Not reported
Primary Waste: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CORTES:
Region: CORTES
Facility County Code: 21
Reg By: LTNKA
Reg Id: 21-0298
### Site 6 of 6 in cluster A

<table>
<thead>
<tr>
<th>Site</th>
<th>Property Name</th>
<th>Address</th>
<th>City, State, Zip</th>
<th>EDR ID Number</th>
<th>Database(s)</th>
<th>EPA ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>A6</td>
<td>MARIN COUNTY AIRPORT (GNOSS FIELD)</td>
<td>451 AIRPORT ROAD</td>
<td>NOVATO, CA 94945</td>
<td>HAZNET S105722175</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Gepaid:** CAH111000330  
**Contact:** JESS ROWLES  
**Telephone:** 4154996548  
**Facility Addr2:** Not reported  
**Mailing Name:** Not reported  
**Mailing Address:** 3501 CIVIC CENTER DRIVE  
**Mailing City, St, Zip:** SAN RAFAEL, CA 949030000  
**Gen County:** San Bernardino  
**TSD County:** Marin  
**Waste Category:** Household waste  
**Disposal Method:** Not reported  
**Tons:** 0.33  
**Facility County:** Not reported

---

### Site 7

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<th>Site</th>
<th>Property Name</th>
<th>Address</th>
<th>City, State, Zip</th>
<th>EDR ID Number</th>
<th>Database(s)</th>
<th>EPA ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALLANA CORPORATION</td>
<td>MARIN COUNTY AIRPORT</td>
<td>650 BAIR ISLAND ROAD - SUITE #</td>
<td>REDWOOD CITY, CA 94063</td>
<td>HIST UST U001600325</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Relative:** Higher  
**Actual:**  

**Region:** STATE  
**Facility ID:** 00000015458  
**Facility Type:** Gas Station  
**Other Type:** Not reported  
**Total Tanks:** 0001  
**Contact Name:** CHARLES COYNE  
**Telephone:** 4158975185  
**Owner Name:** W.C. ERSTED  
**Owner Address:** 650 BAIR ISLAND ROAD - SUITE #  
**Owner City, St, Zip:** REDWOOD CITY, CA 94063

**Tank Num:** 001  
**Container Num:** 1  
**Year Installed:** 1968  
**Tank Capacity:** 00010000  
**Tank Used for:** PRODUCT  
**Type of Fuel:** Not reported  
**Tank Construction:** UNKNOWN unknown  
**Leak Detection:** Stock Inventor
### Completed Info:

<table>
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<tr>
<th>Completed Area Name</th>
<th>PROJECT WIDE</th>
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<tbody>
<tr>
<td>Completed Sub Area Name</td>
<td>Not reported</td>
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<tr>
<td>Completed Document Type</td>
<td>Site Screening</td>
</tr>
<tr>
<td>Completed Date</td>
<td>1990-02-06 00:00:00</td>
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<table>
<thead>
<tr>
<th>Completed Area Name</th>
<th>PROJECT WIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed Sub Area Name</td>
<td>Not reported</td>
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<tr>
<td>Completed Document Type</td>
<td>* Discovery</td>
</tr>
<tr>
<td>Completed Date</td>
<td>1987-01-25 00:00:00</td>
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<table>
<thead>
<tr>
<th>Completed Area Name</th>
<th>PROJECT WIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed Sub Area Name</td>
<td>Not reported</td>
</tr>
<tr>
<td>Completed Document Type</td>
<td>*Voluntary Cleanup Agreement Completion</td>
</tr>
<tr>
<td>Completed Date</td>
<td>1996-05-16 00:00:00</td>
</tr>
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</table>
NOVATO STORAGE PARK  (Continued)

Confirmed: 31000
Confirmed Description: No Contami
Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Media Affected: NMA
Media Affected Desc: Not reported

Management:
Management Required: NONE SPECIFIED
Management Required Desc: Not reported
Potential: NONE SPECIFIED, 31000
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

ENVIROSTOR:
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: Not reported
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Berkeley
Facility ID: 21420001
Site Code: Not reported
Assembly: 06
Senate: 03
Special Program: Voluntary Cleanup Program
Status: No Further Action
Status Date: 1996-05-16 00:00:00
Restricted Use: NO
Funding: Not reported
Latitude: 38.1406
Longitude: -122.5618
Alias Name: 21420001
Alias Type: Envirostor ID Number
Alias Name: 110033612277
Alias Type: EPA (FRS #)

APN: NONE SPECIFIED
APN Description: Not reported
Comments: Completed VCA. No further action required at the site based on the submission of a 1987 report showing the result of a detailed investigation of the drums, their contents, and the soil beneath them. Soil and drum were disposed at a Class III landfill Site Discovery. Facility identified by workplan received by DTSC. Completed Site Screening. Approximately fourteen 55-gallon drums were found in fill. A soil investigation is needed to
NOVATO STORAGE PARK (Continued)

characterize both the vertical and lateral extent of the soil contamination and see if there is potential leachate into bay mudunderlying the fill. Recommended PEA II.

Completed Info:
- Completed Area Name: PROJECT WIDE
- Completed Sub Area Name: Not reported
- Completed Document Type: Site Screening
- Completed Date: 1990-02-06 00:00:00

- Completed Area Name: PROJECT WIDE
- Completed Sub Area Name: Not reported
- Completed Document Type: * Discovery
- Completed Date: 1987-01-25 00:00:00

- Completed Area Name: PROJECT WIDE
- Completed Sub Area Name: Not reported
- Completed Document Type: * Voluntary Cleanup Agreement Completion
- Completed Date: 1996-05-16 00:00:00

- Confirmed: 31000
- Confirmed Description: No Contami
- Future Area Name: Not reported
- Future Sub Area Name: Not reported
- Future Document Type: Not reported
- Future Due Date: Not reported
- Media Affected: NMA
- Media Affected Desc: Not reported

Management:
- Management Required: NONE SPECIFIED
- Management Required Desc: Not reported
- Potential: NONE SPECIFIED, 31000
- 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
- PasUse: NONE

CORTESSE:
- Region: CORTESSE
- Facility County Code: 21
- Reg By: CALSI
- Reg Id: 21420001

B9  AERO FUEL, INC
West 351 AIRPORT ROAD
1/8-1/4
0.142 mi.
0.748 ft.
Site 1 of 4 in cluster B

Relative: UST:
Higher  Facility Id: 60-0558
Actual: Tank Number: 1

UST U003935975
N/A

TC2496047.2s Page 16
AERO FUEL, INC (Continued)

Tank Status: Active
Tank Contents: Motor vehicle fuel
Certificate Number: Not reported
Last Inspected: 10/15/2008
Active: Yes
Program: Not reported
Location: Not reported
Pulled Date: Not reported
Reason: Not reported

Tank Number: 1
Tank Status: Tank Removed
Tank Contents: Motor vehicle fuel
Certificate Number: Not reported
Last Inspected: 3/10/1998
Active: No
Program: Not reported
Location: Not reported
Pulled Date: Not reported
Reason: Not reported

Tank Number: 2
Tank Status: Active
Tank Contents: Motor vehicle fuel
Certificate Number: Not reported
Last Inspected: 10/15/2008
Active: Yes
Program: Not reported
Location: Not reported
Pulled Date: Not reported
Reason: Not reported

Tank Number: 2
Tank Status: Tank Removed
Tank Contents: Motor vehicle fuel
Certificate Number: Not reported
Last Inspected: 3/10/1998
Active: No
Program: Not reported
Location: Not reported
Pulled Date: Not reported
Reason: Not reported

B10
West
1/8-1/4
0.142 mi.
748 ft.
Site 2 of 4 in cluster B

EMC AVIATION SERVICES/EMC PETROLEUM
351 AIRPORT ROAD
NOVATO, CA

Relative: Higher
Actual: 5 ft.

UST: U003993463

Faculty Id: 60-0530
<table>
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<th>Map ID</th>
<th>Direction</th>
<th>Distance</th>
<th>Elevation</th>
<th>Site</th>
<th>Database(s)</th>
<th>EPA ID Number</th>
<th>EDR ID Number</th>
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</table>

**EMC AVIATION SERVICES/EMC PETROLEUM (Continued)**

- **Certificate Number:** 15801
- **Last Inspected:** 11/9/2004
- **Active:** No
- **Program:** Not reported
- **Location:** Not reported
- **Pulled Date:** Not reported
- **Reason:** Not reported

- **Tank Number:** 2
- **Tank Status:** Active
- **Tank Contents:** Not reported
- **Certificate Number:** 15801
- **Last Inspected:** 11/9/2004
- **Active:** No
- **Program:** Not reported
- **Location:** Not reported
- **Pulled Date:** Not reported
- **Reason:** Not reported

**B11**

- **AERO FUEL C/O INDUSTRIAL REALTY**
- **West**
- **351 AIRPORT RD.**
- **NOVATO, CA 94945**
- **UST:**
  - **Global ID:** 12908
  - **Latitude:** 38.14093
  - **Longitude:** -122.56271

- **UST:**
  - **Facility Id:** Not reported
  - **Tank Number:** Not reported
  - **Tank Status:** Not reported
  - **Tank Contents:** Not reported
  - **Certificate Number:** Not reported
  - **Last Inspected:** Not reported
  - **Active:** Not reported
  - **Program:** UST
  - **Location:** Not reported
  - **Pulled Date:** 1/16/1987
  - **Reason:** Not reported

- **Facility Id:** Not reported
- **Tank Number:** Not reported
- **Tank Status:** Not reported
- **Tank Contents:** Not reported
- **Certificate Number:** Not reported
- **Last Inspected:** Not reported
- **Active:** Not reported
- **Program:** UST
- **Location:** Closed Files
- **Pulled Date:** 1/6/1987
- **Reason:** Not reported
<table>
<thead>
<tr>
<th>Map ID</th>
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<th>Site</th>
<th>Elevation</th>
<th>Distance</th>
<th>Reason</th>
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<tbody>
<tr>
<td>B12</td>
<td>West</td>
<td>NORTHERN LIGHTS AVIATION</td>
<td>752 ft.</td>
<td>0.142 mi.</td>
<td>Not reported</td>
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</table>

Facility Id: 60-0477

**UST: U004051133**

**Site 4 of 4 in cluster B**

**Location:** NOVATO, CA

**Database(s):** N/A
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<tr>
<th>City</th>
<th>EDR ID</th>
<th>Site Name</th>
<th>Site Address</th>
<th>Zip</th>
<th>Database(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARIN COUNTY</td>
<td>S03602380</td>
<td>NOVATOまいはし営業所</td>
<td>NOVATOまいはし営業所</td>
<td>NOVATO</td>
<td>NOVATO</td>
</tr>
<tr>
<td>NOVATO</td>
<td>U004072913</td>
<td>LIVING HISTORY CENTER</td>
<td>AHERTON AVE @ BINFORD RD</td>
<td>94945</td>
<td>UST</td>
</tr>
<tr>
<td>NOVATO</td>
<td>S106238502</td>
<td>RUSH CREEK ESTATES</td>
<td>UNKNOWN AIRPORT RD / BINFORD</td>
<td>94945</td>
<td>SLC</td>
</tr>
<tr>
<td>NOVATO</td>
<td>S106233852</td>
<td>SUPER IGNACIO SERVICE</td>
<td>578 REDWOOD HIGHWAY</td>
<td>94945</td>
<td>SLC</td>
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<tr>
<td>NOVATO</td>
<td>U004051166</td>
<td>NOVATO STORAGE PARK RANCHO DEL PAN</td>
<td>578 REDWOOD HIGHWAY</td>
<td>94945</td>
<td>SLC</td>
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<tr>
<td>NOVATO</td>
<td>S106349900</td>
<td>NOVATO STORAGE PARK RANCHO DEL PAN</td>
<td>578 REDWOOD HIGHWAY</td>
<td>94945</td>
<td>SLC</td>
</tr>
</tbody>
</table>
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
- **Telephone:** N/A
- **Last EDR Contact:** 04/20/2009
- **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 3
  - Telephone 215-814-5418
- EPA Region 4
  - Telephone 404-562-8033
- EPA Region 5
  - Telephone 312-886-6686
- EPA Region 6
  - Telephone: 214-655-6659
- EPA Region 7
  - Telephone: 913-551-7247
- EPA Region 8
  - Telephone: 303-312-6774
- EPA Region 9
  - Telephone: 415-947-4246
- EPA Region 10
  - Telephone: 206-553-8665

**Proposed NPL:** Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

- **Date of Government Version:** 02/02/2009
- **Source:** EPA
- **Telephone:** N/A
- **Last EDR Contact:** 04/20/2009
- **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
- **Telephone:** 202-564-4267
- **Last EDR Contact:** 05/17/2009
- **Next Scheduled EDR Contact:** 08/17/2009
- **Data Release Frequency:** No Update Planned
Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/02/2009
Date Data Arrived at EDR: 02/12/2009
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 46

Source: EPA
Telephone: N/A
Last EDR Contact: 04/20/2009
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
Date Data Arrived at EDR: 01/30/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 101

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 05/15/2009
Next Scheduled EDR Contact: 07/13/2009
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
Date Data Arrived at EDR: 12/06/2007
Date Made Active in Reports: 02/20/2008
Number of Days to Update: 76

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 03/16/2009
Next Scheduled EDR Contact: 06/15/2009
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
Date Data Arrived at EDR: 04/02/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 39

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/03/2009
Next Scheduled EDR Contact: 06/01/2009
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.
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  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: 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  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: 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  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

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  Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/22/2009  Telephone: 703-603-0695
Date Made Active in Reports: 05/05/2009  Last EDR Contact: 03/30/2009
Number of Days to Update: 13  Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Varies
US INST CONTROL: Sites with Institutional Controls
A listing of sites with institutional controls in place. Institutional controls include administrative measures,
such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation
care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally
required as part of the institutional controls.

Date of Government Version: 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: 03/30/2009
Next Scheduled EDR Contact: 06/29/2009
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: 12/31/2007
Date Data Arrived at EDR: 01/23/2008
Date Made Active in Reports: 03/17/2008
Number of Days to Update: 54

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: 02/23/2009
Date Data Arrived at EDR: 02/24/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2009
Next Scheduled EDR Contact: 05/25/2009
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: 02/23/2009
Date Data Arrived at EDR: 02/24/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2009
Next Scheduled EDR Contact: 05/25/2009
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.
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: 02/14/2005
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

Data Release Frequency: Varies

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: 03/24/2005
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 530-542-5572

Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 760-776-8943

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: 760-241-7365

Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

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

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.
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

LUST REG 2: Fuel Leak List

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

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

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

LUST REG 5: Leaking Underground Storage Tank Database

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

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.
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.

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.

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.

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.

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.

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.
INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
Date of Government Version: 03/03/2009
Date Data Arrived at EDR: 03/04/2009
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 26
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/17/2009
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: 04/01/2008
Date Data Arrived at EDR: 12/03/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 20
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 02/20/2009
Next Scheduled EDR Contact: 05/18/2009
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: 03/13/2009
Date Data Arrived at EDR: 03/17/2009
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 13
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 05/17/2009
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
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/17/2009
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Quarterly

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
Date Data Arrived at EDR: 03/03/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 63
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 05/17/2009
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
Date Data Arrived at EDR: 04/08/2009
Date Made Active in Reports: 05/14/2009
Number of Days to Update: 36
Source: SWRCB
Telephone: 916-480-1028
Last EDR Contact: 04/08/2009
Next Scheduled EDR Contact: 07/06/2009
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
Registered Aboveground Storage Tanks.
Date of Government Version: 11/01/2007
Date Data Arrived at EDR: 02/10/2009
Date Made Active in Reports: 04/14/2009
Number of Days to Update: 63
Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 05/11/2009
Next Scheduled EDR Contact: 07/27/2009
Data Release Frequency: Quarterly
INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 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: 04/06/2009
Source: EPA Region 6
Date Data Arrived at EDR: 04/07/2009
Telephone: 214-665-7591
Date Made Active in Reports: 05/11/2009
Last EDR Contact: 05/17/2009
Number of Days to Update: 34
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: 02/20/2009
Number of Days to Update: 76
Next Scheduled EDR Contact: 05/18/2009
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: 03/13/2009
Source: EPA Region 8
Date Data Arrived at EDR: 03/17/2009
Telephone: 303-312-6137
Date Made Active in Reports: 03/30/2009
Last EDR Contact: 05/17/2009
Number of Days to Update: 13
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Quarterly
INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 03/03/2009
Date Data Arrived at EDR: 03/04/2009
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 26

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/17/2009
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
Date Data Arrived at EDR: 12/16/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 90

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/17/2009
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
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC’s costs.

Date of Government Version: 02/23/2009
Date Data Arrived at EDR: 02/24/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
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
Date Data Arrived at EDR: 11/14/2008
Date Made Active in Reports: 12/23/2008
Number of Days to Update: 39
Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: Semi-Annually

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 05/15/2009

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
Date Data Arrived at EDR: 04/17/2008
Date Made Active in Reports: 05/15/2008
Number of Days to Update: 28
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: Varies

Source: EPA, Region 9
Telephone: 415-972-3336
Last EDR Contact: 04/07/2009

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Next Scheduled EDR Contact: 06/01/2009
Data Release Frequency: Quarterly

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 03/04/2009

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 04/07/2009
Date Data Arrived at EDR: 04/08/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 33
Next Scheduled EDR Contact: 07/06/2009
Data Release Frequency: Quarterly

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 04/08/2009
HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

- 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: Integrated Waste Management Board
- Telephone: 916-341-6422
- Last EDR Contact: 04/07/2009
- Next Scheduled EDR Contact: 06/08/2009
- 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
- Date Data Arrived at EDR: 12/03/2007
- Date Made Active in Reports: 01/24/2008
- Number of Days to Update: 52
- Source: Environmental Protection Agency
- Telephone: 703-308-8245
- Last EDR Contact: 02/23/2009
- Next Scheduled EDR Contact: 05/25/2009
- 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
- Date Data Arrived at EDR: 10/31/2008
- Date Made Active in Reports: 12/23/2008
- Number of Days to Update: 53
- Source: Drug Enforcement Administration
- Telephone: 202-307-1000
- Last EDR Contact: 03/26/2009
- 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
- Date Data Arrived at EDR: 08/03/2006
- Date Made Active in Reports: 08/24/2006
- Number of Days to Update: 21
- Source: Department of Toxic Substance Control
- Telephone: 916-323-3400
- Last EDR Contact: 02/23/2009
- Next Scheduled EDR Contact: 05/25/2009
- Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

- Date of Government Version: 02/23/2009
- Date Data Arrived at EDR: 02/24/2009
- Date Made Active in Reports: 04/08/2009
- Number of Days to Update: 43
- Source: Department of Toxic Substances Control
- Telephone: 916-323-3400
- Last EDR Contact: 02/24/2009
- Next Scheduled EDR Contact: 05/25/2009
- 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.
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.

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.

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.

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.

Local Land Records
LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2009
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: 202-564-6023
Last EDR Contact: 05/18/2009
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
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31
Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 03/09/2009
Next Scheduled EDR Contact: 06/08/2009
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: 02/13/2009
Date Data Arrived at EDR: 02/17/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 50
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/04/2009
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
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 8
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/30/2009
Next Scheduled EDR Contact: 06/29/2009
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: 12/31/2008
Date Data Arrived at EDR: 01/30/2009
Date Made Active in Reports: 05/05/2009
Number of Days to Update: 95
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/16/2009
Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: Annually
CHMIRS: California Hazardous Material Incident Report System

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

- Date of Government Version: 12/31/2007
- Source: Office of Emergency Services
- Telephone: 916-845-8400

- Date Data Arrived at EDR: 05/09/2008
- Last EDR Contact: 05/18/2009
- Next Scheduled EDR Contact: 08/17/2009

- Date Made Active in Reports: 06/20/2008
- Number of Days to Update: 42
- 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
- Telephone: 866-480-1028

- Date Data Arrived at EDR: 04/08/2009
- Last EDR Contact: 04/08/2009

- Date Made Active in Reports: 05/11/2009
- Next Scheduled EDR Contact: 07/06/2009

- Number of Days to Update: 33
- 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
- Telephone: 866-480-1028

- Date Data Arrived at EDR: 04/08/2009
- Last EDR Contact: 04/08/2009

- Date Made Active in Reports: 05/11/2009
- Next Scheduled EDR Contact: 07/06/2009

- Number of Days to Update: 33
- 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
- Telephone: (415) 495-8895

- Date Data Arrived at EDR: 11/18/2008
- Last EDR Contact: 04/23/2009

- Date Made Active in Reports: 03/16/2009
- Next Scheduled EDR Contact: 07/20/2009

- Number of Days to Update: 118
- 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
- Telephone: 202-366-4595

- Date Data Arrived at EDR: 05/28/2008
- Last EDR Contact: 02/24/2009

- Date Made Active in Reports: 08/08/2008
- Next Scheduled EDR Contact: 05/25/2009

- Number of Days to Update: 72
- Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.
Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62  
Source: USGS  
Telephone: 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: US Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 03/30/2009  
Next Scheduled EDR Contact: 08/03/2009  
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: 01/27/2009  
Date Data Arrived at EDR: 02/04/2009  
Date Made Active in Reports: 05/05/2009  
Number of Days to Update: 90  
Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 03/30/2009  
Next Scheduled EDR Contact: 06/29/2009  
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: 03/16/2009  
Next Scheduled EDR Contact: 06/15/2009  
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: 03/24/2009  
Next Scheduled EDR Contact: 06/22/2009  
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.
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.

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.

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.

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.
### Section 7 Tracking Systems (SSTS)

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.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Environmental Protection Agency</th>
</tr>
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<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
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<td>04/10/2007</td>
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<td>Number of Days to Update</td>
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<td>Data Release Frequency</td>
<td>No Update Planned</td>
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</table>

### Integrated Compliance Information System (ICIS)

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.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: EPA</th>
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<tr>
<td>Date Data Arrived at EDR</td>
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<td>Next Scheduled EDR Contact</td>
<td>07/13/2009</td>
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<tr>
<td>Data Release Frequency</td>
<td>Annually</td>
</tr>
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</table>

### PCB Activity Database System (PADS)

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.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: EPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
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<td>Date Made Active in Reports</td>
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<td>Number of Days to Update</td>
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<td>Next Scheduled EDR Contact</td>
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<tr>
<td>Data Release Frequency</td>
<td>Quarterly</td>
</tr>
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</table>

### Material Licensing Tracking System (MLTS)

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.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Nuclear Regulatory Commission</th>
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<td>Date Data Arrived at EDR</td>
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<td>Number of Days to Update</td>
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<td>Next Scheduled EDR Contact</td>
<td>06/29/2009</td>
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<tr>
<td>Data Release Frequency</td>
<td>Annually</td>
</tr>
</tbody>
</table>

### Radiation Information Database (RADINFO)

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Environmental Protection Agency</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
<td>04/29/2009</td>
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<td>Date Made Active in Reports</td>
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<td>Number of Days to Update</td>
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<td>07/27/2009</td>
</tr>
<tr>
<td>Data Release Frequency</td>
<td>Quarterly</td>
</tr>
</tbody>
</table>
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: 01/20/2009  
Date Data Arrived at EDR: 01/23/2009  
Date Made Active in Reports: 05/05/2009  
Number of Days to Update: 102  
Next Scheduled EDR Contact: 06/29/2009  
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  
Date Data Arrived at EDR: 07/03/1995  
Date Made Active in Reports: 08/07/1995  
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: 12/31/2005  
Date Data Arrived at EDR: 03/06/2007  
Date Made Active in Reports: 04/13/2007  
Number of Days to Update: 38  
Next Scheduled EDR Contact: 06/08/2009  
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  
Date Data Arrived at EDR: 07/27/1994  
Date Made Active in Reports: 08/02/1994  
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  
Date Data Arrived at EDR: 03/13/2009  
Date Made Active in Reports: 04/08/2009  
Number of Days to Update: 26  
Next Scheduled EDR Contact: 06/08/2009  
Data Release Frequency: Quarterly

CA WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.
**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.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: CAL EPA/Office of Emergency Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
<td>04/20/2009</td>
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<td>Date Made Active in Reports</td>
<td>05/11/2009</td>
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<td>Number of Days to Update</td>
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<td>07/20/2009</td>
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<td>Data Release Frequency</td>
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**HIST CORTESE: Hazardous Waste & Substance Site List**

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES].

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Department of Toxic Substances Control</th>
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<td>Date Data Arrived at EDR</td>
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<td>Date Made Active in Reports</td>
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<tr>
<td>Data Release Frequency</td>
<td>No Update Planned</td>
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</table>

**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.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: State Water Resources Control Board</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
<td>10/21/1993</td>
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<tr>
<td>Date Made Active in Reports</td>
<td>11/01/1993</td>
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<td>Number of Days to Update</td>
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<td>07/13/2009</td>
</tr>
<tr>
<td>Data Release Frequency</td>
<td>No Update Planned</td>
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</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Department of Toxic Substance Control</th>
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</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
<td>05/06/2009</td>
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<tr>
<td>Date Made Active in Reports</td>
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<td>Number of Days to Update</td>
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<td>03/30/2009</td>
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<tr>
<td>Data Release Frequency</td>
<td>Annually</td>
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**WIP: Well Investigation Program Case List**

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Los Angeles Water Quality Control Board</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
<td>03/31/2009</td>
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<tr>
<td>Date Made Active in Reports</td>
<td>04/24/2009</td>
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<td>Number of Days to Update</td>
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<tr>
<td>Next Scheduled EDR Contact</td>
<td>07/20/2009</td>
</tr>
<tr>
<td>Data Release Frequency</td>
<td>Varies</td>
</tr>
</tbody>
</table>

**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.
EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

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.

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.

FEDLAND: Federal and Indian Lands

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.
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
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
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/24/2009
Date Data Arrived at EDR: 02/25/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 42
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
Date Data Arrived at EDR: 04/17/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 24
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
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 04/09/2009
Number of Days to Update: 9
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 03/30/2009
Next Scheduled EDR Contact: 06/01/2009
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
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0
Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 04/13/2009
Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.
Date of Government Version: 11/26/2008
Date Data Arrived at EDR: 01/27/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 71
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 05/11/2009
Next Scheduled EDR Contact: 08/10/2009
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.
Date of Government Version: 04/21/2009
Date Data Arrived at EDR: 04/21/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 20
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: 03/10/2009
Next Scheduled EDR Contact: 06/08/2009
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.
City of El Segundo Underground Storage Tank
Underground storage tank sites located in the city of El Segundo.

Date of Government Version: 02/09/2009
Date Data Arrived at EDR: 02/17/2009
Date Made Active in Reports: 04/09/2009
Number of Days to Update: 51
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: 02/20/2009
Next Scheduled EDR Contact: 05/18/2009
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: 05/11/2009
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:
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: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
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: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: Annually

ORANGE COUNTY:
List of Industrial Site Cleanups
Petroleum and non-petroleum spills.
Date of Government Version: 03/02/2009  Source: Health Care Agency
Date Data Arrived at EDR: 03/18/2009  Telephone: 714-834-3446
Date Made Active in Reports: 04/08/2009  Last EDR Contact: 03/05/2009
Number of Days to Update: 21  Next Scheduled EDR Contact: 06/01/2009
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).
Date of Government Version: 03/02/2009  Source: Health Care Agency
Date Data Arrived at EDR: 03/27/2009  Telephone: 714-834-3446
Date Made Active in Reports: 04/08/2009  Last EDR Contact: 03/05/2009
Number of Days to Update: 12  Next Scheduled EDR Contact: 06/01/2009
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).
Date of Government Version: 03/02/2009  Source: Health Care Agency
Date Data Arrived at EDR: 03/18/2009  Telephone: 714-834-3446
Date Made Active in Reports: 04/09/2009  Last EDR Contact: 12/02/2009
Number of Days to Update: 22  Next Scheduled EDR Contact: 06/01/2009
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  Source: Placer County Health and Human Services
Date Data Arrived at EDR: 04/28/2009  Telephone: 530-889-7312
Date Made Active in Reports: 05/11/2009  Last EDR Contact: 04/03/2009
Number of Days to Update: 13  Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

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: 04/13/2009
Number of Days to Update: 26  Next Scheduled EDR Contact: 07/13/2009
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: 04/13/2009
Number of Days to Update: 7  Next Scheduled EDR Contact: 07/13/2009
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
Date Data Arrived at EDR: 04/29/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 12
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/29/2009
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
Date Data Arrived at EDR: 04/29/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 12
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/29/2009
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
Date Data Arrived at EDR: 04/08/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 33
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 03/03/2009
Next Scheduled EDR Contact: 06/01/2009
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.)

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: 04/03/2009
Next Scheduled EDR Contact: 06/29/2009
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  Source: San Diego County Department of Environmental Health
Date Data Arrived at EDR: 03/31/2009  Telephone: 619-338-2371
Date Made Active in Reports: 04/08/2009  Last EDR Contact: 03/31/2009
Number of Days to Update: 8  Next Scheduled EDR Contact: 06/29/2009
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  Source: Department Of Public Health San Francisco County
Date Data Arrived at EDR: 09/19/2008  Telephone: 415-252-3920
Date Made Active in Reports: 09/29/2008  Last EDR Contact: 03/30/2009
Number of Days to Update: 10  Next Scheduled EDR Contact: 06/01/2009
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008  Source: Department of Public Health
Date Data Arrived at EDR: 09/19/2008  Telephone: 415-252-3920
Date Made Active in Reports: 10/01/2008  Last EDR Contact: 03/16/2009
Number of Days to Update: 12  Next Scheduled EDR Contact: 06/01/2009
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: 02/10/2009  Source: Environmental Health Department
Date Data Arrived at EDR: 02/25/2009  Telephone: N/A
Date Made Active in Reports: 04/09/2009  Last EDR Contact: 04/13/2009
Number of Days to Update: 43  Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 04/29/2009  Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 05/01/2009  Telephone: 650-363-1921
Date Made Active in Reports: 04/09/2009  Last EDR Contact: 04/07/2009
Number of Days to Update: 10  Next Scheduled EDR Contact: 07/06/2009
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  Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 04/07/2009  Telephone: 650-363-1921
Date Made Active in Reports: 05/11/2009  Last EDR Contact: 04/07/2009
Number of Days to Update: 34  Next Scheduled EDR Contact: 07/06/2009
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: 12/29/2008
Date Data Arrived at EDR: 12/29/2008
Date Made Active in Reports: 01/27/2009
Number of Days to Update: 29
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/18/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: Varies

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 03/03/2009
Date Data Arrived at EDR: 03/03/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 36
Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 03/03/2009
Next Scheduled EDR Contact: 06/01/2009
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: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: Quarterly

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: 03/23/2009
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
Next Scheduled EDR Contact: 06/29/2009
Data Release Frequency: Semi-Annually
Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/30/2009

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
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Quarterly
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/10/2009

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
Next Scheduled EDR Contact: 08/17/2009
Data Release Frequency: Annually
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/17/2009

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
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Annually
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/09/2009

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
Date Data Arrived at EDR: 04/08/2009
Date Made Active in Reports: 05/14/2009
Number of Days to Update: 36
Next Scheduled EDR Contact: 07/06/2009
Data Release Frequency: Quarterly
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/08/2009

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.
Date of Government Version: 04/21/2009
Date Data Arrived at EDR: 05/06/2009
Date Made Active in Reports: 05/14/2009
Number of Days to Update: 8
Next Scheduled EDR Contact: 07/13/2009
Data Release Frequency: Annually
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 04/13/2009
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
Date Data Arrived at EDR: 12/11/2008
Date Made Active in Reports: 03/19/2009
Number of Days to Update: 98
Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 03/13/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 09/30/2007
Date Data Arrived at EDR: 12/04/2007
Date Made Active in Reports: 12/31/2007
Number of Days to Update: 27
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 05/05/2009
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: 01/27/2009
Date Data Arrived at EDR: 02/25/2009
Date Made Active in Reports: 03/12/2009
Number of Days to Update: 15
Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/25/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: Annually

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: 03/09/2009
Next Scheduled EDR Contact: 06/08/2009
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 02/12/2009
Date Made Active in Reports: 03/11/2009
Number of Days to Update: 27
Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 03/16/2009
Next Scheduled EDR Contact: 06/15/2009
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: 04/07/2009
Next Scheduled EDR Contact: 07/06/2009
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.

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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TARGET PROPERTY ADDRESS

GNOS AIRPORT
451 AIRPORT ROAD
NOVATO, CA 94945

TARGET PROPERTY COORDINATES

Latitude (North): 38.14090 - 38° 8’ 27.2”
Longitude (West): 122.56 - 122° 33’ 36.0”
Universal Tranverse Mercator: Zone 10
UTM X (Meters): 538557.9
UTM Y (Meters): 4221334.0
Elevation: 4 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38122-B5 PETALUMA RIVER, 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.
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 ENE

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.
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
<table>
<thead>
<tr>
<th>Target Property County</th>
<th>FEMA Flood Electronic Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARIN, CA</td>
<td>YES - refer to the Overview Map and Detail Map</td>
</tr>
</tbody>
</table>

Flood Plain Panel at Target Property: 0601730145A
Additional Panels in search area:
- 0601730140A
- 0601780003C
- 0601780002C

NATIONAL WETLAND INVENTORY
<table>
<thead>
<tr>
<th>NWI Quad at Target Property</th>
<th>NWI Electronic Data Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>PETALUMA RIVER</td>
<td>YES - refer to the Overview Map and Detail Map</td>
</tr>
</tbody>
</table>

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*:
<table>
<thead>
<tr>
<th>Search Radius</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.25 miles</td>
<td>Not found</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>LOCATION FROM TP</th>
<th>GENERAL DIRECTION GROUNDWATER FLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/8 - 1/4 Mile West E</td>
<td></td>
</tr>
</tbody>
</table>

For additional site information, refer to Physical Setting Source Map Findings.

* ©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.
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  GEOLOGIC AGE IDENTIFICATION

<table>
<thead>
<tr>
<th>Era:</th>
<th>Mesozoic</th>
</tr>
</thead>
<tbody>
<tr>
<td>System:</td>
<td>Cretaceous</td>
</tr>
<tr>
<td>Series:</td>
<td>Lower Cretaceous</td>
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Category: Stratified Sequence

(decoded above as Era, System & Series)

Soil Map ID: 1

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<tr>
<th>Boundary</th>
<th>Classification</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
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<td>Layer</td>
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<td>Lower</td>
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Soil Map ID: 2

Soil Component Name: XERORTHENTS

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Not hydric
Corrosion Potential - Uncoated Steel: Not Reported
Depth to Bedrock Min: > 0 inches
Depth to Watertable Min: > 0 inches
No Layer Information available.

Soil Map ID: 3
Soil Component Name: URBAN LAND
Soil Surface Texture: clay
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
Soil Drainage Class:
Hydric Status: Partially hydric
Corrosion Potential - Uncoated Steel: Not Reported
Depth to Bedrock Min: > 0 inches
Depth to Watertable Min: > 0 inches
No Layer Information available.

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

<table>
<thead>
<tr>
<th>DATABASE</th>
<th>SEARCH DISTANCE (miles)</th>
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<tbody>
<tr>
<td>Federal USGS</td>
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</tr>
<tr>
<td>Federal FRDS PWS</td>
<td>Nearest PWS within 1 mile</td>
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<tr>
<td>State Database</td>
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FEDERAL USGS WELL INFORMATION

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### FEDERAL USGS WELL INFORMATION

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No Wells Found

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

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No PWS System Found

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

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<td>1/4 - 1/2 Mile SSW</td>
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### Water System Information:

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<td>3.32 UG/L</td>
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<td>DICHLOROACETIC ACID (DCAA)</td>
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<td></td>
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<td>15.32 UG/L</td>
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**NOVATO-VIC**

- Area Served: NOVATO, VIC 94948
- Pop Served: 55000
- Connections: 17195

**Primes Station Code:** D21/003-MA.AQDT
**User ID:** ENG
**FRDS Number:** 2110003001
**County:** Marin
**District Number:** 04
**Station Type:** STREAM/AMBNT/MUN/INTAKE
**Water Type:** Surface Water
**Well Status:** Active Treated
**Source Lat/Long:** 380807.5 1223347.5
**Source Name:** MARIN AQUEDUCT-PURCHASED-SONOMA CO-TRTD
**System Number:** 2110003
**System Name:** North Marin Water District

**Organization That Operates System:**
North Marin Water District

**Address:**
P.O. BOX 146
NOVATO, CA 94948

**Date:** 10/31/1995
**Average Water Depth:** Not Reported
**Deep Water Depth:** 4.5
**Shallow Water Depth:** 4.5

**Groundwater Flow:** E
**Site ID:** 21-0298

**Active Treated Groundwater Well Status:**

**Well Status:**
- Surface Water
- Well Status: Active Treated

**Source Lat/Long:** 380807.5 1223347.5
**Precision:** 1,000 Feet (10 Seconds)

**Station Type:**
- 04

**Prime Station Code:**
- D21/003-MA.AQDT
- User ID: ENG

**FRDS Number:** 2110003001
**County:** Marin

**District Number:**
- 04

**Station Type:**
- STREAM/AMBNT/MUN/INTAKE

**Water Type:** Surface Water

**Well Status:**
- Active Treated

**Source Lat/Long:**
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- Precision: 1,000 Feet (10 Seconds)

**Source Name:**
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**Date:** 10/31/1995
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**Deep Water Depth:** 4.5
**Shallow Water Depth:** 4.5

**Groundwater Flow:** E
**Site ID:** 21-0298
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<thead>
<tr>
<th>Sample Collected</th>
<th>Chemical:</th>
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Area Radon Information

State Database: CA Radon

Radon Test Results

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Federal EPA Radon Zone for MARIN County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
      Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
      Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 94945

Number of sites tested: 6

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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® 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

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.
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

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

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 IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.
OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Coordination

June 26, 2009 Letter from California Regional Water Quality Control Board
Soil and Groundwater Investigation Workplan
THIS PAGE INTENTIONALLY LEFT BLANK
June 26, 2009
File No. 21-0298 (JMJ)

Marin County Department of Public Works
Attn: Mr. Lawrence Beaton
(email lbeaton@co.marin.ca.us)
P. O. Box 4186
San Rafael, CA 94913

SUBJECT: Requirement for a Technical Report - Marin County Airport/Gnoss Field
451 Airport Road, Novato, Marin County

Dear Mr. Beaton:

This letter directs you to submit a technical report for the subject site.

Background
Gnoss Field is a small airport in Novato constructed on filled wetlands and is surrounded by open fields and marshlands. One jet fuel and two aviation gasoline USTs were removed in 1991. The USTs and product lines were pitted and had holes in them. Two grab groundwater samples from the UST pit contained up to 7,900 ppb of TPH-g, 5,900 ppb of TPH-d, and 130 ppb of benzene. Four borings were installed on May 31, 1995, and nine additional borings were installed on July 5, 1995. Grab groundwater samples from the borings contained up to 1,100 ppb of TPH-d, 810 ppb of TPH-g, 4,000 ppb of total petroleum hydrocarbons as bunker C fuel (TPH-b), 30,000 ppb of jet fuel (TPH-jf), and 51 ppb of benzene. Soil samples contained up to 1,300 mg/kg of motor oil (TPH-mo) with low concentrations of TPH-g, TPH-d, TPH-b, and benzene.

In 1999 during excavation work to replace a section of the storm drain sewer line, groundwater with a sheen and solvent-like and petroleum odors were encountered. Sixty three tons of soil and 9,600 gallons of groundwater were subsequently removed from the excavation and transported off-site to proper disposal facilities. Soil samples of the excavated soil contained up to 570 mg/kg of TPH-g, 750 mg/kg of TPH-d, 750 mg/kg of TPH-kerosene, 1,100 mg/kg of TPH-mo, 1,300 mg/kg of TPH-b, and non-detectable concentrations of benzene. Soil confirmation samples from the final limits of the excavation contained much lower concentrations of the aforementioned compounds. A grab groundwater sample from the excavation contained 960 ppb of TPH-g, 890 ppb of TPH-d, 820 ppb of TPH-k, 1,100 ppb of TPH-b, 1.4 ppb of benzene, and non-detectable concentrations of TPH-mo and MTBE.

This subsurface contamination poses a potential threat to human health and water quality and needs to be addressed.
Requirement for a Technical Report
Marin County shall submit a technical report comprising the following items:

- A work plan to conduct a subsurface investigation to determine the extent of the soil and groundwater pollution.
- Information on the nearby surface water bodies.
- Information on all domestic and municipal wells within 1,000 feet of the subject site.

Marin County is required to submit a technical report to our office by October 1, 2009, that contains the above listed items.

Marin County is the responsible party for the contamination because they own and operate the site.

This requirement for a report is made pursuant to Water Code Section 13267, which allows the Board to require reports from persons whose activities may have an impact on water quality. An enclosure to this letter provides additional information about Section 13267 requirements. Any extension in the above deadline must be confirmed in writing by Board staff.

You are required to submit all documents in electronic format to the State Water Resources Control Board’s Geotracker database. Guidance for electronic information submittal is available at http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/. Please note that this requirement includes all analytical data, monitoring well latitudes, longitudes, and elevations, water depths, site maps, boring logs (PDF format), and complete copies of reports and correspondence including the signed transmittal letters and professional certifications (PDF format). All reports submitted should have the Regional Board file number 21-0298 on the first page of the report.

Copies of all reports and correspondence shall be sent to Mr. Michael Frost of the Marin County Office of Waste Management. You are responsible for obtaining any necessary approvals or permits from all agencies having jurisdiction over any aspect of the proposed work. These agencies may include the local Building Dept., Planning Dept., Public Works, and the Marin County Environmental Health Services department (contact number 415-499-6667).

Please direct all questions and correspondence regarding this matter to John Jang of my staff at (510) 622-2366 (email address jiang@waterboards.ca.gov).

Sincerely,

Bruce H. Wolfe
Executive Officer

cc:
Shari Knieriem, SWRCB, UST Cleanup Fund Unit (email sknieriem@waterboards.ca.gov)
Sunil Ramdass, SWRCB, UST Cleanup Fund Unit (email sramdass@waterboards.ca.gov)

Armando Alegria (email aalegria@co.marin.ca.us)
Marin County Health Dept.
3501 Civic Center Drive, Room 236
San Rafael, CA 94903

Michael Frost (email mfrost@co.marin.ca.us)
Marin County Office of Waste Management
P. O. Box 4186
San Rafael, CA 94913-3039

Mr. John Calomiris (email corpmail@ecaenviron.com)
Edd Clark & Asso., Inc.
P. O. Box 3039
Rohnert Park, CA 94927-3039
Fact Sheet – Requirements For Submitting Technical Reports Under Section 13267 of the California Water Code

What does it mean when the Regional Water Board requires a technical report?
Section 13267\(^1\) of the California Water Code provides that “…the regional board may require that any person who has discharged, discharges, or who is suspected of having discharged or discharging, or who proposes to discharge waste…that could affect the quality of waters…shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires.”

This requirement for a technical report seems to mean that I am guilty of something, or at least responsible for cleaning something up. What if that is not so?
The requirement for a technical report is a tool the Regional Water Board uses to investigate water quality issues or problems. The information provided can be used by the Regional Water Board to clarify whether a given party has responsibility.

Are there limits to what the Regional Water Board can ask for?
Yes. The information required must relate to an actual or suspected or proposed discharge of waste (including discharges of waste where the initial discharge occurred many years ago), and the burden of compliance must bear a reasonable relationship to the need for the report and the benefits obtained. The Regional Water Board is required to explain the reasons for its request.

What if I can provide the information, but not by the date specified?
A time extension may be given for good cause. Your request should be promptly submitted in writing, giving reasons.

Are there penalties if I don’t comply?
Depending on the situation, the Regional Water Board can impose a fine of up to $5,000 per day, and a court can impose fines of up to $25,000 per day as well as criminal penalties. A person who submits false information or fails to comply with a requirement to submit a technical report may be found guilty of a misdemeanor. For some reports, submission of false information may be a felony.

Do I have to use a consultant or attorney to comply?
There is no legal requirement for this, but as a practical matter, in most cases the specialized nature of the information required makes use of a consultant and/or attorney advisable.

What if I disagree with the 13267 requirements and the Regional Water Board staff will not change the requirement and/or date to comply?
You may ask that the Regional Water Board reconsider the requirement, and/or submit a petition to the State Water Resources Control Board. See California Water Code sections 13320 and 13321 for details. A request for reconsideration to the Regional Water Board does not affect the 30-day deadline within which to file a petition to the State Water Resources Control Board.

If I have more questions, whom do I ask?
Requirements for technical reports include the name, telephone number, and email address of the Regional Water Board staff contact.

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\(^1\) All code sections referenced herein can be found by going to www.leginfo.ca.gov.
Dear Mr. Beaton:

Please accept the following as Edd Clark and Associates, Inc.'s (ECA's) workplan for a soil and groundwater investigation in the area formerly occupied by underground storage tanks (USTs) at the Marin County Airport (Gnoss Field), 451-A Airport Road (site) in Novato, California (Figure 1). Based on the results of previous site investigations, the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) issued a letter dated June 26, 2009, requiring the submittal of a workplan to assess the extent of soil and groundwater impacted by fuel hydrocarbons (FHCs). In addition, the SFBRWQCB required a Sensitive Receptor Survey (SRS) to identify nearby surface-water bodies and domestic and municipal wells within 1,000 feet (ft) of the site. A copy of this workplan will be submitted to the SFBRWQCB for their review and approval and to the Marin County Office of Waste Management (MCOWM) and Marin County Environmental Health Services (MCEHS) for their files; a SRS report will be submitted under separate cover. Additionally, an electronic copy of this workplan will be uploaded to the State GeoTracker Internet Database (GeoTracker).

PROPOSED SCOPE OF WORK

Work proposed for this investigation includes the following activities:

- Obtaining a boring permit from the MCEHS;
- Directing the drilling of 10 exploratory soil borings;
- Collecting soil samples from the borings for evaluation of soil conditions and laboratory analyses;
- Preparing a report summarizing the work completed and results of the sample analyses and presenting conclusions and recommendations regarding site conditions.
BACKGROUND

Site Description
The site is located just north of city of Novato in Marin County, California. The site is currently occupied by the Marin County Airport (Gnoss Field), a small airport with associated service and maintenance buildings. Highway 101 is 2000 ft west of the site. The Petaluma River is located 7000 ft to the northeast of the site. A drainage ditch that drains to the east and connects with Black John Slough is 800 ft south of the site. According to GPI Environmental Management's October 31, 1995, Site Summary Documentation/Request for Case Closure report prepared for the site, MCEHS files did not indicate active or abandoned domestic water-supply wells within ¼ mile of the area formerly occupied by the USTs. The ground surface in the area formerly occupied by the USTs is paved with asphalt. The ground surface slopes slightly towards the east. Three USTs were formerly located in front of the airport manager's office (Figure 2). Two 10,000-gallon, partially aboveground storage tanks (ASTs) for aviation gasoline are currently located approximately 100 yards north of the area formerly occupied by the USTs.

Site History
• September 1991 UST Removal - Petro Tech of Santa Rosa, California, excavated and removed one 10,000-gallon UST for jet fuel and two 10,000-gallon USTs for aviation gasoline from a common excavation. The three USTs were reportedly in good condition at the time of their removal; however, pitting and holes were observed in the jet fuel product lines, and holes were observed in one of the fuel tanks after its protective tar coating was removed. The results of the analyses of soil and groundwater samples from the UST excavation are summarized on Table 1 in Appendix A.

• May and July 1995 Subsurface Investigations - Artesian Environmental Consultants (Artesian) advanced nine soil borings to a maximum depth of 8 ft in the area formerly occupied by the USTs. Elevated concentrations of heavier range hydrocarbons (diesel to oil) were reportedly detected within the fill material emplaced during construction of the airport. Additionally, gasoline/jet fuel range and associated aromatic hydrocarbons were detected in samples of near-surface soils and groundwater, primarily to the south and east of the southern-most former UST. The results of the analyses of soil and groundwater samples from the borings are summarized on Tables 2 through 5 in Appendix A.

• GPI Environmental Management’s October 31, 1995, Site Summary Documentation/Request for Case Closure report submitted to the SFBRWQCB, recommending that the site be closed as a low risk groundwater site.

• June 1999 Storm Drain Cleanup - EC&A personnel conducted an investigation and cleanup at the site when a sheen and unusual solvent-like odor were observed in the area of a collapsed section of storm drain on the east side of the southern-most hanger. The results of the analysis of soil and water samples from the investigation are summarized on EC&A Table 1 in Appendix A.
A. Complete details of the investigation are in EC&A’s September 24, 1999, *Report Cleanup of Storm Drain Site.*

- Letter dated June 26, 2009, from the SFBRWQCB requiring the submittal of a workplan to assess the extent of soil and groundwater impacted by FHCs and the performance of an SRS.

**GEOLOGIC/HYDROLOGIC CONDITIONS**

**Site Geologic Conditions**
Based on published geologic maps, the site is underlain by recent intertidal deposits of Bay mud interstratified with silty clay river alluvial deposits. Subsurface stratigraphic data logged by Artesian indicates that the upper 1½ ft to 4 ft consists of artificially emplaced light to dark brown gravel with subordinate sand and silt. The artificial fill material was noted to be unconsolidated and semi-pervious. This material overlies intertidal deposits of recent Bay deposits consisting of mottled dark gray, highly plastic, dense and organic rich silty clay containing reeds and other organic matter to a known dept of 12 ft below ground surface (bgs). The clay contains occasional localized channels (3 to 6 inches wide by several inches in thickness) of highly organic peat (decomposed plant material)/shell fragments and sandy clay.

**Site Hydrologic Conditions**
The site lies approximately at mean sea level (MSL) next to a topographic high toward the west across from Highway 101. The local topography slopes slightly to the east towards the Petaluma River, 7000 ft to the northeast of the site. Near-surface groundwater flow direction, based on topography, is to the east with a very low gradient. Site groundwater flow direction is problematic due to the proximity to the estuary channel and discontinuous nature of water-bearing subsurface zones. At high tide, the expected groundwater flow direction would be generally west, away from the estuary channel, and generally east toward the estuary during low tide. Due to varying static groundwater levels observed in the previously drilled soil borings, a predominate groundwater flow direction cannot be accurately determined for this site.

Depth to first encountered groundwater during Artesian's previous subsurface investigation was at 8 ft bgs in the area formerly occupied by the USTs and at between 4.5 ft and 6 ft bgs at the active AST complex. Static groundwater levels were measured at between 0.5 ft and 3.74 ft bgs upon completion of soil boring drilling. It is suspected, based on the variable depth to near-surface groundwater, that the occurrence of near-surface groundwater is stratigraphically controlled. Near-surface groundwater movement within an intertidal depositional environment is primarily restricted to relatively semi-permeable organic rich and/or sandy lenticular soil zones/channels at differing elevations. These near-surface groundwater bearing zones/channels have been documented at other sites (with predominately intertidal Bay muds) to be not laterally nor vertically continuous. The variability in groundwater elevations is due to the previous soil borings intersecting different semi-permeable water bearing zones at differing elevations.
Based on boring log data obtained by Artesian, the predicted permeability rate for soils underlying the site and adjacent to the former USTs is on the order of 0.001 to 0.01 ft/year or 0.003 to 0.3 ft in 30 years since UST installation. This is based on known permeability constants ($10^{-8}$ to $10^{-10}$ cm/sec or 0.0001 to 0.01 ft/year) for the Bay muds which behave like fat clays. Thus the ability of hydrocarbons to migrate away from the former UST location is severely restricted. These permeability rates are consistent with the documented lateral extent of hydrocarbon contamination from other former storage tank sites within similar soil lithologies.

**PROPOSED SOIL AND GROUNDWATER INVESTIGATION**

The purpose of the proposed soil and groundwater investigation is to assess the lateral and vertical extent of soil and groundwater impacted by FHCs in the area formerly occupied by three USTs. EC&A personnel will advance 10 exploratory borings and collect soil and groundwater samples from the borings for chemical analyses. The exploratory borings will be advanced around the perimeter of the former UST excavation approximately 10 feet beyond the soil borings that were drilled in 1995. Analytical data from the proposed exploratory borings will be used to evaluate whether FHC concentrations have declined since 1995 and the extent to which FHCs have migrated in soil and groundwater. The work will be accomplished by the following tasks.

**Task 1 - Permit Acquisition, Utility Location and Project Management**

EC&A will prepare and submit a soil boring permit application to the MCEHS. Prior to drilling activities, underground utilities will be located and marked by either the client or a private locator service. Additionally, the proposed boring locations will be marked in white paint, and Underground Service Alert (USA) will be notified at least 48 hours prior to field work, to clear these locations, as required by law. The SFBRWQCB will also be notified 48 hours prior to field work.

**Task 2 - Soil Borings**

EC&A proposes to advance 10 exploratory soil borings (B-14 through B-23) to depths of approximately 8 ft bgs. The locations of the proposed borings are shown on Figure 3. The proposed borings may be advanced deeper for vertical delineation, and/or additional step-out borings may be advanced for further lateral delineation, based on field observations, and field screening of the soil and observation of groundwater conditions encountered. The exploratory soil borings will be advanced using a truck-mounted drill rig equipped with 4-inch-diameter, solid-stem augers.

Soil boring advancement will be performed under the technical direction of an EC&A field geologist who will classify the soils encountered, maintain a continuous log of the lithology, and assist in collecting samples of soil and groundwater. The field work will be performed under the supervision of a California-registered geologist. EC&A personnel will field screen the breathing zone and soil samples for organic vapors with a photo-ionization detector (PID).
Soil Sample Collection Procedures
Soil samples will be collected from the exploratory soil borings at approximate depths of 4 ft bgs and 8 ft bgs, and/or based on field indications (odor, staining, etc.), PID readings and the results of past site investigations. The soil samples will be collected using a split-spoon sampling apparatus containing 2-inch-diameter by 6-inch-long brass or stainless steel liners. When a boring is advanced to the selected sampling depth, the sampler will be lowered into the bottom of the hole and driven approximately 18 inches into soil ahead of the auger with a 140-pound, drill-rig-operated hammer. Foil or Teflon® squares will be placed over each end of the tube and the ends will be sealed with plastic end caps. The soil samples will be labeled, placed on ice, and transported under chain of custody control to a State-licensed laboratory for the required analyses. EC&A anticipates that two soil samples per exploratory soil boring will be submitted for laboratory analyses.

Grab-groundwater Sample Collection Procedures
A groundwater sample will be collected from each soil boring in clean, new disposable bailers lowered directly into the borings. If groundwater is slow to enter a boring, or if the stability of a boring is questionable, temporary well screen maybe placed in the boring without sandpack to facilitate sample collection. The groundwater will be transferred from the bailers to properly labeled, laboratory-supplied, sterile sample containers. The samples will be labeled, placed on ice and transported under chain of custody control to a State-licensed laboratory for the required analyses.

Equipment Cleaning Procedures
In order to minimize the possibility of cross contamination, the down-hole drilling and sampling equipment will be cleaned prior to use. Soil- and water-sampling equipment will be washed in a low-phosphorous, soap-and-water solution and double rinsed with tap water before samples are collected.

Waste Storage
Soil from the borings and water from equipment decontamination will be placed in properly labeled DOT 17H 55-gallon drums that will be sealed and temporarily stored onsite. Waste disposal will be based on the results of analyses of samples from the borings. Disposal documentation will be provided to the SFRBRWQCB.

Task 3 - Sample Analyses
Soil and groundwater samples will be analyzed for total petroleum hydrocarbons (TPH) as gasoline (g), TPH as diesel (d), TPH as kerosene (k), TPH as motor oil (mo), TPH as bunker oil (bo), TPH as jet fuel (jf), TPH as aviation gas (av gas) and benzene, toluene, ethylbenzene and xylenes (BTEX) by Analytical Methods SW8015Bm/8015B/8021B. Soil samples will also be analyzed for methyl tert-butyl ether (MTBE) by Method 8021B, and grab-groundwater samples will also be analyzed for MTBE and other fuel oxygenates and lead scavengers 1,2-dichloroethane (1,2-DCA) and 1,2-dibromoethane (EDB) by Method SW8260B.
Task 4 - Report Preparation
Following completion of the boring advancement, receipt of the soil and groundwater analytical results, and conclusion of the SRS, EC&A will prepare a written report presenting boring logs, the results of the soil and groundwater sample analyses, the results of the SRS, and conclusions regarding site conditions. The report will include isoconcentration maps for petroleum hydrocarbons of concern. An updated site map, boring logs, the results of the sample analyses, and a GeoReport will be electronically submitted to GeoTracker.

SITE SAFETY PLAN

All field activities will be conducted in accordance with the Site Safety Plan in Appendix C. The SSP identifies the chemicals that may be encountered during the investigations, describes precautionary measures to be taken when in the presence of these chemicals, and contains a map to the nearest medical facility.

Thank you for allowing EC&A to provide environmental services for you. Please contact John Calomiris, Project Manager, if you have any questions or concerns.

Sincerely,

John Calomiris
Technical Operations Manager

Richard Ely, PG #4137
Senior Geologist

Attachments:
Figure 1 - Site Location Map
Figure 2 - Site Map
Figure 3 - Soil Boring Location Map with Proposed Soil Borings
Figure 4 - TPH Concentrations in Groundwater
Figure 5 - Isoconcentration Contour Map of Benzene in Groundwater

Appendix A - Analytical Results from Previous Site Investigations
Appendix B - Soil Boring Logs
Appendix C - Site Safety Plan

cc: Michael Frost, Marin County Office of Waste Management
Armando Alegria, Marin County Environmental Health Services
John Jang, San Francisco Bay Regional Water Quality Control Board

Site Location Map
Marin County Airport/Gnoss Field
451 Airport Road
Novato, CA. 94948

PLATE

1
SOIL BORING LOCATION MAP
with Proposed Soil Borings
Marin County Airport/Gross Field
451 Airport Road
Novato, CA 94948

Source: GPI Environmental Management
Plate 4 Site Plan - Former UST Location

Proposed Soil Boring Location

Boring Location
by Artesian Environmental (1995)
Source: GPI Environmental Management
Plate 4 Site Plan - Former UST Location

LEGEND

- Boring Location by Artesian Environmental (1995)
  
  G = Gasoline
  JF = Jet Fuel
  D = Diesel
  B = Bunker C Fuel Oil

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

TPH CONCENTRATIONS IN GROUNDWATER
Marin County Airport/Gnoss Field
451 Airport Road
Novato, CA 94948

FIGURE 4

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

TPH CONCENTRATIONS IN GROUNDWATER
Marin County Airport/Gnoss Field
451 Airport Road
Novato, CA 94948

FIGURE 4

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

TPH CONCENTRATIONS IN GROUNDWATER
Marin County Airport/Gnoss Field
451 Airport Road
Novato, CA 94948

FIGURE 4

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

TPH CONCENTRATIONS IN GROUNDWATER
Marin County Airport/Gnoss Field
451 Airport Road
Novato, CA 94948

FIGURE 4
Source: GPI Environmental Management
Plate 4 Site Plan - Former UST Location

LEGEND

- Boring Location by Artesian Environmental (1995)
- [51] Concentration of Benzene in Groundwater (μg/l)
- ND Not Detected above Reporting Limit of 0.5 μg/l
- 50 Line of Equal Concentration

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

Marin County Airport/Gross Field
451 Airport Road
Novato, CA 94948

ISOCONCENTRATION CONTOUR OF BENZENE IN GROUNDWATER

FIGURE 5
Appendix A

Analytical Results From Previous Site Investigations
## Table 1
### Summary of Initial Soil/Groundwater Laboratory Results (Tank Removal)
Marin County Airport/Gnoss Field, Novato, California (9/19/91)

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Depth (ft)</th>
<th>TPH (G)</th>
<th>TPH (D)</th>
<th>TPH (JF)</th>
<th>TPH (K)</th>
<th>TPH (M)</th>
<th>Benzene</th>
<th>Toluene</th>
<th>Styrene</th>
<th>Benzene</th>
<th>Xylene</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>5.0'</td>
<td>1.3</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>67</td>
<td>25</td>
<td>11</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>6.0'</td>
<td>1.8</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>150</td>
<td>16</td>
<td>51</td>
<td>97</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>7.0'</td>
<td>ND</td>
<td>15 (DH)</td>
<td>—</td>
<td>—</td>
<td>8.5</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>7.9'</td>
<td>ND</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>17</td>
<td>16</td>
<td>ND</td>
<td>ND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>7.0'</td>
<td>ND</td>
<td>34 (DH)</td>
<td>—</td>
<td>—</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Near-Surface Groundwater Sample Results

<table>
<thead>
<tr>
<th>Sample</th>
<th>TPH (G)</th>
<th>TPH (D)</th>
<th>TPH (JF)</th>
<th>TPH (K)</th>
<th>TPH (M)</th>
<th>Benzene</th>
<th>Toluene</th>
<th>Styrene</th>
</tr>
</thead>
<tbody>
<tr>
<td>1W</td>
<td>7.9</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>130</td>
<td>150</td>
<td>ND</td>
</tr>
<tr>
<td>2W</td>
<td>—</td>
<td>5.9 (DH)</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

---

**Note:**
- **ND** = NOT DETECTED
- **ppm** = parts per million
- **ppb** = parts per billion
- **MDL** = Analytical Method Detection Limit
- **D+** = Chromatograph indicates diesel range and lighter hydrocarbon.
- **DH** = Chromatograph indicates hydrocarbon heavier than diesel.
### Table 1. Analytical Laboratory Results for Groundwater Samples
Project No. 1649, Marin Co. Airport/Gnoss Field, Novato, California

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Sample Date</th>
<th>TPH as Bunker C Fuel mg/L</th>
<th>TPH as Diesel Kerosene mg/L</th>
<th>TPH as Motor Oil mg/L</th>
<th>TPH as Gasoline mg/L</th>
<th>TPH as Jet Fuel mg/L</th>
<th>Benzene µg/L</th>
<th>Toluene µg/L</th>
<th>Ethylbenzene µg/L</th>
<th>Total Xylenes µg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-1 AQ</td>
<td>6/1/95</td>
<td>2.6 (0.5)</td>
<td>ND (0.05)</td>
<td>ND (0.05)</td>
<td>ND (0.05)</td>
<td>4.2 (0.5)</td>
<td>ND (0.5)</td>
<td>ND (0.5)</td>
<td>ND (0.5)</td>
<td>ND (0.5)</td>
</tr>
<tr>
<td>B-2 AQ</td>
<td>6/1/95</td>
<td>0.69 (0.5)</td>
<td>ND (0.05)</td>
<td>ND (0.05)</td>
<td>ND (0.05)</td>
<td>ND (0.05)</td>
<td>ND (0.5)</td>
<td>ND (0.5)</td>
<td>ND (0.5)</td>
<td>ND (0.5)</td>
</tr>
<tr>
<td>B-3 AQ</td>
<td>6/1/95</td>
<td>NA</td>
<td>ND (0.5)</td>
<td>ND (2.5)</td>
<td>24 (2.5)</td>
<td>51 (25.0)</td>
<td>48 (25.0)</td>
<td>ND (25.0)</td>
<td>ND (25.0)</td>
<td>ND (25.0)</td>
</tr>
<tr>
<td>B-4 AQ</td>
<td>6/1/95</td>
<td>1.4 (0.5)</td>
<td>ND (0.05)</td>
<td>ND (1.0)</td>
<td>ND (0.05)</td>
<td>2 (0.5)</td>
<td>ND (0.5)</td>
<td>ND (0.5)</td>
<td>ND (0.5)</td>
<td>ND (0.5)</td>
</tr>
</tbody>
</table>

**NOTES**

(1.0) = laboratory reporting limit
TPH = Total Petroleum Hydrocarbons
mg/L = milligrams per liter; equivalent to parts per million (ppm)
µg/L = micrograms per liter; equivalent to parts per billion (ppb)
ND = Not detected at indicated laboratory reporting limits
NA = Not analyzed
'Soil sample B-3 3-4' was analyzed for TPH as Jet Fuel by both EPA Methods 5030/M8015 and M8015.
See laboratory reports for analytical methods.
Table 1. Analytical Laboratory Results for Groundwater Samples
Project No. 1663, Marin Co. Airport/Gnoss Field, Novato, California

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Sample Date</th>
<th>TPH as Bunker C Fuel mg/L</th>
<th>TPH as Diesel Fuel mg/L</th>
<th>TPH as Kerosene mg/L</th>
<th>TPH as Motor Oil mg/L</th>
<th>TPH as Gasoline mg/L</th>
<th>TPH as Jet Fuel mg/L</th>
<th>Benzene µg/L</th>
<th>Toluene µg/L</th>
<th>Ethylbenzene µg/L</th>
<th>Total Xylenes µg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-5 AQ</td>
<td>7/6/95</td>
<td>2.4</td>
<td>&lt;0.05</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>B-6 AQ</td>
<td>7/6/95</td>
<td>2.9</td>
<td>1.1 (DL)</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>0.81 (GL)</td>
<td>&lt;0.05</td>
<td>27</td>
<td>49</td>
<td>2.4</td>
<td>5.7</td>
</tr>
<tr>
<td>B-7 AQ</td>
<td>7/6/95</td>
<td>3.6</td>
<td>&lt;0.05</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>0.07 (GL)</td>
<td>&lt;0.05/2.4*</td>
<td>&lt;0.5</td>
<td>1.8</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>B-8 AQ</td>
<td>7/6/95</td>
<td>3.7</td>
<td>&lt;0.05</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>B-9 AQ</td>
<td>7/6/95</td>
<td>4.0</td>
<td>&lt;0.05</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>B-10 AQ</td>
<td>7/6/95</td>
<td>1.5</td>
<td>&lt;0.05</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>0.15 (GL)</td>
<td>&lt;0.05</td>
<td>12</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>B-11 AQ</td>
<td>7/6/95</td>
<td>2.0</td>
<td>&lt;0.05</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>0.11 (GL)</td>
<td>&lt;0.05</td>
<td>3</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>B-12 AQ</td>
<td>7/6/95</td>
<td>1.3</td>
<td>0.67 (DL)</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>0.42 (GL)</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>11</td>
</tr>
<tr>
<td>B-13 AQ</td>
<td>7/6/95</td>
<td>1.3</td>
<td>0.21 (DL)</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>0.09 (GL)</td>
<td>&lt;0.05</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
<td>&lt;0.5</td>
</tr>
</tbody>
</table>

NOTES

TPH = Total Petroleum Hydrocarbons
mg/L = milligrams per liter; equivalent to parts per million (ppm)
µg/L = micrograms per liter; equivalent to parts per billion (ppb)
< 0.05 - Analyte concentration below indicated laboratory reporting limit.
DL = Positive result appears to be lighter hydrocarbon than diesel.
GL = Positive result appears to be lighter hydrocarbon than gasoline.
*Soil sample B-7 AQ was analyzed for TPH as Jet Fuel by both EPA Methods 5030 and M8015.
See laboratory reports for analytical methods.
# Table 2. Analytical Laboratory Results for Soil Samples

**Project No. 1649, Marin Co. Airport/Gnoss Field, Novato, California**

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Sample Date</th>
<th>TPH as Bunker C Fuel mg/kg</th>
<th>TPH as Diesel mg/kg</th>
<th>TPH as Kerosene mg/kg</th>
<th>TPH as Motor Oil mg/kg</th>
<th>TPH as Gasoline mg/kg</th>
<th>TPH as Jet Fuel mg/kg</th>
<th>Benzene µg/kg</th>
<th>Toluene µg/kg</th>
<th>Ethylbenzene µg/kg</th>
<th>Total Xylenes µg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-1 3-4'</td>
<td>5/31/95</td>
<td>ND(1.0)</td>
<td>13(1.0)</td>
<td>ND(1.0)</td>
<td>ND(10.0)</td>
<td>ND(1.0)</td>
<td>ND(10.0)</td>
<td>ND(2.5)</td>
<td>ND(2.5)</td>
<td>ND(2.5)</td>
<td>ND(2.5)</td>
</tr>
<tr>
<td>B-2 3-4'</td>
<td>5/31/95</td>
<td>51(10.0)</td>
<td>ND(1.0)</td>
<td>ND(1.0)</td>
<td>ND(10.0)</td>
<td>ND(1.0)</td>
<td>ND(10.0)</td>
<td>ND(2.5)</td>
<td>ND(2.5)</td>
<td>ND(2.5)</td>
<td>ND(2.5)</td>
</tr>
<tr>
<td>B-3 3-4'</td>
<td>5/31/95</td>
<td>38(10.0)</td>
<td>ND(1.0)</td>
<td>ND(1.0)</td>
<td>ND(10.0)</td>
<td>ND(1.0)</td>
<td>10/12(10.0)*</td>
<td>ND(2.5)</td>
<td>8.6(2.5)</td>
<td>3.9(2.5)</td>
<td>25(2.5)</td>
</tr>
<tr>
<td>B-4 3-4'</td>
<td>5/31/95</td>
<td>ND(10.0)</td>
<td>22(1.0)</td>
<td>ND(1.0)</td>
<td>ND(10.0)</td>
<td>ND(1.0)</td>
<td>ND(10.0)</td>
<td>ND(2.5)</td>
<td>ND(2.5)</td>
<td>ND(2.5)</td>
<td>ND(2.5)</td>
</tr>
</tbody>
</table>

**NOTES**

(1.0) = laboratory reporting limit
TPH = Total Petroleum Hydrocarbons
mg/kg = milligrams per kilogram; equivalent to parts per million (ppm)
µg/kg = micrograms per liter; equivalent to parts per billion (ppb)
ND = Not detected at indicated laboratory reporting limits
NA = Not analyzed

* Soil sample B-3 3-4' was analyzed for TPH as Jet Fuel by both EPA Methods 5030/M8015 and M8015. See laboratory reports for analytical methods.
Table 2. Analytical Laboratory Results for Soil Samples
Project No. 1649, Marin Co. Airport/Gnoss Field, Novato, California

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Sample Date</th>
<th>TPH as Bunker C Fuel mg/kg</th>
<th>TPH as Diesel mg/kg</th>
<th>TPH as Kerosene mg/kg</th>
<th>TPH as Motor Oil mg/kg</th>
<th>TPH as Gasoline mg/kg</th>
<th>TPH as Jet Fuel mg/kg</th>
<th>Benzene μg/kg</th>
<th>Toluene μg/kg</th>
<th>Ethylbenzene μg/kg</th>
<th>Total Xylenes μg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-5 2'</td>
<td>7/5/95</td>
<td>&lt;10.0</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td>33</td>
<td>&lt;10.0</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
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<tr>
<td>B-5 4'</td>
<td>7/5/95</td>
<td>&lt;10.0</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td>36</td>
<td>&lt;10.0</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
</tr>
<tr>
<td>B-5 6'</td>
<td>7/5/95</td>
<td>&lt;10.0</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td>20</td>
<td>&lt;10.0</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
</tr>
<tr>
<td>B-6 2'</td>
<td>7/5/95</td>
<td>&lt;100.0</td>
<td>91 (DL)</td>
<td>&lt;10.0</td>
<td>11 (GH)</td>
<td>&lt;10.0</td>
<td>2.5</td>
<td>9.3</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>B-6 4'</td>
<td>7/5/95</td>
<td>&lt;100.0</td>
<td>51 (DL)</td>
<td>&lt;10.0</td>
<td>10 (DL)</td>
<td>&lt;10.0</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>B-7 2'</td>
<td>7/5/95</td>
<td>&lt;10.0</td>
<td>21 (DL)</td>
<td>&lt;1.0</td>
<td>22 (GH)</td>
<td>&lt;10.0</td>
<td>2.5</td>
<td>9.3</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
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<tr>
<td>B-7 3'</td>
<td>7/5/95</td>
<td>&lt;10.0</td>
<td>4.4 (DL)</td>
<td>&lt;1.0</td>
<td>14 (GH)</td>
<td>&lt;10.0</td>
<td>2.5</td>
<td>7.2</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>B-8 2'</td>
<td>7/5/95</td>
<td>&lt;10.0</td>
<td>11 (DH)</td>
<td>&lt;1.0</td>
<td>68 (DH)</td>
<td>&lt;10.0</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>B-8 4'</td>
<td>7/5/95</td>
<td>24</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td>&lt;10.0</td>
<td>&lt;2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>B-8 6'</td>
<td>7/5/95</td>
<td>52</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td>&lt;10.0</td>
<td>&lt;2.5</td>
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<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
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<tr>
<td>B-9 1'</td>
<td>7/5/95</td>
<td>&lt;50.0</td>
<td>&lt;50.0</td>
<td>&lt;50.0</td>
<td>1300</td>
<td>&lt;10.0</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
<td>&lt;2.5</td>
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<tr>
<td>B-9 2'</td>
<td>7/5/95</td>
<td>23</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td>&lt;10.0</td>
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<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>B-9 3'</td>
<td>7/5/95</td>
<td>&lt;10.0</td>
<td>&lt;1.0</td>
<td>&lt;1.0</td>
<td>&lt;10.0</td>
<td>&lt;2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>B-10 4'</td>
<td>7/5/95</td>
<td>&lt;10.0</td>
<td>2.2</td>
<td>&lt;1.0</td>
<td>&lt;10.0</td>
<td>&lt;2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>B-11 4'</td>
<td>7/5/95</td>
<td>&lt;10.0</td>
<td>1.8</td>
<td>&lt;1.0</td>
<td>&lt;10.0</td>
<td>&lt;2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>B-12 4'</td>
<td>7/5/95</td>
<td>&lt;10.0</td>
<td>2.5</td>
<td>&lt;1.0</td>
<td>&lt;10.0</td>
<td>&lt;2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>B-13 4'</td>
<td>7/5/95</td>
<td>&lt;10.0</td>
<td>1.6</td>
<td>&lt;1.0</td>
<td>&lt;10.0</td>
<td>&lt;2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
</tbody>
</table>

<10.0 - Analyte concentration below indicated laboratory reporting limit.

TPH = Total Petroleum Hydrocarbons

mg/kg = milligrams per kilogram, equivalent to parts per million (ppm)
μg/kg = micrograms per kilogram; equivalent to parts per billion (ppb)

See laboratory reports for analytical methods.
Appendix B

Soil Boring Logs
## LOG DETAILS: BORING B-1

| SITE LOCATION: 351 Airport Road | SITE NAME: Gnoss Field |
| CITY, STATE: Novato, California | CLIENT: Marin County |
| ARTESIAN JOB NO.: 1649 | PROJECT MANAGER: J. French |

### LOGGED DETAILS:

- **Log Details:** BORING B-1
- **Site Name:** Gnoss Field
- **Site Location:** 351 Airport Road
- **City, State:** Novato, California
- **Client:** Marin County
- **Artesian Job No.:** 1649
- **Project Manager:** J. French

#### Dates Drilled:
- 03-31-95

#### Date Completed:
- 06-1-95

#### Drilled Co.:
- Ancilair

#### Driller:
- J. Taylor

#### Logged By:
- J. French

#### Sampling Method:
- Probe Drive

#### Rig Type:
- Direct Path

#### Drill Tools:
- Geoprobe

#### Hammer WT.:
- NA

#### Drop (in.):
- NA

#### Rig Details:
- **Boring Dia. (in.):** 2.0
- **Total Depth:** 8.0 ft. bgs

#### CASING TYPE / SIZE:
- NA

#### CASING TYPE / SIZE:
- NA

#### SLOT INTER.:
- NA

#### SAND INTER.:
- NA

#### SAND TYPE:
- NA

#### FIRST WATER:
- 8.0 ft. bgs

#### FIRST WATER:
- 8.0 ft. bgs

#### BAGS BENTON.: NA

#### BAGS GROUT:
- 0.25

#### GROUT PLACEMENT:
- Tensile

#### Grout Inter.:
- 0-8 ft. bgs

#### Well Dev.:
- NA

#### Well Cover:
- NA

### Soil Symbols/Field Test Data

<table>
<thead>
<tr>
<th>Depth</th>
<th>Soil Symbols/Field Test Data</th>
<th>Soil Description</th>
<th>Samp. #</th>
<th>BLOWS /6 in.</th>
<th>PID</th>
<th>Completion Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0-5</td>
<td>ASPHALT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>GM: (Fill Material) Gravel with light and dark brown sand and silt. Slightly damp.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CH: (Bay Mud) Dark gray silty clay containing reeds and other organic material. Moisture increasing with depth. First water encountered at 8 feet bgs on 5/31/95. Static water measured at 2.2 feet bgs on 6/1/95.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Boring terminated at 8.0 ft. bgs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Artesian Environmental

3100 Kerner Blvd., Suite C, San Rafael, CA 94901
Tel: (800) 999-4800; Fax: (415) 257-4805

**Drawn By:** IF
**Draw Date:** 06-1-95

---

Notes:
- See U.S.C.S. Key for explanation of Symbols.

---

**Descriptive Diagram:**
- B-1 3-4'
- B-1 7-8'
- B-1 7-8'

---

Backfilled to 0.4 ft. bgs. Remainder 17% Covered Gravel.
### LOG DETAILS: BORING B-2

**PROJECT:** Gnoss Field

**SITE LOCATION:** 351 Airport Road  
**SITE NAME:** Gnoss Field  
**CITY, STATE:** Novato, California  
**CLIENT:** Marin County  
**ARTESIAN JOB NO.:** 1649  
**PROJECT MANAGER:** J. French

<table>
<thead>
<tr>
<th><strong>DATES DRILLED:</strong></th>
<th>05-31-95</th>
<th><strong>RIG TYPE:</strong></th>
<th>Direct Push</th>
<th><strong>BORING DIA (in.):</strong></th>
<th>2.0</th>
<th><strong>TOTAL DEPTH:</strong></th>
<th>8.0 ft. bgs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DATE COMPLETED:</strong></td>
<td>06-1-95</td>
<td><strong>DRILL TOOLS:</strong></td>
<td>Geoprobe</td>
<td><strong>CASING TYPE / SIZE:</strong></td>
<td>NA</td>
<td><strong>BAGS SAND:</strong></td>
<td>NA</td>
</tr>
<tr>
<td><strong>LOGGED BY:</strong></td>
<td>J. French</td>
<td><strong>SAMPLING METH.:</strong></td>
<td>Probe Drive</td>
<td><strong>SLOT INTER.:</strong></td>
<td>NA</td>
<td><strong>SAND INTER.:</strong></td>
<td>NA</td>
</tr>
<tr>
<td><strong>DRILLING CO.:</strong></td>
<td>American</td>
<td><strong>HAMMER WT.:</strong></td>
<td>NA</td>
<td><strong>SAND TYPE:</strong></td>
<td>NA</td>
<td><strong>BAGS BENTON.:</strong></td>
<td>NA</td>
</tr>
<tr>
<td><strong>DRILLER:</strong></td>
<td>J. Taylor</td>
<td><strong>DROP (in.):</strong></td>
<td>NA</td>
<td><strong>FIRST WATER:</strong></td>
<td>8.0 ft. bgs</td>
<td><strong>BAGS GROUT:</strong></td>
<td>0.25</td>
</tr>
<tr>
<td><strong>INSPECTOR:</strong></td>
<td>Tim Underwood, Marin Co.</td>
<td><strong>WELL DEV.:</strong></td>
<td>NA</td>
<td><strong>STATIC WATER:</strong></td>
<td>2.45 ft. bgs</td>
<td><strong>WELL COVER:</strong></td>
<td>NA</td>
</tr>
<tr>
<td><strong>MW KEY / CVR ACC.:</strong></td>
<td>NA</td>
<td><strong>WELL COVER:</strong></td>
<td>NA</td>
<td><strong>GROUT PLACEMENT:</strong></td>
<td>Tenite</td>
<td><strong>GROUT INTER.:</strong></td>
<td>0-8 ft. bgs</td>
</tr>
</tbody>
</table>

**NOTES:**  
SEE U.S.C.S. KEY FOR EXPLANATION OF SYMBOLS

---

**FIELD TEST DATA**

**SOIL SYMBOLS/DESCRIPTION**

<table>
<thead>
<tr>
<th><strong>DEPTH</strong></th>
<th><strong>SOIL SYMBOLS/DESCRIPTION</strong></th>
<th><strong>SOIL DESCRIPTION</strong></th>
<th><strong>SAMP. #</strong></th>
<th><strong>BLOWS /6 in.</strong></th>
<th><strong>PID ppm</strong></th>
<th><strong>COMPLETION DIAGRAM</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>ASPHALT</td>
<td>GM: (Fill Material) Gravel with light and dark brown sand and silt. Slightly damp.</td>
<td>B-2 3-4'</td>
<td></td>
<td>0.4</td>
<td></td>
</tr>
<tr>
<td>-5</td>
<td>CH: (Bay Mud) Dark gray silty clay containing reeds and other organic material. Rotten organic odor. Moisture increasing with depth. First water encountered at 8 feet bgs on 5/31/95. Static water measured at 2.45 feet bgs on 6/1/95.</td>
<td>B-2 7-8'</td>
<td></td>
<td>0.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Boring terminated at 8.0 ft. bgs.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**ARTESIAN ENVIRONMENTAL**  
3100 KERNER BLVD., SUITE C • SAN RAFAEL, CA 94901  
TEL (800) 959-4801; FAX (415) 257-4855  
DRAWN BY:  
DRAW DATE: 06-2-95

---

**DIAGRAM**

- Bored to 8 ft. bgs.  
- Borehole Cut

---

Page L-124
### LOG DETAILS: BORING B-3

#### PROJECT: Gnoss Field

<table>
<thead>
<tr>
<th>SITE LOCATION: 351 Airport Road</th>
<th>SITE NAME: Gnoss Field</th>
<th>ARTESIAN JOB NO.: 1649</th>
</tr>
</thead>
<tbody>
<tr>
<td>CITY, STATE: Novato, California</td>
<td>CLIENT: Marin County</td>
<td>PROJECT MANAGER: J. French</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>DATES DRILLED: 05-31-95</th>
<th>TYPE: Direct Push</th>
<th>BORING DIA (in.): 2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE COMPLETED: 06-1-95</td>
<td>DRILL TOOLS: Geoprobe</td>
<td>TOTAL DEPTH: 8.0 ft bgs</td>
</tr>
<tr>
<td>LOGGED BY: J. Peach</td>
<td>SAMPLING METH: Probe Drive</td>
<td>CASING TYPE / SIZE: NA</td>
</tr>
<tr>
<td>DRILLING CO: Artesian</td>
<td>SLOT INTER.: NA</td>
<td>BAGS SAND: NA</td>
</tr>
<tr>
<td>DRILLER: J. Taylor</td>
<td>SAND TYPE: NA</td>
<td>FIRST WATER: 3.0 ft bgs</td>
</tr>
<tr>
<td>INSPECTOR: Tim Underwood, Marin Co.</td>
<td>BAGS BENTON.: NA</td>
<td>BAGS GROUT: 0.25</td>
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<tr>
<td>MW KEY / CVR ACC: NA</td>
<td>WELL DEV.: NA</td>
<td>STATIC WATER: 1.35 ft bgs</td>
</tr>
<tr>
<td></td>
<td>WELL COVER: NA</td>
<td>BAGS GROUT: 0.25</td>
</tr>
</tbody>
</table>

**NOTES:**

SEE U.S.C.S FOR EXPLANATION OF SYMBOLS.

---

#### FIELD TEST DATA

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>SOIL SYMBOLS/DESCRIPTION</th>
<th>SOIL DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>ASPHALT</td>
<td>GM: (Fill Material) Gravel with sand and dark gray silt to 3.5 feet bgs. Gravel with light brown sand and silt from 3.5 to 4.0 feet bgs. First water encountered at 3 feet bgs on 5/31/95. Static water measured at 1.35 feet bgs on 6/1/95.</td>
</tr>
<tr>
<td>-5</td>
<td>B-3 3-4'</td>
<td>Boring terminated at 8.0 feet bgs.</td>
</tr>
</tbody>
</table>

No sample recovery due to sloughing.

---

**ARTESIAN ENVIRONMENTAL**

3100 KERNER BLVD., SUITE C,SAN RAFAEL, CA 94901

TEL: (800) 959-4801; FAX: (415) 257-4955

DRAWN BY JF  DRAW DATE: 06-02-95
**LOG DETAILS: BORING B-4**

**PROJECT:** Gnoss Field  
**SITE LOCATION:** 351 Airport Road  
**SITE NAME:** Gnoss Field  
**CITY, STATE:** Novato, California  
**CLIENT:** Marin County  
**ARTESIAN JOB NO.:** 1649  
**PROJECT MANAGER:** J. French

<table>
<thead>
<tr>
<th>DATES DRILLED:</th>
<th>05-31-95</th>
<th>BORING DIA (in.):</th>
<th>2.0</th>
<th>TOTAL DEPTH:</th>
<th>8.0 ft. bgs</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE COMPLETED:</td>
<td>06-1-95</td>
<td>CASING TYPE / SIZE:</td>
<td>NA</td>
<td>BAGS SAND:</td>
<td>NA</td>
</tr>
<tr>
<td>LOGGED BY:</td>
<td>J. French</td>
<td>SLOT INTER.:</td>
<td>NA</td>
<td>SAND INTER.:</td>
<td>NA</td>
</tr>
<tr>
<td>DRILLING CO.:</td>
<td>Artesian</td>
<td>SAND TYPE:</td>
<td>NA</td>
<td>BAGS BENTON.:</td>
<td>NA</td>
</tr>
<tr>
<td>DRILLER:</td>
<td>J. Taylor</td>
<td>FIRST WATER:</td>
<td>8.0 ft. bgs</td>
<td>BAGS GROUT:</td>
<td>0.25</td>
</tr>
<tr>
<td>INSPECTOR:</td>
<td>Tim Underwood, Marin Co.</td>
<td>STATIC WATER:</td>
<td>2.3 ft. bgs</td>
<td>BAGS GROUT INTER.:</td>
<td>0.4 ft. bgs</td>
</tr>
<tr>
<td>MW KEY / CVR ACC:</td>
<td>NA</td>
<td>CASING TYPE:</td>
<td>NA</td>
<td>BAGS SAND:</td>
<td>NA</td>
</tr>
</tbody>
</table>

**NOTES:**  
SEE U.S.C.S. KEY FOR EXPLANATION OF SYMBOLS.

**SOIL SYMBOLS/FIELD TEST DATA**

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<thead>
<tr>
<th>DEPTH</th>
<th>SOIL DESCRIPTION</th>
<th>BLOWS /6 in.</th>
<th>PID ppm</th>
<th>COMPLETION DIAGRAM</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>ASPHALT</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **GM:** (Fill Material) Gravel with dark brown sand and silt. Light brown sand and silt from 3 to 4 feet bgs.

<table>
<thead>
<tr>
<th>SAMP. #</th>
<th>0.5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>B-4 3-4'</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>0</th>
<th>CH: (Bay Mud) Dark gray silty clay containing reeds and other organic material. Moisture increasing with depth. First water encountered at 8 feet bgs on 5/31/95. Static water measured at 2.3 feet bgs on 6/1/95.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.6</td>
<td><strong>B-4 7-8'</strong></td>
</tr>
</tbody>
</table>

ARTESSAN ENVIRONMENTAL  
3100 KERNER BLVD., SUITE C • SAN RAFAEL, CA 94901  
TEL (800) 959-4801; FAX (415) 257-4405  
DRAWN BY: JF  
DRAW DATE: 06-1-95
**LOG DETAILS: BORING B-5**

**PROJECT:** Gnoss Field

**SITE LOCATION:** 351 Airport Road  
**SITE NAME:** Gnoss Field  
**CITY, STATE:** Novato, California  
**CLIENT:** Marin County  
**PROJECT MANAGER:** J. French

<table>
<thead>
<tr>
<th>LOG DETAILS</th>
<th>BORING B-5</th>
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</thead>
<tbody>
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<td>SITE LOCATION</td>
<td>351 Airport Road</td>
</tr>
<tr>
<td>SITE NAME</td>
<td>Gnoss Field</td>
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<tr>
<td>CITY, STATE</td>
<td>Novato, California</td>
</tr>
<tr>
<td>CLIENT</td>
<td>Marin County</td>
</tr>
<tr>
<td>ARTESIAN JOB NO.</td>
<td>1663</td>
</tr>
<tr>
<td>PROJECT MANAGER</td>
<td>J. French</td>
</tr>
</tbody>
</table>

| DATES DRILLED | 07-05-95 |
| DATE COMPLETED | 07-06-95 |
| LOGGED BY | J. French |
| DRILLING CO. | Artesian |
| DRILLER | J. Taylor |
| INSPECTOR | Tim Underwood, Marin Co. |
| MW KEY/CVR ACC | NA |
| RIG TYPE | Direct Push |
| DRILL TOOLS | Geoprobe |
| SAMPLING METHOD | Probe Drive |
| HAMMER WT. | NA |
| DROP (in.) | NA |
| WELL DEV. | NA |
| WELL COVER | NA |
| REPORTED DEPTH | 8.0 ft bgs |
| CASING TYPE/SIZE | NA |
| SLOT INTER. | NA |
| SAND TYPE | NA |
| FIRST WATER | 8.0 ft bgs |
| STATIC WATER | 1.5 ft bgs |
| GROUT PLACEMENT | Gravity |
| GROUT INTER. | 0.25 |

**SOIL SYMBOLS/FIELD TEST DATA**

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>SOIL SYMBOLS/FIELD TEST DATA</th>
<th>SOIL DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>ASPHALT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GM: (Fill Material) Gravel with light and dark brown sand and silt. Slightly damp.</td>
</tr>
<tr>
<td>-5</td>
<td></td>
<td>CH: (Bay Mud) Dark gray silty clay containing reeds and other organic material. Moisture increasing with depth. First water encountered at 8 feet bgs on 7/05/95. Static water measured at 1.5 feet bgs on 7/6/95.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BLOW</th>
<th>PID</th>
<th>COMPLETION DIAGRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-5 2'</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>B-5 3'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-5 4'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-5 5'</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>B-5 6'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**  
SEE U.S.C.S. KEY FOR EXPLANATION OF SYMBOLS.

**ARTESIAN ENVIRONMENTAL**  
3000 KERNER BLVD., SUITE C, SAN RAFAEL, CA 94901  
TEL (800) 959-4801: FAX (415) 257-4805

**DRAWN BY:** IF  
**DRAW DATE:** 04-01-95
### LOG DETAILS: BORING B-6

**PROJECT:** Gnoss Field

**SITE NAME:** Gnoss Field  
**SITE LOCATION:** 351 Airport Road  
**CITY, STATE:** Novato, California  
**ARTESIAN JOB NO.:** 1663  
**CLIENT:** Marin County  
**PROJECT MANAGER:** J. French

<table>
<thead>
<tr>
<th>DATES DRILLED:</th>
<th>07-05-95</th>
<th>RIG TYPE:</th>
<th>Direct Push</th>
<th>BORING DIA (in.):</th>
<th>2.0</th>
<th>TOTAL DEPTH:</th>
<th>8.0 ft bgs</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE COMPLETED:</td>
<td>07-06-95</td>
<td>DRILL TOOLS:</td>
<td>GeoProbe</td>
<td>CASING TYPE / SIZE:</td>
<td>NA</td>
<td>BAGS SAND:</td>
<td>NA</td>
</tr>
<tr>
<td>LOGGED BY:</td>
<td>J. French</td>
<td>SAMPLING METHOD:</td>
<td>Probe Drive</td>
<td>SLOT INTER.</td>
<td>NA</td>
<td>SAND INTER.:</td>
<td>NA</td>
</tr>
<tr>
<td>DRILLING CO.:</td>
<td>Artesian</td>
<td>HAMMER WT.:</td>
<td>NA</td>
<td>SAND TYPE:</td>
<td>NA</td>
<td>BAGS BENTONITE:</td>
<td>NA</td>
</tr>
<tr>
<td>DRILLER:</td>
<td>J. Taylor</td>
<td>DROP (in.):</td>
<td>NA</td>
<td>FIRST WATER:</td>
<td>8.0 ft bgs</td>
<td>BAGS GROUT:</td>
<td>0.25</td>
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<tr>
<td>INSPECTOR:</td>
<td>Tim Underwood, Marin Co.</td>
<td>WELL DEV.:</td>
<td>NA</td>
<td>STATIC WATER:</td>
<td>3.55 ft bgs</td>
<td>GRAOUT INTER.:</td>
<td>0.8 ft bgs</td>
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<tr>
<td>MW KEY / CVR ACC.:</td>
<td>NA</td>
<td>WELL COVER:</td>
<td>NA</td>
<td>GROUT PLACEMENT:</td>
<td>Gravity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**  
SEE U.S.C.S. KEY FOR EXPLANATION OF SYMBOLS

### DEPTH | SOIL SYMBOLS/FIELD TEST DATA | SOIL DESCRIPTION | SAMP. # | BLOWS /6 in. | PID | COMPLETION DIAGRAM | DESCRIPTION
--- | --- | --- | --- | --- | --- | --- | ---
0 | | ASPHALT | | | | | 

GM: (Fill Material) Gravel with light and dark brown sand and silt. Slightly damp.

| | | | | | | |

CH: (Bay Mud) Dark gray silty clay containing reeds and other organic material. Moisture increasing with depth. First water encountered at 8 feet bgs on 7/05/95. Static water measured at 3.55 feet bgs on 7/6/95. Strong hydrogen sulfide odor.

| | | | | | | |

| | | | | | | |

| | | | | | | |

### ARTESIAN ENVIRONMENTAL

3100 KERNER BLVD., SUITE C - SAN RAFAEL CA 94901  
TEL (800) 939-4801; FAX (415) 257-4805  
DRAWN BY IF  
DRAW DATE 08-01-95  
BACKFILLED 0 TO 8 FEET BGS: BENTONITE (3%) CEMENT GROUT.
# LOG DETAILS: BORING B-7

**PROJECT:** Gnoss Field

- **SITE LOCATION:** 351 Airport Road
- **SITE NAME:** Gnoss Field
- **CITY, STATE:** Novato, California
- **CLIENT:** Marin County
- **ARTESIAN JOB NO.:** 1663
- **PROJECT MANAGER:** J. French

### Dates Drilled

<table>
<thead>
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<th>Dates Drilled</th>
<th>07-05-95</th>
</tr>
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### Date Completed

<table>
<thead>
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<th>Date Completed</th>
<th>07-06-95</th>
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### Rig Type

<table>
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<tr>
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<th>Direct Push</th>
</tr>
</thead>
</table>

### Drill Tools

<table>
<thead>
<tr>
<th>Drill Tools</th>
<th>Geoprobe</th>
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### Logging Method

<table>
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<th>Probe Drive</th>
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### Logged By

<table>
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<tr>
<th>Logged By</th>
<th>J. French</th>
</tr>
</thead>
</table>

### Drilling Co.

<table>
<thead>
<tr>
<th>Drilling Co.</th>
<th>Artesian</th>
</tr>
</thead>
</table>

### Driller

<table>
<thead>
<tr>
<th>Driller</th>
<th>J. Taylor</th>
</tr>
</thead>
</table>

### Inspector

<table>
<thead>
<tr>
<th>Inspector</th>
<th>Tim Underwood, Marin Co.</th>
</tr>
</thead>
</table>

### Mw Key / Cvr Acc

<table>
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<th>Mw Key / Cvr Acc</th>
<th>NA</th>
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### Well Dev.

<table>
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<tr>
<th>Well Dev.</th>
<th>NA</th>
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</thead>
</table>

### Well Cover

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### Hammer Wt.

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<th>Hammer Wt.</th>
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</tr>
</thead>
</table>

### Drop (in.)

<table>
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<tr>
<th>Drop (in.)</th>
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</tr>
</thead>
</table>

### Casing Type / Size

<table>
<thead>
<tr>
<th>Casing Type / Size</th>
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### Sand Type

<table>
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### First Water

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<th>First Water</th>
<th>8.0 ft. bgs</th>
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### Static Water

<table>
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<th>Static Water</th>
<th>3 ft. bgs</th>
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### Grout Placement

<table>
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<th>Grout Placement</th>
<th>Gravity</th>
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</table>

### Backfilled 0 to 8 feet BGS: Bentonite (3%) Cement Grout

### Soil Symbols / Field Test Data

<table>
<thead>
<tr>
<th>Depth</th>
<th>Soil Symbols / Field Test Data</th>
<th>Soil Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>ASPHALT</td>
</tr>
<tr>
<td>-5</td>
<td></td>
<td>CH: (Bay Mud)</td>
</tr>
</tbody>
</table>

- **GM:** (Fill Material) Gravel with light and dark brown sand and silt. Slightly damp.
- **CH:** (Bay Mud) Dark gray silt clay containing reeds and other organic material. Moisture increasing with depth. First water encountered at 8 feet bgs on 7/05/95. Static water measured at 3 feet bgs on 7/6/95. Strong hydrogen sulfide odor.

### Sample # B-7 1'

<table>
<thead>
<tr>
<th>B-7 1'</th>
<th>B-7 2'</th>
<th>B-7 3'</th>
<th>B-7 4'</th>
<th>B-7 5'</th>
<th>B-7 6'</th>
<th>B-7 7'</th>
<th>B-7 8'</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>7.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Completion Diagram

- Backfilled 0 to 8 feet BGS: Bentonite (3%) Cement Grout

### Notes

**LOG DETAILS: BORING B-8**  
**PROJECT:** Gnoss Field

**SITE LOCATION:** 351 Airport Road  
**SITE NAME:** Gnoss Field  
**ARTESSIAN JOB NO.:** 1663

**CITY, STATE:** Novato, California  
**CLIENT:** Marin County  
**PROJECT MANAGER:** J. French

<table>
<thead>
<tr>
<th>DATES DRILLED:</th>
<th>07-05-95</th>
<th>BORING DIA (in.):</th>
<th>2.0</th>
<th>TOTAL DEPTH:</th>
<th>8.0 ft. bgs</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE COMPLETED:</td>
<td>07-06-95</td>
<td>CASING TYPE / SIZE:</td>
<td>NA</td>
<td>BAGS SAND:</td>
<td>NA</td>
</tr>
<tr>
<td>LOGGED BY:</td>
<td>J. French</td>
<td>SLOT INTER.:</td>
<td>NA</td>
<td>BAGS INTER.:</td>
<td>NA</td>
</tr>
<tr>
<td>DRILLING CO.:</td>
<td>Artesian</td>
<td>SAND TYPE:</td>
<td>NA</td>
<td>BAGS BENTONITE:</td>
<td>NA</td>
</tr>
<tr>
<td>DRILLER:</td>
<td>J. Taylor</td>
<td>FIRST WATER:</td>
<td>8.0 ft. bgs</td>
<td>BAGS GROUT:</td>
<td>0.25</td>
</tr>
<tr>
<td>INSPECTOR:</td>
<td>Tim Underwood, Marin Co.</td>
<td>STATIC WATER:</td>
<td>3.74 ft. bgs</td>
<td>GROUT PLACEMENT:</td>
<td>Gravity</td>
</tr>
<tr>
<td>MW KEY / CVR ACC:</td>
<td>NA</td>
<td>GROUT INTER.:</td>
<td>0-8 ft. bgs</td>
<td>GROUT INTER.:</td>
<td>NA</td>
</tr>
</tbody>
</table>

**NOTES:**  
**SEE U.S.C.S. KEY FOR EXPLANATION OF SYMBOLS.**

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>SOIL SYMBOLS/ FIELD TEST DATA</th>
<th>SOIL DESCRIPTION</th>
<th>SAMP. #</th>
<th>BLOWS /6 in.</th>
<th>PID ppm</th>
<th>COMPLETION DIAGRAM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>ASPHALT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GM: (Fill Material) Gravel with light and dark brown sand and silt. Slightly damp.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-5</td>
<td></td>
<td>CH: (Bay Mud) Dark gray silty clay containing reeds and other organic material. Moisture increasing with depth. First water encountered at 8 feet bgs on 7/05/95. Static water measured at 3.74 feet bgs on 7/6/95. Strong hydrogen sulfide odor.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**ARTESIAN ENVIRONMENTAL**  
3100 KERNER BLVD., SUITE C • SAN RAFAEL, CA 94901  
TEL (800) 959-4811; FAX (415) 257-4803

**DRAWN BY:**  
**DRAW DATE:** 08-01-95

**DESCRIPTION**

| B-8 2' | 2.3 |
| B-8 3' |
| B-8 4' |
| B-8 5' |
| B-8 6' |
| B-8 7' |
| B-8 8' | 10.3 |
### LOG DETAILS: BORING B-9

<table>
<thead>
<tr>
<th>SITE LOCATION: 351 Airport Road</th>
<th>SITE NAME: Gnoss Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>CITY, STATE: Novato, California</td>
<td>CLIENT: Marin County</td>
</tr>
<tr>
<td>SITE LOCATION: 351 Airport Road</td>
<td>ARTESIAN JOB NO.: 1663</td>
</tr>
<tr>
<td>CITY, STATE: Novato, California</td>
<td>PROJECT MANAGER: J. French</td>
</tr>
</tbody>
</table>

#### Dates and Details:

- **Dates Drilled:** 07-05-90
- **Date Completed:** 07-06-95
- **Logged By:** J. French
- **Drilling Co.:** Artesian
- **Driller:** J. Taylor
- **Inspector:** Tim Underwood, Marin Co.

#### Boring Details:

<table>
<thead>
<tr>
<th>Rig Type</th>
<th>Direct Push</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIG TYPE</td>
<td>Geoprobe</td>
</tr>
<tr>
<td>Sampling Meth.</td>
<td>Probe Drive</td>
</tr>
<tr>
<td>Hammer WT.</td>
<td>NA</td>
</tr>
<tr>
<td>Drop (in.)</td>
<td>NA</td>
</tr>
<tr>
<td>Well Dev.</td>
<td>NA</td>
</tr>
<tr>
<td>Well Cover</td>
<td>NA</td>
</tr>
<tr>
<td>Artesian Job No.</td>
<td>1663</td>
</tr>
</tbody>
</table>

#### Drill Tools:

- **Casing Type/Size:** NA
- **Slot Inter.:** NA
- **Sand Inter.:** NA
- **Sand Type:** NA
- **Bags Sand:** NA
- **First Water:** 8.0 ft. bgs
- **Bags Grout:** 0.25
- **Static Water:** 1.5 ft. bgs
- **Bags Bentonite:** NA
- **Grout Placement:** Gravity
- **Grout Inter.:** 0-8 ft. bgs

#### Soil Description:

- **ASPHALT**
  - GM: (Fill Material) Gravel with light and dark brown sand and silt. Slightly damp.
  - B-9 1'

- **CH** (Bay Mud)
  - Dark gray silty clay containing reeds and other organic material. Moisture increasing with depth. First water encountered at 8 feet bgs on 7/05/95. Static water measured at 1.5 feet bgs on 7/6/95. Hydrogen sulfide odor.
  - B-9 2' 0.8
  - B-9 3'
  - B-9 4' 14.2
  - B-9 5'

#### Notes:

- SEE U.S.C.S. KEY FOR EXPLANATION OF SYMBOLS.
**LOG DETAILS: BORING B-10**  
**PROJECT:** Gnoss Field  
**SITE LOCATION:** 351 Airport Road  
**SITE NAME:** Gnoss Field  
**CITY, STATE:** Novato, California  
**CLIENT:** Marin County  
**ARTESIAN JOB NO.:** 1663  
**PROJECT MANAGER:** J. French

**DATES DRILLED:** 07-05-95  
**DATE COMPLETED:** 07-06-95  
**LOGGED BY:** J. French  
**DRILLER:** J. Taylor  
**INSPECTOR:** Tim Underwood, Marin Co.  
**RIG TYPE:** Direct Push  
**DRILL TOOLS:** Geoprobe  
**HAMMER WT.:** NA  
**SAMPLING METH.:** Probe Drive  
**DRILLING CO.:** Artesian  
**DROP (in.):** NA  
**WELL DEV.:** NA  
**WO KEY / CVR ACC.:** NA  
**BORING DIA (in.):** 2.0  
**TOTAL DEPTH:** 8.0 ft. bgs  
**CASED TYPE / SIZE:** NA  
**CASING TYPE:** NA  
**BAGS SAND:** NA  
**SLOT INTER.:** NA  
**SAND TYPE:** NA  
**BAGS BENTON.: NA**  
**BAGS GROUT:** 0.25  
**FIRST WATER:** 8.0 ft. bgs  
**SAND INTER.:** NA  
**STATIC WATER:** 1.0 ft. bgs  
**WELL COVER:** NA  
**GROUT PLACEMENT:** Gravity  
**GROUT INTER.:** 0.8 ft. bgs

**NOTES:**  
SEE U.S.C.S. KEY FOR EXPLANATION OF SYMBOLS.

**DEPTH**  
**SOIL SYMBOLS/FIELD TEST DATA**  
**SOIL DESCRIPTION**  
**SAMP. #**  
**BLOWS /6 in.**  
**PID ppm**  
**COMPLETION DIAGRAM**  
**DESCRIPTION**

- **ASPHALT**  
  **GM:** (Fill Material) Gravel with light and dark brown sand and silt. Slightly damp.
  **CH:** (Bay Mud) Dark gray silty clay containing reeds and other organic material. Moisture increasing with depth. First water encountered at 8 feet bgs on 7/05/95. Static water measured at 1.0 foot bgs on 7/6/95.
# LOG DETAILS: BORING B-11

## PROJECT:
Gnoss Field

| SITE LOCATION: | 351 Airport Road |
| CITY, STATE: | Novato, California |
| CLIENT: | Marin County |
| ARTESIAN JOB NO.: | 1663 |
| PROJECT MANAGER: | J. French |

### DATES DRILLED:
| 07-05-95 |

### DATE COMPLETED:
| 07-06-95 |

### LOGGED BY:
| J. French |

### DRILLING CO.:
| Artesian |

### DRILLER:
| J. Taylor |

### INSPECTOR:
| Tim Underwood. Marin Co. |

### MW KEY / CVR ACC:
| NA |

### NOTES:
See U.S.C.S. KEY FOR EXPLANATION OF SYMBOLS.

### DEPT.
<table>
<thead>
<tr>
<th>SOIL SYMBOLS/FIELD TEST DATA</th>
<th>SOIL DESCRIPTION</th>
<th>SAMP. #</th>
<th>BLOWS /6 in.</th>
<th>PID ppm</th>
<th>COMPLETION DIAGRAM</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>0</td>
<td>ASPHALT</td>
<td>GM: (Fill Material) Gravel with light and dark brown sand and silt. Slightly damp.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-5</td>
<td>CH: (Bay Mud) Dark gray silty clay containing reeds and other organic material. Moisture increasing with depth. First water encountered at 5 feet bgs on 7/05/95. Static water measured at 1.0 feet bgs on 7/6/95. Strong hydrogen sulfide odor.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-11 3'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-11 4'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-11 5'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**ARTESIAN ENVIRONMENTAL**
3100 Kerner Blvd., Suite C · San Rafael, CA 94901
TEL (800) 959-4801 · FAX (415) 257-4805

DRAWN BY IF
DRAW DATE 08-01-95

BACKFILLED 0 TO 12 FEET BGS: BENTONITE (3%) CEMENT GROUT.
**LOG DETAILS: BORING B-12**  
**PROJECT:** Gnoss Field  

<table>
<thead>
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<th>SITE NAME: Gnoss Field</th>
<th>ARTESIAN JOB NO.: 1663</th>
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</thead>
<tbody>
<tr>
<td>CITY, STATE: Novato, California</td>
<td>CLIENT: Marin County</td>
<td>PROJECT MANAGER: J. French</td>
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</tbody>
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<table>
<thead>
<tr>
<th>DATES DRILLED: 07-05-95</th>
<th>RIG TYPE: Direct Push</th>
<th>BORING DIA (in.): 2.0</th>
<th>TOTAL DEPTH: 12.0 ft. bgs</th>
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<tbody>
<tr>
<td>DATE COMPLETED: 07-06-95</td>
<td>DRILL TYPES: Geoprobe</td>
<td>CASING TYPE / SIZE: NA</td>
<td>BAGS SAND: NA</td>
</tr>
<tr>
<td>LOGGED BY: J. French</td>
<td>DRILL TOOLS: Probe Drive</td>
<td>SLOT INTER: NA</td>
<td>SAND INTER: NA</td>
</tr>
<tr>
<td>DRILLING CO: Arrowsian</td>
<td>SAMPLING METHOD: Probe Drive</td>
<td>SAND TYPE: NA</td>
<td>BAGS BENTONITE: NA</td>
</tr>
<tr>
<td>DRILLER: J. Taylor</td>
<td>HAMMER WT: NA</td>
<td>FIRST WATER: 6.5 ft. bgs</td>
<td>BENT. INTER: NA</td>
</tr>
<tr>
<td>INSPECTOR: Tim Underwood, Marin Co.</td>
<td>DROPS (in.): NA</td>
<td>STATIC WATER: 0.5 ft. bgs</td>
<td>BAGS GROUT: 0.25</td>
</tr>
<tr>
<td>MK KEY / CVR ACC: NA</td>
<td>WELL DEVL: NA</td>
<td>GROUT PLACEMENT: Gravity</td>
<td>GROUT INTER: 0-12 ft. bgs</td>
</tr>
</tbody>
</table>

**NOTES:**  
SEE U.S.C.S. KEY FOR EXPLANATION OF SYMBOLS.

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>FIELD TEST DATA</th>
<th>SOIL SYMBOLS/DESCRIPTION</th>
<th>SOIL DESCRIPTION</th>
<th>SAMP. #</th>
<th>BLOWS 1/6 in.</th>
<th>PID ppm</th>
<th>COMPLETION DIAGRAM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>ASPHALT</td>
<td>GM: (Fill Material) Gravel with light and dark brown sand and silt. Slightly damp.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-5</td>
<td></td>
<td>CH: (Bay Mud)</td>
<td>Dark gray silty clay containing reeds and other organic material. Moisture increasing with depth. First water encountered at 6.5 feet bgs on 7/05/95. Static water measured at 0.5 feet bgs on 7/6/95. Strong hydrogen sulfide odor.</td>
<td>B-12 3'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-10</td>
<td></td>
<td></td>
<td></td>
<td>B-12 4'</td>
<td></td>
<td></td>
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<td></td>
<td>B-12 5'</td>
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<td></td>
<td>B-12 5.8'</td>
<td>8.1</td>
<td></td>
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</tr>
</tbody>
</table>

**ARTESIAN ENVIRONMENTAL**  
3100 KERNER BLVD., SUITE C · SAN RAFAEL, CA 94901  
TEL: (800) 959-4801; FAX: (415) 257-4805

**DRAWN BY:**  
**DRAW DATE:** 08-01-95

**BACKFILLED 0 TO 12 FEET BGS: BENTONITE (3%) CEMENT GROUT.**

Page L-134
**LOG DETAILS: BORING B-13**

| SITE LOCATION: | 351 Airport Road |
| CITY, STATE: | Novato, California |
| SITE NAME: | Gnoss Field |
| SITE LOCATION: | 351 Airport Road |
| CITY, STATE: | Novato, California |
| CLIENT: | Marin County |
| ARTESIAN JOB NO.: | 1663 |
| PROJECT MANAGER: | J. French |

| DATES DRILLED: | 07-05-95 |
| DATE COMPLETED: | 07-06-95 |
| LOGGED BY: | J. French |
| DRILLING CO.: | Artesian |
| DRILLER: | J. Taylor |
| INSPECTOR: | Tim Underwood, Marin Co. |
| MW KEY / CVR ACC: | NA |

| RIG TYPE | Direct Push |
| BORING DIA (in.): | 2.0 |
| TOTAL DEPTH: | 10.0 ft. bgs |
| CASING TYPE / SIZE: | NA |
| BAGS SAND: | NA |
| SLOT INTER.: | NA |
| SAND INTER.: | NA |
| HAMMER WT.: | NA |
| SAND TYPE: | NA |
| BAGS BENTON.: | NA |
| DROP (in.): | NA |
| FIRST WATER: | 4.0 ft. bgs |
| BAGS BAGS: | NA |
| DRILLING TOOLS: | Geoprobe |
| SAND INTER.: | NA |
| SAND INTER.: | NA |
| SAND TYPE: | NA |
| BAGS BAGS: | NA |
| SAMPLING METH.: | Probe Drive |
| SAND TYPE: | NA |
| BAGS BENTON.: | NA |
| LOGGED BY: | J. French |
| DRILLER: | J. Taylor |
| INSPECTOR: | Tim Underwood, Marin Co. |
| MW KEY / CVR ACC: | NA |

**NOTES:**
- SEE U.S.C.S. KEY FOR EXPLANATION OF SYMBOLS.

---

**SOIL DESCRIPTION**

- **GM:** (Fill Material) Gravel with light and dark brown sand and silt. Slightly damp.

- **CH:** (Bay Mud) Dark gray silty clay containing reeds and other organic material. Moisture increasing with depth. First water encountered at 4 feet bgs on 7/05/95. Static water measured at 1.0 feet bgs on 7/6/95.

---

**FIELD TEST DATA**

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>SOIL SYMBOLS/FIELD TEST DATA</th>
<th>SOIL DESCRIPTION</th>
<th>SAMP. #</th>
<th>BLOWS /6 in.</th>
<th>PID ppm</th>
<th>COMPLETION DIAGRAM</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>![Asphalt Symbol]</td>
<td>ASPHALT</td>
<td>B-13 2'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-5</td>
<td>![Asphalt Symbol]</td>
<td>GM (Fill Material)</td>
<td>B-13 3'</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-10</td>
<td>![Asphalt Symbol]</td>
<td>CH (Bay Mud)</td>
<td>B-13 4'</td>
<td>0.3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**BACKFILLED 0 TO 10 FEET BGS: BENTONITE (3%) CEMENT/grout.**

**ARTESIAN ENVIRONMENTAL**

1100 Kerner Blvd., Suite C · San Rafael, CA 94901
TEL. (800) 959-4801: FAX (415) 257-4855

**DRAWN BY IF**

**DRAW DATE: 08-01-95**
Appendix C

Site Safety Plan
A. GENERAL INFORMATION

Site Location: Marin County Airport - Gnoss Field, 451-A Airport Rd, Novato, California

Plan Prepared By: Richard Ely, RG #4137 Date: September 22, 2009

Objective(s): Assess the extent of FHC-impacted soil and groundwater in the area formerly occupied by three USTS by advancing 10 exploratory soil borings for chemical analyses of soil and groundwater samples.

Background Review: Complete: X Preliminary:

Documentation/Summary: Overall Hazard: Serious: Moderate: Low: X Unknown:

Unusual Features (power lines, terrain, utilities, etc.): Buildings and aircraft and vehicular traffic entering and exiting property.

STATUS: Active: X Inactive: Unknown:

HISTORY: (Agency Action, Complaints, Injuries, etc.) One 10,000-gallon UST for jet fuel and two 10,000-gallon USTs for aviation gasoline were removed from a common excavation in September 1991. Based on the results of samples collected during the UST removal and subsequent subsurface investigations, the SFBRWQCB requested a workplan for the proposed scope of work.

B. SITE WASTE CHARACTERISTICS

Waste Type(s): Liquid: X(water) Solid: X(soil) Sludge: Gas:

Characteristic(s): Corrosive: Ignitable: Radioactive: Volatile: X Toxic: X Reactive: Unknown Other (name): Flammable

Facility Description: Airport

Principle Disposal Method (type and location): Rinsate from decontamination procedures and drill cuttings from the soil borings will be contained in 55-gallon drums for later disposal.
C. **HAZARD EVALUATION**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Description</th>
<th>Threshold Limit Values (TLVs)</th>
<th>Persons Exposed and Potential Routes of Exposure</th>
<th>Symptoms of Acute Exposure</th>
<th>TLV Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8-hr TWA</td>
<td>Short-term Exposure Limit (STEL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzene</td>
<td>Carcinogen, aromatic HC</td>
<td>0.5 ppm 2.5 ppm</td>
<td>Inhalation, dermal ingestion</td>
<td>Headache, dizziness</td>
<td>Cancer</td>
</tr>
<tr>
<td>Toluene</td>
<td>Aromatic HC</td>
<td>50 ppm</td>
<td>—</td>
<td>Inhalation, dermal ingestion</td>
<td>Headache, dizziness</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>Aromatic HC</td>
<td>100 ppm 125 ppm</td>
<td>Inhalation, dermal, ingestion</td>
<td>Headache, dizziness</td>
<td>Irritation, CNS</td>
</tr>
<tr>
<td>Xylenes</td>
<td>Aromatic HC</td>
<td>100 ppm 150 ppm</td>
<td>Inhalation, dermal, ingestion</td>
<td>Headache, dizziness</td>
<td>Irritation</td>
</tr>
<tr>
<td>Gasoline</td>
<td>Flammable liquid</td>
<td>300 ppm 500 ppm</td>
<td>Inhalation, dermal, ingestion</td>
<td>Headache, dizziness</td>
<td>Irritation, CNS</td>
</tr>
<tr>
<td>Diesel Fuel</td>
<td>Flammable liquid</td>
<td>pending</td>
<td>—</td>
<td>Inhalation, dermal, ingestion</td>
<td>Headache, dizziness, eye/skin irritation</td>
</tr>
<tr>
<td>MTBE</td>
<td>Flammable liquid, Oxygenate</td>
<td>40 ppm</td>
<td>—</td>
<td>Inhalation, dermal, ingestion</td>
<td>Headache, dizziness, eye/skin irritation, nausea</td>
</tr>
</tbody>
</table>

D. **SITE SAFETY WORKPLAN**

- **Perimeter Establishment:** Map/Site Sketch: See Workplan
- **Site Secured:**
- **Perimeter Identified:** Zone(s) of Contamination Identified:

**Personal Protection:**

- **Level of Protection:** A: B: C: D: X
- **Modifications:** Upgrade to level C upon high PID readings (5 ppm)
- **Surveillance Equipment and Materials:** Instrument: PID

**Action Level:** 5 ppm
SITE PROCEDURES: Advance 10 exploratory soil borings, collect soil and groundwater samples, dispose of waste material.

HAZARDS: Potential hazards onsite comprise proximity to drilling equipment, exposure to explosive and flammable petroleum vapors and carcinogens.

LEVEL OF PROTECTION: Equipment to protect the body from contact with chemical hazards has been categorized by the Environmental Protection Agency into levels A, B, C, and D. Level A equipment is used when the highest level of protection is needed; Level D equipment is used when minimum protection is needed. The chemical hazard associated with petroleum hydrocarbons is typically low and Level D protection (see equipment list below) is adequate. In case of high levels of contamination, an upgrade to Level C protection equipment may be advised. Level C and D equipment are listed below.

Level C Equipment: NIOSH/MSHA approved air purifying respirator, chemical resistant clothing, chemical resistant inner and outer gloves, chemical resistant boots with steel toe and shank, safety glasses and hard hat.

Level D Equipment: Coveralls, gloves, chemical resistant boots or shoes with steel toe and shank, safety glasses or chemical splash goggles, and hard hat. Tyvex overalls and Solvex or equivalent gloves are recommended.

EQUIPMENT REQUIRED: Normal work clothing may be worn with the following additions:

Excavations: Wear neoprene boots if walking in the excavation or in or around waste soils. Wear a hard hat when near excavation equipment.

Drilling: Wear a hard hat when near the drill rig.

Soil Sampling: Chemical resistant gloves are required when sampling.

Groundwater Sampling: Chemical resistant gloves are required when sampling.

A First Aid Kit and fire extinguisher are also required.

AIR MONITORING: A photo-ionization detector (PID) should be used to monitor the breathing zone during drilling activities. Readings above 5 ppm are cause for concern. Continuous readings of 5 ppm or greater in the breathing zone requires an upgrade to Level C, including use of half-face respirator with organic vapor cartridges. Continuous readings of 50 ppm or greater in the breathing zone requires stopping the work.

DECONTAMINATION PROCEDURES:

Personal: Remove gloves, wash hands; clean boots in decontamination area.

Equipment: Steam cleaning of all excavation and drilling equipment in the decontamination area. TSP wash of sampler between samples.

FIRST AID: Consultants vehicle has a first aid kit.

WORK LIMITATIONS (time of day, weather, heat/cold, stress): None
INVESTIGATION-DERIVED MATERIAL DISPOSAL: Soil and groundwater disposal to be determined based on analytical results; store in 55-gallon drums pending disposal.

E. EMERGENCY INFORMATION

LOCAL RESOURCES:
- Ambulance: 911
- Hospital Emergency Room: Novato Community Hospital
  180 Rowland Way
  Novato, California 94945
  (415) 209-1300
- Poison Control Center: 911
- Police: 911
- Fire Department: 911
- Explosives Unit: 911
- Agency Contact: John Jang, SFBRWQCB
  (510) 622-2366

SITE RESOURCES:
- Water Supply: Onsite
- Telephone: Cell Phones onsite
- Radio: None

EMERGENCY CONTACTS:
- Name: John Calomiris, EC&A
  Phone: (707) 792-9500
- Name: Larry Beaton, MCDPW
  Phone: (415) 499-6412

EMERGENCY ROUTE: See Figure H

SITE SKETCH: (Work zones, command post, etc.): See Workplan

Signature

Date
1. Head **west** on **Airport Rd** toward **Binford Rd**

2. **Turn left at Binford Rd**
   - About 4 mins
   - go 0.2 mi
   - total 0.2 mi

3. **Turn right at Atherton Ave**
   - About 1 min
   - go 0.2 mi
   - total 2.1 mi

4. **Turn left to merge onto US-101 S toward San Francisco**
   - About 2 mins
   - go 1.5 mi
   - total 3.6 mi

5. **Take the Rowland Blvd exit**
   - About 1 min
   - go 0.4 mi
   - total 4.0 mi

6. **Turn left at Rowland Blvd**
   - About 2 mins
   - go 0.3 mi
   - total 4.3 mi

7. **Turn left at Rowland Way**
   - About 1 min
   - go 0.4 mi
   - total 4.7 mi
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