

APPENDIX 5.14A

## **Final Phase I and II ESA**

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October 19, 2004

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**WESTERN DEVELOPMENT AREA  
PHASE I AND PHASE II ENVIRONMENTAL  
SITE ASSESSMENT  
EPA ID CAD 009151671  
DuPont Oakley Site  
Oakley, California**

Dear Mr. Wright:

As discussed previously in meetings with the Department of Toxic Substances Control (DTSC), DuPont is pursuing a redevelopment strategy in concert with the RCRA corrective action program requirements for the Oakley Site. Prior to designation of DTSC as the lead agency for the site, DuPont performed an investigation of non-manufacturing areas along the western and southwestern edges of the DuPont property, with the intent of demonstrating that these areas had not been impacted by former manufacturing operations conducted elsewhere at the site. The results of this investigation are enclosed, and DuPont believes that the findings of this report will establish that no further corrective action obligations remain with respect to the 44.4 acres identified as the Western Development Area (WDA).

Please review the attached report, which, if acceptable to DTSC, will provide the basis for a permit modification to remove the WDA from the DuPont facility boundary subject to corrective action. DuPont understands that a survey of the WDA boundary and other administrative requirements will need to be fulfilled before a formal permit modification may be undertaken.

If you have any questions or wish to discuss this matter in further detail, please do not hesitate to call me at (281) 586-5676.

Sincerely,

Chuck Orwig  
Project Coordinator/Project Director

CO:lwg

Enclosures: Two copies of the above-reference report

cc: Kate Burger – DTSC  
Carol Malling – DuPont (two copies)  
File: WPOakley-01-29-04\WDA 2004\Western Development Area Report Transmittal Letter.doc

# WESTERN DEVELOPMENT AREA PHASE I AND PHASE II ENVIRONMENTAL SITE ASSESSMENT DUPONT OAKLEY SITE



Date: October 19, 2004

Project No: 504233  
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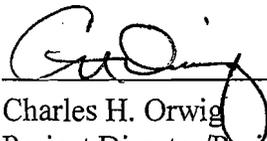


CORPORATE REMEDIATION GROUP  
*An Alliance between  
DuPont and URS Diamond*

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## PROJECT COORDINATOR CERTIFICATION

I certify that the information contained in or accompanying this submittal is true, accurate, and complete. As to those portions of this submittal for which I cannot personally verify the accuracy, I certify that this submittal and all attachments were prepared at my direction in accordance with procedures designed to assure that qualified personnel properly gathered and evaluated the information submitted.

  
\_\_\_\_\_  
Charles H. Orwig  
Project Director/Project Coordinator

October 19, 2004  
Date

## REPORT CERTIFICATION

This report presents the Western Development Area Phase I and Phase II Environmental Site Assessment for the E. I. du Pont de Nemours and Company facility in Oakley, California. This report has been prepared in accordance with current standards of professional practice; no other warranty is expressed or implied.



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Table of Acronyms and Abbreviations

Acronym/Abbreviation	Definition
2,3,7,8-TCDD	2,3,7,8-Tetrachloro-p-dibenzodioxin
AKC	Anti-knock compounds
AOPC	Area of potential concern
ASTM	American Society of Testing and Materials
BGS	Below ground surface
Cal/EPA	California Environmental Protection Agency
Cal/OEHAA	California Office of Environmental Health Hazard Assessment
CFC	Chlorofluorocarbon
COI	Constituent of interest
CMCL	California Maximum Contaminant Limit
DRO	Diesel Range Organics
DTSC	Department of Toxic Substance Control
DuPont	E.I. du Pont de Nemours and Company, Inc.
EDR	Environmental Data Resources, Inc.
ESA	Environmental site assessment
LUST	Leaking underground storage tank
MEK	Methyl ethyl ketone
Mg/kg	Milligrams per kilogram
MTBE	Methyl tert butyl ether
PCB	Polychlorinated biphenyls
PPB	Parts per billion
PPT	Parts per trillion
PRG	Preliminary remediation goal
RBSC	Risk-based screening concentration
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SFRWQCB	San Francisco Regional Water Quality Control Board
SLIC	Spills, Leaks, Investigations and Cleanups
TEF	Toxicity equivalent factor
TEQ	Toxic equivalent
TiO <sub>2</sub>	Titanium dioxide
USEPA	United States Environmental Protection Agency
VOCs	Volatile organic compounds
UST	Underground storage tank
WDA	Western Development Area
WHO	World Health Organization
WQO	Water quality objective

## 1.0 INTRODUCTION

### 1.1 Background

This report presents the findings of the Phase I and Phase II Environmental Site Assessment (ESA) at the E.I. du Pont de Nemours and Company, Inc. (DuPont) Oakley Site's Western Development Area (WDA) parcel located at 6000 Bridgehead Road, Oakley, California. The WDA (Figure 1-1) includes a parking lot, security office and administration building, an electrical substation, landscaped areas, and areas that were previously under cultivation, but that are now disced for fire control. A wetlands mitigation site of approximately 0.54 acre is also present in the southwest corner of the 44.4-acre WDA. No manufacturing or waste management facilities were ever located within the boundaries of the WDA.

An evaluation of historical land uses in the WDA parcel indicated that soil contamination was not anticipated. However, given the potential for redevelopment of the WDA, DuPont determined that an investigation should be performed to establish baseline conditions in the area. The investigation approach was based on ASTM Standard E 1527-00, which calls for a Phase I ESA, to be followed by a Phase II ESA if environmental sampling is warranted (ASTM, 1995).

Results of the Phase I and Phase II ESA are found in Sections 2.0 and 3.0, respectively. A summary of recent groundwater investigations and sentry well monitoring results pertinent to the area along the eastern boundary of the WDA are found in Section 4.0. Although groundwater contamination is present to the east of the WDA, groundwater investigations and the site conceptual model are in agreement with respect to the low potential for further plume migration toward the west. In 2004, DuPont installed two sentry wells in the Surficial and Upper aquifers (see Figure 1-1 for locations) to monitor water quality along the proposed eastern boundary of the WDA. In addition, DuPont has submitted a work plan to the Department of Toxic Substances Control (DTSC, Phase 2 Monitoring Well Installation and Decommissioning Work Plan) requesting installation of two Lower Aquifer sentry wells in the same location. Together, these four wells will be monitored to verify that groundwater plume constituent concentrations remain below site-specific water quality objectives (WQOs).

### 1.2 Site Location and Description

The DuPont Oakley Site is located at 6000 Bridgehead Road, in Oakley, Contra Costa County, California. The site is located adjacent to the San Joaquin River and the San Joaquin Delta area, approximately 55 miles east of San Francisco and approximately 60 miles southwest of Sacramento, adjacent to State Route 160 (see Figure 1-1). The WDA parcel is bounded on the north by the Lauritzen Yacht harbor property, on the south by the Southern Pacific railroad tracks and a Pacific Gas and Electric (PGE) substation, on the west by State Highway 160 and Bridgehead Road, and on the east by the former manufacturing areas at the Oakley Site. The former manufacturing areas are

situated on 54.3 acres of a 378-acre tract owned by DuPont and have been closed since 1999. Prior to construction of the manufacturing facilities, the property was used for agriculture. The WDA parcel (44.4 acres) of the Oakley Site has been cultivated for weed control and has been used for open space, administrative offices, vineyards, and parking areas.

The former DuPont manufacturing facilities produced chlorofluorocarbons (CFCs), fuel-additive anti-knock compounds (AKCs) and titanium dioxide ( $\text{TiO}_2$ ). All three manufacturing processes have now been eliminated, beginning with AKC manufacturing in 1981, CFC manufacturing in 1996, and  $\text{TiO}_2$  manufacturing in July 1998, followed by a general shutdown of all  $\text{TiO}_2$  and CFC blending operations on March 31, 1999. All manufacturing facilities at the site have since been demolished. A DuPont Performance Coatings (Kansai) warehouse and distribution center currently operates at the site, but is unrelated to previous manufacturing operations. The DuPont/Kansai warehouse and distribution center is located east of the WDA parcel (see Figure 1-1).

The Oakley site lies approximately 10 to 12 feet above sea level, is fairly level, and is covered with fine dune sands at the surface. The regional geology is representative of a high-energy fluvial depositional environment. The upper 120 feet of unconsolidated sediment consists of a series of upward fining sequences associated with alluvial and fluvial deposition. Underlying this sequence is the relatively impermeable silty clay Montezuma Formation, which is approximately 200 to 300 feet thick beneath the site (DuPont CRG, 2002b).

## 2.0 PHASE I ESA

### 2.1 Scope

The purpose of the Phase I investigation was to gather information to determine if hazardous materials were potentially manufactured, stored, used, or released into the WDA parcel. The Phase I ESA activities consisted of preliminary information gathering, personnel interviews, inspection of the property, and review of historical aerial photographs. Surrounding land uses were assessed and historic land uses of the WDA parcel were reviewed. This investigation covered selected areas in the western portion of the Oakley Site where there is no history of manufacturing unit operations taking place. The extent of the WDA parcel is shown on Figure 1-1.

The property inspection was performed by a URS Diamond employee, accompanied by Bob Deaver, the Oakley Site Manager. Mr. Deaver is a former DuPont employee (currently working as a contractor), with more than 30 years of experience working at the Oakley facility.

### 2.2 Summary of Record Search Results

Environmental Data Resources, Inc. (EDR) performed a search of computerized listings of available environmental records of regulated sites within the 1-mile search distance specified by ASTM E-1527-97. The Phase I evaluation focused on soil, while the EDR report presented information related to soil and groundwater. A copy of the EDR report, with figures, is included as Appendix A.

Most of the listings in the EDR search were for the Oakley Site (shown as site A on the EDR map); however, no listings were found in the area identified as the WDA parcel. The Oakley Site in its entirety was listed as an area with active underground storage tanks, as a large-quantity hazardous waste generator, and is now listed under the Spills, Leaks, Investigations, and Cleanups (SLIC) program by the California Regional Water Quality Control Board. The DTSC provides oversight for the corrective action program at the Oakley Site.

#### *Sites within one-half mile radius*

As shown on the overview figure in Appendix A, there are nine "sites" within one-half mile of the Oakley Site.

**Site 11 New Bridge Marina.** This site is shown on the Overview Map in Appendix A as being hydraulically upgradient from the Oakley Site. However, the actual location is downgradient of the Oakley site, at the edge of the San Joaquin River. This is a leaking underground storage tank (LUST) site where methyl tert butyl ether (MTBE) has been detected in soil and groundwater. This site is also listed in the DTSC waste manifest database (called HAZNET), which contains data included in hazardous waste manifests received each year by the DTSC. The site is listed as generating unspecified oil-containing waste that is disposed of off-site.

**Site 12 Oakley Builders Supply.** A gasoline underground storage tank (UST) was formerly located at this site. The status is listed as “Case Closed,” and the case type is indicated as “Soil Only.”

**Site 13 Bridgehead, Inc.** This site is a former gas station at the corner of Highway 4 and Bridgehead Road. Petroleum product releases from a LUST were reported to the Regional Water Board in 1993. MTBE has been detected in groundwater, the status is listed as “Case Closed,” and the case type is indicated as “Aquifer Affected.” The site also generates liquid organic residues that are disposed of off-site.

**Site 14 Contra Costa Auto Salvage.** This site is listed because it is a waste tire location. No specific information concerning releases from the site is presented in the EDR report.

**Site 15 Chevron #9-3801.** This site is a gas station that reported a LUST in 1988. Status is listed as “Case Closed,” and the case type is indicated as “Aquifer Affected.”

**Site B Delta Scrap & Salvage - GE Sales/Delta Scrap.** These sites are on the Contra Costa County site list that includes sites from the underground tank, hazardous waste generator, and the business plan program. The program requires annual inventory reporting for businesses that store certain quantities of hazardous materials.

**Site C Mello’s Sheet Metal.** This site is on the Contra Costa County site list that includes sites from the underground tank, hazardous waste generator, and the business plan program. The program requires annual inventory reporting for businesses that store certain quantities of hazardous materials. The site is also on the state UST list.

**Site D Palex.** This site is listed on HAZNET as generating liquid halogenated organic compound wastes and liquid organic compound wastes that are disposed of off-site.

**Site D Kamp’s Propane.** This site is on the Contra Costa County site list that includes sites from the underground tank, hazardous waste generator, and the business plan program. The program requires annual inventory reporting for businesses that store certain quantities of hazardous materials.

## 2.3 Property Inspection

The WDA parcel was inspected to determine whether there were any visible signs of potentially impacted areas (e.g., stained soil). No visible signs of spills or constituent impacts were found in any area of the WDA.

The electrical substation was built in 1955 and is still in use. Even though no visible signs of impact were observed in this area, this is one of two areas of potential concern (AOPC) in the WDA parcel. The second AOPC is an area south of 5th Avenue where a temporary above-ground storage tank for gasoline was located for use during the repair of a permanent pump and tank. The location of the Electrical Substation and the former temporary AST are shown in Figure 1-1.

## 2.4 Aerial Photographs (1953 to 1996)

Appendix B contains 28 photographs taken periodically, from before construction of the Oakley plant (manufacturing began in 1955) until shortly before manufacturing ceased (in 1998). As is demonstrated in these photographs, the area delineated as the WDA parcel has not been used for manufacturing operations.

Three buildings, all of which are located in the vicinity of the electrical substation, are visible on the aerial photos. The larger building pad (east and northeast of the electrical substation) was the Engineering Building, or Field Office Building #613. This building was used as office space for technical and engineering staff and was never used for manufacturing. Two smaller structures were located south of the electrical substation; neither structure was used for manufacturing operations. A small portable structure was located at the secondary gate at the western end of 5th street, which was used as an office for a security guard. Another small structure was located outside the fence line at the west end of 5th Street; this structure housed a weigh master and a truck scale readout.

## 2.5 Phase I ESA Conclusions

Based upon a review of known sites with LUSTs or hazardous material releases, there is a low potential for Oakley Site, and therefore WDA, soils to be impacted by off-site sources. Most of the reported sites are either greater than one-half mile from the site or located downgradient of the site. Based on the EDR report, the nearest upgradient site where constituents have been released to groundwater is the Chevron Station (5433 Neroly Road) located 2,000 feet from the site. The station is visible as Site 15 on the overview map contained in Appendix A (below and to the left of center).

Based on a review of aerial photographs from 1953 through 1996, an evaluation of historical records for the facility, and interviews with former employees, there was no indication of constituent releases on the WDA parcel and there is a high degree of confidence that the WDA parcel has not been used for manufacturing purposes.

The Electrical Substation and former AST were identified as AOPCs. In addition, the former manufacturing area is adjacent to the WDA parcel. Due to its proximity, it is possible that constituents related to the manufacturing area could be present in the soil in the WDA parcel. Consequently, a Phase II ESA was recommended.

## 3.0 PHASE II ESA

The purpose of the Phase II ESA was to determine whether or not manufacturing-related constituents resulting from nearby on-site operations were present in the soil in the WDA parcel, to determine whether certain AOPCs might have evidence of prior releases to soil, and also to determine whether the WDA would require further evaluation prior to redevelopment. In addition to sampling locations selected for their proximity to AOPCs, the entire remaining area of the WDA was sampled using a randomized parcel-wide sampling grid. The WDA was evaluated for the presence of the primary site-related constituents identified during previous investigations completed at the DuPont manufacturing facility. These constituents include VOCs and inorganic constituents (e.g., lead, arsenic, and other inorganic constituents). These data were evaluated by comparing the results to residential risk-based screening concentrations (RBSCs).

### 3.1 Phase II ESA Sampling Plan

#### 3.1.1 Electrical Substation

Four soil borings were installed in the vicinity of the Power Substation (RB-042 through RB-045). Surface soil (zero to two feet deep) samples were collected from each boring and analyzed for VOCs, Resource Conservation and Recovery Act (RCRA) inorganic constituents, and polychlorinated biphenyls (PCBs). The locations of samples collected at the Electrical Substation are shown in Figure 3-1, and the analytical results are presented in Table 3-1, and the summary statistics are presented in Table 3-2.

#### 3.1.2 Former Temporary Gasoline AST

Samples were collected at depths of zero to one foot, one to one and one-half feet, and from four to six feet below ground surface (bgs) at this location and were analyzed for UST constituents as part of the Phase 1 Soil RFI sampling program (DuPont CRG, 2004). The analytical results are presented in Table 3-3, and the summary statistics are presented in Table 3-4.

#### 3.1.3 Sierra-Crete® Road Base Sampling

Sierra-Crete® is a structural road base material that was manufactured at the Oakley Site between 1988 and 1997. In the early part of 2002, testing by DuPont established that Sierra-Crete® contained trace levels of dioxins. Approximately 600 feet of road with Sierra-Crete® as road base were constructed in the WDA parcel. Sierra-Crete® was sampled at four locations in the WDA parcel. These sampling locations (i.e., SC-01, SC-02, SC-04, and SC-06) are presented in Figure 3-2 and Appendix C (for all Sierra-Crete® samples), and the analytical reports are presented in Appendix D.

### 3.1.4 Dioxin/Furan/PCB Soil Sampling

Other areas were sampled to determine whether dioxins and furans potentially associated with titanium dioxide manufacturing operations were present in soil. Two surface soil samples (PBT-05 and PBT-06) and a duplicate were collected to assess the potential presence of dibenzo-dioxins, dibenzo-furans, and related PCBs in the WDA parcel. Sample PBT-05 was collected from immediately beneath one of the weathered Sierra-Crete® test roads. Sample location PBT-06 was chosen for its close proximity to the former titanium dioxide production area. Locations sampled are shown in Figure 3-2, and the analytical data are presented in Appendix C.

### 3.1.5 Generalized Grid Sample Locations

In 2001, 39 soil samples were collected in the WDA parcel during the Phase II ESA. Soil samples were collected at 0 to 1, 3 to 5, or 5 to 6 feet bgs from 21 randomly selected locations. Figure 3-2 displays the soil sample locations in the WDA parcel. Soil sampling locations were designated with "EXP" and "RB" prefixes.

### 3.1.6 Sampling Procedures

The samples were collected according to the procedures presented in Appendix D and were analyzed by Severn Trent Laboratories-Austin, Texas, and ALTA Analytical Laboratories. The QA/QC results summary for data obtained from each laboratory are also presented in Appendix D. The data were deemed acceptable for use. In addition, the detection limits were compared to RBSCs and found to be sufficiently sensitive.

## 3.2 Evaluation of Analytical Results

### 3.2.1 Technical Approach

Detected soil concentrations were compared to human health RBSCs to determine if there were any COIs in the WDA parcel. The soil RBSCs are conservative, non-site-specific, risk-based concentrations corresponding to an incremental cancer risk of one-in-a-million or a non-cancer hazard quotient of 1 for the residential receptor exposure scenario (Cal/EPA 1996). The soil RBSCs assume exposure to constituents due to incidental ingestion, dermal contact, inhalation of particulates, and inhalation of vapor emissions into ambient air (VOCs only). If representative site soil concentrations do not exceed the residential RBSCs, and the site has been adequately investigated, no further action is generally warranted and the site is considered suitable for unrestricted future land use. For purposes of the Phase II assessment, the maximum detected concentrations were compared to the RBSCs. In most cases, the maximum concentration for each constituent is not representative of actual conditions in the WDA parcel (i.e., they are overly conservative). If the RBSCs are exceeded, a more refined, site-specific evaluation of potential risk may need to be performed.

Soil concentrations were not compared to ecological soil screening levels since the WDA represents neither exploitable habitat nor is considered critical to the functioning or stability of any natural ecosystem. The former vineyard and other upland areas do not represent exploitable habitat since those areas are regularly disced for weed control, and the limited stands of trees in the WDA parcel provide little exploitable habitat relative to the availability of similar habitat nearby.

### 3.2.2 Electrical Substation Sample Results

Four surface soil (zero to two feet) samples were collected at locations RB-042 through RB-045 (see Figure 3-1). Analytical data for these samples are presented in Table 3-1, and the summary statistics are presented in Table 3-2. Only a few constituents were detected in this area, and all detected constituent concentrations, including PCBs, were below residential RBSCs. Samples in this area showed the following:

- ❑ Several inorganic COIs were detected including, barium, cadmium, chromium, lead, and mercury.
- ❑ The maximum arsenic concentration is 2.2 milligrams per kilogram (mg/kg; (RB-042). This concentration is less than the maximum detected background concentration (4.0 mg/kg) found at the Cline property (see Figure 1-1 for Cline property location). Since the Cline property has been continuously operated as a vineyard, both during and subsequent to the time of DuPont ownership, it was selected as a location from which to collect background samples (DuPont CRG, 2002a). This concentration is also below the San Francisco Regional Water Quality Control Board guidance value of 8 mg/kg (SFRWQCB, 2001). The guidance indicates that arsenic values less than 8 mg/kg should be considered background due to the ubiquitous presence and relatively elevated concentration of this constituent found in the San Francisco Bay region (SFRWQCB, 2001).
- ❑ The only VOCs detected were acetone, methyl ethyl ketone, and methylene chloride. Acetone and methyl ethyl ketone are most likely laboratory artifacts and the methylene chloride detection (0.0012 mg/kg) was near the detection limit.

### 3.2.3 Former Temporary Gasoline AST

Two samples were collected at zero to one foot bgs (primary sample and a field duplicate), one to one and one-half feet bgs (primary sample and a field duplicate), and one sample was collected four to six feet bgs at location OS-9 (see Figure 3-1). Analytical data for these samples are presented in Table 3-3, and the summary statistics are presented in Table 3-4. The only constituent that was detected was the diesel range organics (DRO). At zero to one and one to one and one-half feet DRO was detected in one sample, but not the duplicate sample. At four to six feet bgs DRO was not detected. There is no RBSC (i.e., Region IX Preliminary Remediation Goal [PRGs, USEPA 2002]) for diesel, but screening values have been developed by the SFRWQCB. The maximum detected concentration of DRO was 200 mg/kg and is well below the appropriate screening value for DRO based on a residential direct contact exposure scenario, which is 500 mg/kg (SFRWQCB, 2004).

### 3.2.4 Sierra-Crete® Road Base Sample Results

Appendix C contains the summary analytical data tables; analytical reports are provided in Appendix D. World Health Organization (WHO) toxicity equivalency factors were used to normalize individual dioxin/furan/PCB congener results into 2,3,7,8-tetrachloro-p-dibenzodioxin (2,3,7,8-TCDD) toxic equivalents (TEQ) (Cal/OEHHA, 2003). These individual values were then summed to establish a total "dioxin" concentration for each sample expressed on a WHO-TEQ basis. When congeners were reported as "not detected," a value of one-half the detection limit was used to calculate the WHO-TEQ concentration.

The levels of dioxins observed in the four WDA parcel Sierra-Crete® samples submitted for analysis ranged from 160 to 317 parts per trillion (ppt) 2,3,7,8-TCDD WHO-TEQ. These levels are well below the 1,000 ppt level that the DTSC has used as a basis for action in residential soils (Environ, 2002).

In 2004, the Sierra-Crete® test roads in the WDA were removed and disposed of off-site. The statement of work that was submitted to DTSC and a summary of the removal activities are presented in Appendix E. There has been extensive characterization of on-site and off-site Sierra-Crete®. These data have demonstrated that the Sierra-Crete® product is below applicable delineation criteria for dioxins and that there is no evident migration of dioxins from the parent material (Environ, 2003).

### 3.2.5 Dioxin/Furan/PCB Soil Sample Results

Concentrations of dioxins in the PBT-05 and PBT-06 samples ranged from 4.4 to 8.1 ppt 2,3,7,8-TCDD WHO-TEQ. These levels are well below the 1,000 ppt level that DTSC has used as a basis for action in residential soils.

### 3.2.6 Generalized Grid Sample Locations Results

This area contains 21 soil sample locations where 39 samples were collected at zero, one and/or three feet below bgs. Because the sampling was not focused on a specific waste unit or process, the sample locations were distributed on a grid system (see Figure 3-2). This grid system corresponds to the historical use of the area.

#### Northern Vineyard Blocks

The area at the north end of the WDA, blocks 1A, 1B, 2A, 2B, 3A, and 3B, was formerly used as a vineyard (see Figure 3-2). These blocks contain sample locations RB-002, RB-003, and RB-005. Samples were collected at each location at zero to one foot bgs and three to five feet bgs. Analytical data for these six samples are presented in Table 3-5, and the summary statistics are presented in Table 3-6. Only a few constituents were detected in this area, and all detected constituent concentrations were below residential RBSCs with the exception of arsenic. Samples from this area showed the following:

- Several inorganic COIs were detected including, barium, cadmium, chromium, lead, and mercury. The maximum arsenic concentration is 2.0 mg/kg (RB-003), which is below the arsenic background concentration (see Section 3.2.2).

- ❑ Endosulfan sulfate was found at the detection limit of 0.0013 milligrams per kilogram (mg/kg) in two samples (RB-002 at three feet to five feet bgs and RB-003 at zero to 1 foot bgs).
- ❑ The only VOCs detected were acetone and methyl ethyl ketone, which are most likely laboratory artifacts.

### **Administration Building Area**

Block 4B contains the administration building and numerous redwood trees and juniper bushes. One sample each were collected at zero to one foot bgs and at three to five feet bgs. Analytical data for these two samples are presented in Table 3-7, and the summary statistics are presented in Table 3-8. Only a few constituents were detected in this area, and all detected constituent concentrations were below residential RBSCs with the exception of arsenic. Samples from this area showed the following:

- ❑ Several inorganic COIs were detected including, barium, cadmium, chromium, lead, mercury, and selenium. The maximum arsenic concentration is 1.4 mg/kg (RB-007), which is below the arsenic background concentration (see Section 3.2.2).
- ❑ The only VOC detected was methyl ethyl ketone, which is most likely a laboratory artifact. No other VOCs were detected.

### **Manufacturing Support Area and Southern Vineyard Blocks**

In the southern portion of the WDA parcel, 31 samples were collected from sample locations RB-006, RB-009, RB-010, RB-011, RB-012, RB-016, RB-017, RB-018, RB-019, RB-021, RB-046, EXP-06, RB-048, RB-047, EXP-01, EXP-02, and RB-049. Seventeen samples were collected at zero to one foot bgs, ten samples were collected at three to five feet bgs, and four samples were collected at five to six feet bgs. Analytical data for these samples are presented in Table 3-9, and the summary statistics are presented in Table 3-10. Sample results showed the following:

- ❑ With the exception of arsenic, all maximum detected concentrations of inorganic constituents were below their associated residential RBSCs. The maximum arsenic concentration is 4.0 mg/kg (RB-047), which is below the arsenic background concentration (see Section 3.2.2).
- ❑ Acetone, methyl ethyl ketone, and methylene chloride were the only VOCs detected; the maximum detected concentrations of these constituents were below their associated residential RBSCs.

## 4.0 GROUNDWATER CHARACTERIZATION ADJACENT TO WESTERN DEVELOPMENT AREA

Site groundwater within the vicinity of the Western Development Area (WDA) is distributed across three local hydrostratigraphic units denoted as the Surficial, Upper, and Lower Aquifers, based upon the presence of local-scale confining layers of silt and clay. The Lower Aquifer has been further subdivided into an upper zone, consisting of L1 and L2 zones, and a lower zone (L3). These zone divisions are based on differences in permeability within and in some cases between zones (i.e., aquitards). The three primary hydrostratigraphic units consist of approximately 120 feet of unconsolidated alluvial/fluvial sediment, underlain by a 200- to 300-foot-thick silty clay marine deposit (URS, 2000) referred to as the Montezuma Formation. The Montezuma Formation is relatively impermeable and functions as an aquitard, representing the “bottom” of the groundwater flow system beneath the site.

Groundwater flow in the area is generally northward towards the San Joaquin River, although the Surficial and Upper Aquifers are more influenced by surface water features such as the Lauritzen Yacht Harbor. Consequently, the eastern boundary of the WDA is located adjacent to the western periphery of a site groundwater plume denoted as Plume 1 (Figure 4-1) that originates from the former Freon Manufacturing Area. The primary constituents of interest (COIs) within Plume 1 include: tetrachloroethene (PCE); carbon tetrachloride (CT); trichloromethane (TCM) or chloroform; methylene chloride; 1,1,2-trichlorotrifluoroethane (CFC-113); trichlorofluoromethane (CFC-11); dichlorodifluoromethane (CFC-12); 1,2-dichloroethane (1,2-DCA or EDC); 1,2-dibromoethane (1,2-DBA or EDB); arsenic; and fluoride.

Plume 1 source areas are located cross-gradient to the WDA, and lateral migration of the plume has been negligible, as evidenced by results from a detailed reconnaissance event conducted in October 2003 (Plume 1 Northwest Groundwater Delineation Investigation). This investigation included performing cone penetrometer tests (CPTs) to characterize the subsurface lithology and collection of discrete groundwater samples within each hydrostratigraphic unit. A total of 14 locations were completed (RD-21 through RD-34), with discrete groundwater samples collected at 6 to 8 depths for volatile analyses by Method SW846 8260B and 8260B SIM. Results of this investigation are presented in Figure 4-1, showing that the only COIs detected were chlorofluorocarbons (CFC-11, CFC-113, and HCFC-123a), carbon disulfide, and 1,1-dichloroethane. The highest concentration was 240 micrograms per liter ( $\mu\text{g/L}$ ) of CFC-11 at location RD-33, at a depth of 46 to 48 feet below ground surface (bgs), which corresponds to the mid-portion of the Upper Aquifer. In the Lower Aquifer, 1,1-DCA was detected ( $1.2 \mu\text{g/L}$ ) at 61 to 63 feet bgs at RD-27 and carbon disulfide was detected ( $2.2 \mu\text{g/L}$ ) at RD-29 at 103 to 105 feet bgs.

In February 2004, based on the results of the October 2003 Plume 1 Northwest investigation described above, DuPont installed two groundwater monitoring wells to the east of the northeast portion of the WDA (see Figure 4-1). One well was installed within the Surficial Aquifer (MW-144), and the other was installed within the Upper Aquifer (MW-145). The purpose of installing these sentry wells was to confirm that the concentrations of constituents of interest (COIs) at the western boundary of Plume 1 were below the site-specific WQOs and to verify these findings through future groundwater monitoring. The results of two rounds of sampling indicate that CFC-113 is the only analyte detected in either well, aside from a tentatively identified compound (TIC) presumed to be dichlorotrifluoroethane (CFC-123). These results are summarized in Table 4-1. The highest concentration of CFC-113 (i.e., 270 parts per billion [ppb]) is a factor of five less than the associated WQO (i.e., 1200 ppb), which is the California Maximum Contaminant Limit (CMCL).

This MW-144 and -145 Surficial/Upper aquifer well cluster location will be augmented with two more wells installed within the L1 and L3 Aquifers during October – November 2004 as part of the Phase 2 Monitoring Well Installation and Well Decommissioning Work Plan (submitted to DTSC on September 21, 2004). All current and future wells in the sentry well cluster described above will continue to be monitored to verify that Plume 1 constituent concentrations are below WQOs along the eastern boundary of the WDA. Results from this WDA sentry well cluster will also be used to identify concentration trends, which may indicate the need for future remedial measures to protect groundwater quality within the WDA.

## 5.0 CONCLUSIONS

Information generated during the Phase I and Phase II ESAs led to the development of the following conclusions.

### Phase I ESA Results

- ❑ Based on a review of known sites with leaking underground storage tanks or hazardous material releases, there is a low potential for the Oakley Site or the WDA parcel to have been impacted from off-site sources.
- ❑ Based on an evaluation of historical records for the facility, and interviews with former employees, and on a review of aerial photographs from 1953 through 1996, there is a high degree of confidence that the WDA parcel has not been used for manufacturing purposes.
- ❑ It is possible that constituents related to the manufacturing area could be present in the soil in the WDA parcel because the former manufacturing area is directly adjacent to the WDA parcel. The Electrical Substation and the former temporary AST were identified as AOPCs.

### Phase II ESA Results

- ❑ Electrical Substation: All of the soil detections were below their respective residential RBSCs.
- ❑ Former Temporary Gasoline AST: The only detected analyte was DRO and the detected concentrations were below the residential screening value.
- ❑ Sierra-Crete® Road Base Sampling: The dioxin levels are below the 1,000 ppt level that the DTSC has used as a basis for action in residential soils. The Sierra-Crete® roads were removed in 2004 and due to the lack of migration of dioxins from the parent material to soil it is expected that the residual levels of dioxins in soil (if any) are insignificant.
- ❑ Dioxin/Furan/PCB Soil Sampling: The dioxin levels are orders of magnitude below the 1,000 ppt level that the DTSC has used as a basis for action in residential soils.
- ❑ Generalized Grid Sample Locations – Vineyard Blocks: All of the soil detections were below their respective residential RBSCs.
- ❑ Generalized Grid Sample Locations – Administration Building Area: All soil detections were below residential soil RBSCs.
- ❑ Generalized Grid Sample Locations – Manufacturing Support Area: With the exception of arsenic, all of the soil detections were below their respective residential RBSCs. Arsenic appears to be present at background concentrations in this area.

Groundwater

There is a low likelihood of cross-gradient migration of contaminated groundwater from the adjacent manufacturing areas located to the east of the WDA. DuPont will maintain a sentry well cluster in the Surficial, Upper, and Lower Aquifers to monitor groundwater quality immediately east of the WDA boundary. Results from these sentry wells will be used to determine whether future remedial actions may be needed to protect groundwater quality beneath the WDA.

Areas Available for Redevelopment

Based on the results of the soil samples summarized above, the WDA parcel requires no further investigation prior to redevelopment.

## 6.0 REFERENCES

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- San Francisco Regional Water Quality Control (SFRWQCB). 2001. Risk-based Screening Levels.
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- USEPA. 2002. Region 9 Preliminary Remediation Goals (PRGs). October. Tables

**Table 3-1 -- Electrical Substation Soil Data - Analytical Results**

Constituent	Sample ID:	RB-042_0FT	RB-043_0FT	RB-044_0FT	RB-045_0FT
<b>Soil Data (mg/kg)</b>					
1,1,1-Trichloroethane		0.002 U	0.003 U	0.003 U	0.000003 U
1,1,1,2-Tetrachloroethane		0.0009 U	0.001 U	0.0010 U	0.000001 U
1,1,2-Trichloroethane		0.0008 U	0.0010 U	0.0009 U	0.0000009 U
1,1-Dichloroethane		0.001 U	0.002 U	0.002 U	0.000002 U
1,1-Dichloroethene		0.002 U	0.003 U	0.003 U	0.000003 U
1,2-Dichloroethane		0.0007 U	0.0009 U	0.0008 U	0.0000008 U
1,2-Dichloropropane		0.0010 U	0.001 U	0.001 U	0.000001 U
1,4-Dichlorobenzene		0.0009 U	0.001 U	0.0010 U	0.0000010 U
2-Hexanone		0.0009 U	0.001 U	0.0010 U	0.000001 U
Acetone		0.04	0.05	0.04	0.02
Aroclor 1016		0.01 U	0.01 U	0.01 U	0.00001 U
Aroclor 1221		0.01 U	0.01 U	0.01 U	0.00001 U
Aroclor 1232		0.03 U	0.03 U	0.03 U	0.00003 U
Aroclor 1242		0.01 U	0.01 U	0.01 U	0.00001 U
Aroclor 1248		0.006 U	0.006 U	0.006 U	0.000006 U
Aroclor 1254		0.010 U	0.010 U	0.010 U	0.000010 U
Aroclor 1260		0.006 U	0.006 U	0.006 U	0.000006 U
Arsenic		2.20	1.90	1.80	1.90
Barium		49.10	43.40	49.80	42.05
Benzene		0.002 U	0.002 U	0.002 U	0.000002 U
Bromodichloromethane		0.0009 U	0.001 U	0.0010 U	0.000001 U
Bromoethane		0.001 U	0.002 U	0.001 U	0.000002 U
Bromoform		0.0010 U	0.001 U	0.001 U	0.000001 U
Cadmium		0.36	0.03 U	0.03 U	0.85
Carbon disulfide		0.002 U	0.003 U	0.002 U	0.000002 U
Carbon tetrachloride		0.002 U	0.003 U	0.002 U	0.000003 U
Chlorobenzene		0.001 U	0.001 U	0.001 U	0.000001 U
Chloroethane		0.002 U	0.002 U	0.002 U	0.000002 U
Chloroform		0.0008 U	0.0010 U	0.0009 U	0.0000009 U
Chloromethane		0.003 U	0.004 U	0.003 U	0.000003 U

**Table 3-1 -- Electrical Substation Soil Data - Analytical Results**

Constituent	Sample ID:	RB-042_0FT	RB-043_0FT	RB-044_0FT	RB-045_0FT
Chromium		18.40	15.60	16.50	15.25
Dibromochloromethane		0.0007 U	0.0010 U	0.0008 U	0.000009 U
Dichlorodifluoromethane		0.003 U	0.004 U	0.004 U	0.000004 U
Ethylbenzene		0.002 U	0.002 U	0.002 U	0.000002 U
Ethylene dibromide		0.0007 U	0.0009 U	0.0008 U	0.000008 U
Freon 11		0.003 U	0.003 U	0.003 U	0.000003 U
Freon 113		0.002 U	0.003 U	0.003 U	0.000003 U
Lead		21.60	22.70	14.90	61.90
Mercury		0.01	0.05	0.02	0.04
Methyl ethyl ketone		0.008	0.008	0.006	0.004
Methyl isobutyl ketone		0.004 U	0.006 U	0.005 U	0.000005 U
Methylene chloride		0.0009	0.001	0.0010	0.0005
Selenium		0.31 U	0.31 U	0.31 U	0.31 U
Silver		0.17 U	0.17 U	0.17 U	0.17 U
Styrene		0.001 U	0.002 U	0.002 U	0.000002 U
Tetrachloroethene		0.003 U	0.003 U	0.003 U	0.000003 U
Toluene		0.001 U	0.002 U	0.002 U	0.000002 U
Trichloroethene		0.002 U	0.003 U	0.002 U	0.000002 U
Vinyl chloride		0.002 U	0.003 U	0.003 U	0.000003 U
Xylenes		0.004 U	0.006 U	0.005 U	0.000005 U
cis-1,2-Dichloroethene		0.002 U	0.002 U	0.002 U	0.000002 U
cis-1,3-Dichloropropene		0.0007 U	0.0009 U	0.0008 U	0.000008 U
trans-1,2-Dichloroethene		0.002 U	0.003 U	0.002 U	0.000002 U
trans-1,3-Dichloropropene		0.0007 U	0.0009 U	0.0008 U	0.000008 U

Table 3-2 – Electrical Substation Soil Data - Statistical Summary and Comparison to RBCs (mg/kg)

CAS Number	Constituent	Number of Samples	Frequency of Detection	Maximum Non-Detected Value	Maximum Detected Value	Mean <sup>(1)</sup>	Detected?	Risk Based Screening Concentration <sup>(2)</sup>	Basis <sup>(3)</sup>	Exceed RBC?	COI? <sup>(4)</sup>
71-55-6	1,1,1-Trichloroethane	4		0.003		0.00099	No				
79-34-5	1,1,2,2-Tetrachloroethane	4		0.0012		0.00039	No				
79-00-5	1,1,2-Trichloroethane	4		0.001		0.00033	No				
75-34-3	1,1-Dichloroethane	4		0.0018		0.00060	No				
75-35-4	1,1-Dichloroethene	4		0.003		0.00099	No				
107-06-2	1,2-Dichloroethane	4		0.00093		0.00031	No				
78-87-5	1,2-Dichloropropane	4		0.0013		0.00042	No				
106-46-7	1,4-Dichlorobenzene	4		0.0012		0.00039	No				
591-78-6	2-Hexanone	4		0.0012		0.00039	No				
67-64-1	Acetone	4	100		0.049	0.039	Yes	1,570	NC	No	No
12674-11-2	Aroclor 1016	4		0.014		0.0053	No				
11104-28-2	Aroclor 1221	4		0.014		0.0053	No				
11141-16-5	Aroclor 1232	4		0.025		0.0094	No				
53469-21-9	Aroclor 1242	4		0.014		0.0053	No				
12672-29-6	Aroclor 1248	4		0.0063		0.0024	No				
11097-69-1	Aroclor 1254	4		0.0098		0.0037	No				
11096-82-5	Aroclor 1260	4		0.0058		0.0022	No				
7440-38-2	Arsenic	4	100		2.2	2.0	Yes	0.39	C	Yes	No <sup>(5)</sup>
7440-39-3	Barium	4	100		49.8	46	Yes	5,375	NC	No	No
71-43-2	Benzene	4		0.0024		0.00078	No				
75-27-4	Bromodichloromethane	4		0.0012		0.00039	No				
74-96-4	Bromoethane	4		0.0017		0.00055	No				
75-25-2	Bromoform	4		0.0013		0.00043	No				
7440-43-9	Cadmium	4	50	0.031	0.85	0.31	Yes	37	NC	No	No
75-15-0	Carbon disulfide	4		0.0027		0.00088	No				
56-23-5	Carbon tetrachloride	4		0.0028		0.00091	No				
108-90-7	Chlorobenzene	4		0.0014		0.00046	No				
75-00-3	Chloroethane	4		0.0024		0.00079	No				
67-66-3	Chloroform	4		0.001		0.00033	No				
74-87-3	Chloromethane	4		0.0036		0.0012	No				
7440-47-3	Chromium	4	100		18.4	16	Yes	1,000,000	NC	No	No
156-59-2	cis-1,2-Dichloroethene	4		0.0024		0.00079	No				
10061-01-5	cis-1,3-Dichloropropene	4		0.00088		0.00029	No				
124-48-1	Dibromochloromethane	4		0.00095		0.00031	No				
75-71-8	Dichlorodifluoromethane	4		0.0043		0.0014	No				
100-41-4	Ethylbenzene	4		0.0022		0.00073	No				
106-93-4	Ethylene dibromide	4		0.00088		0.00029	No				
75-69-4	Freon 11	4		0.0033		0.0011	No				
76-13-1	Freon 113	4		0.0031		0.0010	No				
7439-92-1	Lead	4	100		61.9	30	Yes	150	LS	No	No
7439-97-6	Mercury	4	100		0.045	0.028	Yes	23	NC	No	No
78-93-3	Methyl ethyl ketone	4	100		0.0082	0.0065	Yes	7,325	NC	No	No
108-10-1	Methyl isobutyl ketone	4		0.0056		0.0018	No				

**Table 3-2 – Electrical Substation Soil Data - Statistical Summary and Comparison to RBSCs (mg/kg)**

CAS Number	Constituent	Number of Samples	Frequency of Detection	Maximum Non-Detected Value	Maximum Detected Value	Mean <sup>(1)</sup>	Detected?	Risk Based Screening Concentration <sup>(2)</sup>	Basis <sup>(3)</sup>	Exceed RBSC?	COI? <sup>(4)</sup>
75-09-2	Methylene chloride	4	100		0.0012	0.00090	Yes	9.1	C	No	No
7782-49-2	Selenium	4		0.31		0.16	No				
7440-22-4	Silver	4		0.17		0.085	No				
100-42-5	Styrene	4		0.0017		0.00056	No				
127-18-4	Tetrachloroethene	4		0.0033		0.0011	No				
108-88-3	Toluene	4		0.0019		0.00061	No				
156-60-5	trans-1,2-Dichloroethene	4		0.0026		0.00086	No				
10061-02-6	trans-1,3-Dichloropropene	4		0.00091		0.00030	No				
79-01-6	Trichloroethene	4		0.0026		0.00086	No				
75-01-4	Vinyl chloride	4		0.003		0.00098	No				
1330-20-7	Xylenes	4		0.0058		0.0019	No				

<sup>(1)</sup> Non-detected data were assigned ½ of sample quantitation limit for the purpose of calculating summary statistics.

<sup>(2)</sup> RBSCs were obtained from the USEPA Region 9 Preliminary Remediation Goals (PRGs) (USEPA, 2002).

<sup>(3)</sup> C = Cancer and NC = Non-cancer, LS = CALEPA Leadsread Model.

<sup>(4)</sup> COI = Constituent of Interest

<sup>(5)</sup> Arsenic concentration is below background.

**Table 3-3 -- Former Temporary AST - Analytical Results**

Constituent	Sample ID:	ANT-S-OA-09(0-1)	ANT-S-OA-09(0-1)-DUP	ANT-S-OA-09(1-1.5)	ANT-S-OA-09(1-1.5)-DU	ANT-S-OA-09(4-6)
<b>Soil Data (mg/kg)</b>						
Benzene				0.01 U	0.01 U	0.01 U
Diesel Range Organics		1.80 U	200.00	49.00	1.70 U	1.80 U
Ethylbenzene				0.01 U	0.01 U	0.01 U
Gasoline Range Organic				0.10 U	0.13 U	0.10 U
Toluene				0.01 U	0.01 U	0.01 U
Xylenes (total)				0.02 U	0.03 U	0.02 U

**Table 3-4 – Former Temporary AST Soil Data - Statistical Summary and Comparison to RBSCs (mg/kg)**

CAS Number	Constituent	Number of Samples	Frequency of Detection	Maximum Non-Detected Value	Maximum Detected Value	Mean <sup>(1)</sup>	Detected?	Risk Based Screening Concentration	Basis <sup>(2)</sup>	Exceed RBSC?	COI? <sup>(3)</sup>
394878-87-0	Diesel Range Organics	5	0.00	0.01	0.00	0.0050	Yes	500 <sup>(4)</sup>	NC	No	No
100-41-4	Ethylbenzene	3	40	1.8	200	50	No				
86290-81-5	Gasoline Range Organic	3	0.00	0.010	0.00	0.0050	No				
108-88-3	Toluene	3	0.00	0.13	0.00	0.055	No				
1330-20-7	Xylenes (total)	3	0.00	0.010	0.00	0.0050	No				

<sup>(1)</sup> Non-detected data were assigned ½ of sample quantitation limit for the purpose of calculating summary statistics.

<sup>(2)</sup> C = Cancer and NC = Non-cancer, LS = CALEPA Leadsread Model.

<sup>(3)</sup> COI = Constituent of Interest

<sup>(4)</sup> Screening value is for TPH (middle distillates) and the residential direct contact exposure scenario (SFRWQCB, 2004).

Table 3-5 -- Generalized Grid Soil Data - Northern Vineyard Blocks - Analytical Results

Constituent	Sample ID:	RB-002_0FT	RB-002_3FT	RB-003_0FT	RB-003_3FT	RB-005_0FT	RB-005_3FT
<b>Soil Data (mg/kg)</b>							
1,1,1-Trichloroethane			0.002 U		0.002 U		0.002 U
1,1,2,2-Tetrachloroethane			0.0010 U		0.0009 U		0.0009 U
1,1,2-Trichloroethane			0.0008 U		0.0007 U		0.0008 U
1,1-Dichloroethane			0.002 U		0.001 U		0.001 U
1,1-Dichloroethene			0.002 U		0.002 U		0.002 U
1,2-Dichloroethane			0.0008 U		0.0007 U		0.0007 U
1,2-Dichloropropane			0.0010 U		0.0009 U		0.0010 U
1,4-Dichlorobenzene			0.0009 U		0.0009 U		0.0009 U
2,4,5-T		0.0008 U	0.0008 U	0.0008 U	0.0008 U		
2,4,5-TP (Silvex)		0.0006 U	0.0006 U	0.0006 U	0.0006 U		
2,4-D		0.006 U	0.006 U	0.006 U	0.006 U		
2,4-DB		0.002 U	0.002 U	0.002 U	0.002 U		
2-Hexanone			0.0010 U		0.0009 U		0.0009 U
4,4'-DDD		0.0002 U	0.0002 U	0.0002 U	0.0002 U		
4,4'-DDE		0.0002 U	0.0002 U	0.0002 U	0.0002 U		
4,4'-DDT		0.0004 U	0.0004 U	0.0004 U	0.0004 U		
Acetone			0.01		0.006		0.02
Aldrin		0.0008 U	0.0008 U	0.0008 U	0.0008 U		
Arsenic		2.00		1.80		1.70	
Azinphos-methyl		0.007 U	0.007 U	0.007 U	0.007 U		
Barium		46.80		28.40		41.40	
Benzene			0.002 U		0.002 U		0.002 U
Bromodichloromethane			0.0010 U		0.0009 U		0.0009 U
Bromoethane			0.001 U		0.001 U		0.001 U
Bromoform			0.001 U		0.0010 U		0.0010 U
Cadmium		0.03 U		0.03 U		0.03 U	
Carbon disulfide			0.002 U		0.002 U		0.002 U
Carbon tetrachloride			0.002 U		0.002 U		0.002 U
Chlorfenvinphos		0.005 U	0.005 U	0.005 U	0.005 U		
Chlorobenzene			0.001 U		0.0010 U		0.001 U

Table 3-5 -- Generalized Grid Soil Data - Northern Vineyard Blocks - Analytical Results

Constituent	Sample ID:	RB-002_0FT	RB-002_3FT	RB-003_0FT	RB-003_3FT	RB-005_0FT	RB-005_3FT
Chloroethane			0.002 U		0.002 U		0.002 U
Chloroform			0.0008 U		0.0008 U		0.0008 U
Chloromethane			0.003 U		0.003 U		0.003 U
Chlorpyrifos		0.005 U	0.005 U	0.005 U	0.005 U		
Chromium		18.50		17.90		17.30	
Coumaphos		0.007 U	0.007 U	0.007 U	0.007 U		
Dalapon		0.02 U	0.02 U	0.02 U	0.02 U		
Demeton		0.006 U	0.006 U	0.006 U	0.006 U		
Diazinon		0.008 U	0.008 U	0.008 U	0.008 U		
Dibromochloromethane			0.0008 U		0.0007 U		0.0007 U
Dicamba		0.002 U	0.002 U	0.002 U	0.002 U		
Dichlorodifluoromethane			0.003 U		0.003 U		0.003 U
Dichlorprop		0.006 U	0.006 U	0.006 U	0.006 U		
Dichlorvos		0.006 U	0.006 U	0.006 U	0.006 U		
Dieldrin		0.0008 U	0.0008 U	0.0008 U	0.0008 U		
Dimethoate		0.007 U	0.007 U	0.007 U	0.007 U		
Dinoseb		0.001 U	0.001 U	0.001 U	0.001 U		
Disulfoton		0.005 U	0.005 U	0.005 U	0.005 U		
Ehtyl Parathion		0.006 U	0.006 U	0.006 U	0.006 U		
Endosulfan I		0.0004 U	0.0004 U	0.0004 U	0.0004 U		
Endosulfan II		0.002 U	0.002 U	0.002 U	0.002 U		
Endosulfan sulfate		0.001 U	0.001	0.001	0.001 U		
Endrin		0.0001 U	0.0001 U	0.0001 U	0.0001 U		
Endrin aldehyde		0.0006 U	0.0006 U	0.0006 U	0.0006 U		
Endrin ketone		0.0005 U	0.0005 U	0.0005 U	0.0005 U		
Ethoprop		0.004 U	0.004 U	0.004 U	0.004 U		
Ethylbenzene			0.002 U		0.002 U		0.002 U
Ethylene dibromide			0.0007 U		0.0006 U		0.0007 U
Famphur		0.004 U	0.004 U	0.004 U	0.004 U		
Fensulfothion		0.01 U	0.01 U	0.01 U	0.01 U		
Fenthion		0.006 U	0.006 U	0.006 U	0.006 U		
Freon 11			0.003 U		0.002 U		0.003 U

**Table 3-5 -- Generalized Grid Soil Data - Northern Vineyard Blocks - Analytical Results**

Constituent	Sample ID:	RB-002_0FT	RB-002_3FT	RB-003_0FT	RB-003_3FT	RB-005_0FT	RB-005_3FT
Freon 113			0.003 U		0.002 U		0.002 U
Heptachlor		0.0003 U	0.0003 U	0.0003 U	0.0003 U		
Heptachlor epoxide		0.0005 U	0.0005 U	0.0005 U	0.0005 U		
Lead		2.20		8.10		2.00	
MCPA		2.50 U	2.50 U	2.50 U	2.50 U		
MCPP		2.00 U	2.00 U	2.00 U	2.00 U		
Malathion		0.005 U	0.005 U	0.005 U	0.005 U		
Mercury		0.007		0.007		0.01	
Merphos		0.006 U	0.006 U	0.006 U	0.006 U		
Methoxychlor		0.001 U	0.001 U	0.001 U	0.001 U		
Methyl ethyl ketone			0.003		0.002		0.003
Methyl isobutyl ketone			0.005 U		0.004 U		0.004 U
Methyl parathion		0.007 U	0.007 U	0.007 U	0.007 U		
Methylene chloride			0.0009 U		0.0008 U		0.0009 U
Mevinphos		0.009 U	0.009 U	0.009 U	0.009 U		
O,O,O-Triethyl Phosphorothioate		0.005 U	0.005 U	0.005 U	0.005 U		
Phorate		0.009 U	0.009 U	0.009 U	0.009 U		
Ronnel		0.006 U	0.006 U	0.006 U	0.006 U		
Selenium		0.31 U		0.31 U		0.31 U	
Silver		0.17 U		0.17 U		0.17 U	
Styrene			0.001 U		0.001 U		0.001 U
Sulfotepp		0.005 U	0.005 U	0.005 U	0.005 U		
Sulprofos		0.005 U	0.005 U	0.005 U	0.005 U		
Tetrachloroethene			0.003 U		0.002 U		0.003 U
Tetrachlorovinphos		0.007 U	0.007 U	0.007 U	0.007 U		
Thionazin		0.008 U	0.008 U	0.008 U	0.008 U		
Tokuthion		0.005 U	0.005 U	0.005 U	0.005 U		
Toluene			0.002 U		0.001 U		0.002 U
Toxaphene		0.03 U	0.03 U	0.03 U	0.03 U		
Trichloroethene			0.002 U		0.002 U		0.002 U
Trichloronate		0.005 U	0.005 U	0.005 U	0.005 U		
Vinyl chloride			0.002 U		0.002 U		0.002 U

**Table 3-5 -- Generalized Grid Soil Data - Northern Vineyard Blocks - Analytical Results**

Constituent	Sample ID:	RB-002_0FT	RB-002_3FT	RB-003_0FT	RB-003_3FT	RB-005_0FT	RB-005_3FT
Xylenes			0.005 U		0.004 U		0.005 U
alpha-BHC		0.0003 U	0.0003 U	0.0003 U	0.0003 U		
alpha-Chlordane		0.0002 U	0.0002 U	0.0002 U	0.0002 U		
beta-BHC		0.0003 U	0.0003 U	0.0003 U	0.0003 U		
cis-1,2-Dichloroethene			0.002 U		0.002 U		0.002 U
cis-1,3-Dichloropropene			0.0007 U		0.0006 U		0.0007 U
delta-BHC		0.0004 U	0.0004 U	0.0004 U	0.0004 U		
gamma-BHC (Lindane)		0.0005 U	0.0005 U	0.0005 U	0.0005 U		
gamma-Chlordane		0.0010 U	0.0010 U	0.0010 U	0.0010 U		
trans-1,2-Dichloroethene			0.002 U		0.002 U		0.002 U
trans-1,3-Dichloropropene			0.0007 U		0.0007 U		0.0007 U

**Table 3-6 – Generalized Grid Soil Data - Northern Vineyard Blocks - Statistical Summary and Comparison to RBSCs (mg/kg)**

CAS Number	Constituent	Number of Samples	Frequency of Detection	Maximum Non-Detected Value	Maximum Detected Value	Mean <sup>(1)</sup>	Detected?	Risk Based Screening Concentration <sup>(2)</sup>	Basis <sup>(3)</sup>	Exceed RBSC?	COI? <sup>(4)</sup>
71-55-6	1,1,1-Trichloroethane	3	0		0.0024		0.0012				
79-34-5	1,1,2,2-Tetrachloroethane	3	0		0.00096		0.00046				
79-00-5	1,1,2-Trichloroethane	3	0		0.00080		0.00039				
75-34-3	1,1-Dichloroethane	3	0		0.0015		0.00070				
75-35-4	1,1-Dichloroethene	3	0		0.0024		0.0012				
107-06-2	1,2-Dichloroethane	3	0		0.00075		0.00036				
78-87-5	1,2-Dichloropropane	3	0		0.0010		0.00049				
106-46-7	1,4-Dichlorobenzene	3	0		0.00094		0.00045				
93-76-5	2,4,5-T	4	0		0.00084		0.00042				
93-72-1	2,4,5-TP (Silvex)	4	0		0.00056		0.00028				
94-75-7	2,4-D	4	0		0.0063		0.0032				
94-82-6	2,4-DB	4	0		0.0022		0.0011				
591-78-6	2-Hexanone	3	0		0.00097		0.00047				
72-54-8	4,4'-DDD	4	0		0.00018		0.000090				
72-55-9	4,4'-DDE	4	0		0.00021		0.00010				
50-29-3	4,4'-DDT	4	0		0.00042		0.00021				
67-64-1	Acetone	3	3	100		0.022	0.013	1,570	NC	No	No
309-00-2	Aldrin	4	0		0.00083		0.00041				
319-84-6	alpha-BHC	4	0		0.00025		0.00013				
5103-71-9	alpha-Chlordane	4	0		0.00019		0.00010				
7440-38-2	Arsenic	3	3	100		2.0	1.8	0.39	C	Yes	No <sup>(5)</sup>
86-50-0	Azinphos-methyl	4	0		0.0071		0.0036				
7440-39-3	Barium	3	3	100		47	39	5,375	NC	No	No
71-43-2	Benzene	3	0		0.0019		0.00090				
319-85-7	beta-BHC	4	0		0.00026		0.00013				
75-27-4	Bromodichloromethane	3	0		0.00095		0.00046				
74-96-4	Bromoethane	3	0		0.0013		0.00063				
75-25-2	Bromoform	3	0		0.0011		0.00051				
7440-43-9	Cadmium	3	0		0.031		0.016				
75-15-0	Carbon disulfide	3	0		0.0021		0.0010				
56-23-5	Carbon tetrachloride	3	0		0.0022		0.0011				
470-90-6	Chlorfenvinphos	4	0		0.0054		0.0027				
108-90-7	Chlorobenzene	3	0		0.0012		0.00055				
75-00-3	Chloroethane	3	0		0.0019		0.00092				
67-66-3	Chloroform	3	0		0.00082		0.00040				
74-87-3	Chloromethane	3	0		0.0029		0.0014				
2921-88-2	Chlorpyrifos	4	0		0.0045		0.0023				

**Table 3-6 – Generalized Grid Soil Data - Northern Vineyard Blocks - Statistical Summary and Comparison to RBSCs (mg/kg)**

CAS Number	Constituent	Number of Samples	Frequency of Detection	Maximum Non-Detected Value	Maximum Detected Value	Mean <sup>(1)</sup>	Detected?	Risk Based Screening Concentration <sup>(2)</sup>	Basis <sup>(3)</sup>	Exceed RBSC?	COI? <sup>(4)</sup>
7440-47-3	Chromium	3	3	100		19	18	1,000,000	NC	No	No
156-59-2	cis-1,2-Dichloroethene	3	0		0.0019		0.00092				
10061-01-5	cis-1,3-Dichloropropene	3	0		0.00071		0.00034				
56-72-4	Coumaphos	4	0		0.0067		0.0034				
75-99-0	Dalapon	4	0		0.023		0.012				
319-86-8	delta-BHC	4	0		0.00037		0.00018				
8065-48-3	Demeton	4	0		0.0062		0.0031				
333-41-5	Diazinon	4	0		0.0079		0.0040				
124-48-1	Dibromochloromethane	3	0		0.00076		0.00037				
1918-00-9	Dicamba	4	0		0.0016		0.00080				
75-71-8	Dichlorodifluoromethane	3	0		0.0034		0.0016				
120-36-5	Dichlorprop	4	0		0.0058		0.0029				
62-73-7	Dichlorvos	4	0		0.0063		0.0032				
60-57-1	Dieldrin	4	0		0.00083		0.00041				
60-51-5	Dimethoate	4	0		0.0067		0.0034				
88-85-7	Dinoseb	4	0		0.0014		0.00070				
298-04-4	Disulfoton	4	0		0.0050		0.0025				
56-38-2	Ehtyl Parathion	4	0		0.0057		0.0029				
959-98-8	Endosulfan I	4	0		0.00036		0.00018				
33213-65-9	Endosulfan II	4	0		0.0016		0.00080				
1031-07-8	Endosulfan sulfate	4	2	50	0.0013	0.00130	0.00098	367 <sup>(6)</sup>	NC	No	No
72-20-8	Endrin	4	0		0.00013		0.000064				
7421-93-4	Endrin aldehyde	4	0		0.00063		0.00031				
53494-70-5	Endrin ketone	4	0		0.00054		0.00027				
13194-48-4	Ethoprop	4	0		0.0044		0.0022				
100-41-4	Ethylbenzene	3	0		0.0017		0.00083				
106-93-4	Ethylene dibromide	3	0		0.00071		0.00034				
52-85-7	Famphur	4	0		0.0044		0.0022				
115-90-2	Fensulfothion	4	0		0.013		0.0065				
55-38-9	Fenthion	4	0		0.0055		0.0028				
75-69-4	Freon 11	3	0		0.0026		0.0013				
76-13-1	Freon 113	3	0		0.0025		0.0012				
58-89-9	gamma-BHC (Lindane)	4	0		0.00046		0.00023				
5103-74-2	gamma-Chlordane	4	0		0.00098		0.00049				
76-44-8	Heptachlor	4	0		0.00027		0.00014				
1024-57-3	Heptachlor epoxide	4	0		0.00053		0.00026				
7439-92-1	Lead	3	3	100		8.1	4.1	150	LS	No	No
121-75-5	Malathion	4	0		0.0045		0.0023				

**Table 3-6 – Generalized Grid Soil Data - Northern Vineyard Blocks - Statistical Summary and Comparison to RBSCs (mg/kg)**

CAS Number	Constituent	Number of Samples	Frequency of Detection	Maximum Non-Detected Value	Maximum Detected Value	Mean <sup>(1)</sup>	Detected?	Risk Based Screening Concentration <sup>(2)</sup>	Basis <sup>(3)</sup>	Exceed RBSC?	COI? <sup>(4)</sup>
94-74-6	MCPA	4	0		2.5		1.3				
7085-19-0	MCPP	4	0		2.0		1.0				
7439-97-6	Mercury	3	3	100		0.013	0.0091	23	NC	No	No
150-50-5	Merphos	4	0		0.0057		0.0029				
72-43-5	Methoxychlor	4	0		0.0012		0.00060				
78-93-3	Methyl ethyl ketone	3	3	100		0.0034	0.0026	7,325	NC	No	No
108-10-1	Methyl isobutyl ketone	3	0		0.0045		0.0022				
298-00-0	Methyl parathion	4	0		0.0067		0.0034				
75-09-2	Methylene chloride	3	0		0.00089		0.00043				
7786-34-7	Mevinphos	4	0		0.0086		0.0043				
126-68-1	O,O,O-Triethyl Phosphorothioate	4	0		0.0046		0.0023				
298-02-2	Phorate	4	0		0.0085		0.0043				
299-84-3	Ronnel	4	0		0.0058		0.0029				
7782-49-2	Selenium	3	0		0.31		0.16				
7440-22-4	Silver	3	0		0.17		0.085				
100-42-5	Styrene	3	0		0.0014		0.00065				
3689-24-5	Sulfotepp	4	0		0.0047		0.0024				
35400-43-2	Sulprofos	4	0		0.0053		0.0027				
127-18-4	Tetrachloroethene	3	0		0.0026		0.0013				
961-11-5	Tetrachlorovinphos	4	0		0.0068		0.0034				
297-97-2	Thionazin	4	0		0.0084		0.0042				
34643-46-4	Tokuthion	4	0		0.0048		0.0024				
108-88-3	Toluene	3	0		0.0015		0.00073				
8001-35-2	Toxaphene	4	0		0.034		0.017				
156-60-5	trans-1,2-Dichloroethene	3	0		0.0021		0.0010				
10061-02-6	trans-1,3-Dichloropropene	3	0		0.00073		0.00035				
79-01-6	Trichloroethene	3	0		0.0021		0.0010				
327-98-0	Trichloronate	4	0		0.0046		0.0023				
75-01-4	Vinyl chloride	3	0		0.0024		0.0012				
1330-20-7	Xylenes	3	0		0.0046		0.0022				

<sup>(1)</sup> Non-detected data were assigned 1/2 of sample quantitation limit for the purpose of calculating summary statistics.

<sup>(2)</sup> RBSCs were obtained from the USEPA Region 9 PRGs (USEPA, 2002).

<sup>(3)</sup> C = Cancer and NC = Non-cancer, LS = CALEPA Leadsread Model.

<sup>(4)</sup> COI = Constituent of Interest

<sup>(5)</sup> Arsenic concentration is below background

<sup>(6)</sup> RBSC for Endosulfan sulfate was assumed to be the endosulfan value.

Table 3-7 -- Generalized Grid Soil Data - Administration Building Area - Analytical Results

Constituent	Sample ID:	RB-007_0FT	RB-007_3FT
<b>Soil Data (mg/kg)</b>			
1,1,1-Trichloroethane			0.003 U
1,1,1,2-Tetrachloroethane			0.001 U
1,1,2-Trichloroethane			0.0009 U
1,1-Dichloroethane			0.002 U
1,1-Dichloroethene			0.003 U
1,2-Dichloroethane			0.0009 U
1,2-Dichloropropane			0.001 U
1,4-Dichlorobenzene			0.001 U
2-Hexanone			0.001 U
Acetone			0.006 U
Arsenic		1.40	
Barium		28.00	
Benzene			0.002 U
Bromodichloromethane			0.001 U
Bromoethane			0.002 U
Bromoform			0.001 U
Cadmium		0.03 U	
Carbon disulfide			0.002 U
Carbon tetrachloride			0.003 U
Chlorobenzene			0.001 U
Chloroethane			0.002 U
Chloroform			0.0010 U
Chloromethane			0.003 U
Chromium		13.50	
Dibromochloromethane			0.0009 U
Dichlorodifluoromethane			0.004 U
Ethylbenzene			0.002 U
Ethylene dibromide			0.0008 U
Freon 11			0.003 U
Freon 113			0.003 U

**Table 3-7 -- Generalized Grid Soil Data - Administration Building Area - Analytical Results**

Constituent	Sample ID:	RB-007_0FT	RB-007_3FT
Lead		3.80	
Mercury		0.009	
Methyl ethyl ketone			0.002
Methyl isobutyl ketone			0.005 U
Methylene chloride			0.0010 U
Selenium		0.40	
Silver		0.17 U	
Styrene			0.002 U
Tetrachloroethene			0.003 U
Toluene			0.002 U
Trichloroethene			0.002 U
Vinyl chloride			0.003 U
Xylenes			0.005 U
cis-1,2-Dichloroethene			0.002 U
cis-1,3-Dichloropropene			0.0008 U
trans-1,2-Dichloroethene			0.002 U
trans-1,3-Dichloropropene			0.0008 U

**Table 3-8 – Generalized Grid Soil Data - Administration Building Area - Statistical Summary and Comparison to RBSCs**  
(mg/kg)

CAS Number	Constituent	Number of Samples	Frequency of Detection	Maximum Non-Detected Value	Maximum Detected Value	Mean <sup>(1)</sup>	Detected?	Risk Based Screening Concentration <sup>(2)</sup>	Basis <sup>(3)</sup>	Exceed RBSC?	COI? <sup>(4)</sup>
71-55-6	1,1,1-Trichloroethane	1		0.0028		0.0014	No				
79-34-5	1,1,2,2-Tetrachloroethane	1		0.0011		0.0006	No				
79-00-5	1,1,2-Trichloroethane	1		0.00092		0.00046	No				
75-34-3	1,1-Dichloroethane	1		0.0017		0.0009	No				
75-35-4	1,1-Dichloroethene	1		0.0027		0.0014	No				
107-06-2	1,2-Dichloroethane	1		0.00086		0.00043	No				
78-87-5	1,2-Dichloropropane	1		0.0012		0.00060	No				
106-46-7	1,4-Dichlorobenzene	1		0.0011		0.00055	No				
591-78-6	2-Hexanone	1		0.0011		0.00055	No				
67-64-1	Acetone	1		0.0061		0.0031	No				
7440-38-2	Arsenic	1	100		1	1	Yes	0.39	C	Yes	No <sup>(5)</sup>
7440-39-3	Barium	1	100		28	28	Yes	5,375	NC	No	
71-43-2	Benzene	1		0.0022		0.0011	No				
75-27-4	Bromodichloromethane	1		0.0011		0.0006	No				
74-96-4	Bromoethane	1		0.0015		0.0008	No				
75-25-2	Bromoform	1		0.0012		0.0006	No				
7440-43-9	Cadmium	1		0.031		0.016	No				
75-15-0	Carbon disulfide	1		0.0024		0.0012	No				
56-23-5	Carbon tetrachloride	1		0.0025		0.0013	No				
108-90-7	Chlorobenzene	1		0.0013		0.0007	No				
75-00-3	Chloroethane	1		0.0022		0.0011	No				
67-66-3	Chloroform	1		0.00095		0.00048	No				
74-87-3	Chloromethane	1		0.0033		0.0017	No				
7440-47-3	Chromium	1	100		14	14	Yes	1,000,000	NC	No	
156-59-2	cis-1,2-Dichloroethene	1		0.0022		0.0011	No				
10061-01-5	cis-1,3-Dichloropropene	1		0.00081		0.00041	No				
124-48-1	Dibromochloromethane	1		0.00087		0.00044	No				
75-71-8	Dichlorodifluoromethane	1		0.0039		0.0020	No				
100-41-4	Ethylbenzene	1		0.0020		0.0010	No				
106-93-4	Ethylene dibromide	1		0.00081		0.00041	No				
75-69-4	Freon 11	1		0.0030		0.0015	No				
76-13-1	Freon 113	1		0.0029		0.0015	No				
7439-92-1	Lead	1	100		3.8	3.8	Yes	150	LS	No	
7439-97-6	Mercury	1	100		0.0086	0.0086	Yes	23	NC	No	
78-93-3	Methyl ethyl ketone	1	100		0.0018	0.0018	Yes	7,325	NC	No	
108-10-1	Methyl isobutyl ketone	1		0.0052		0.0026	No				
75-09-2	Methylene chloride	1		0.0010		0.0005	No				

**Table 3-8 – Generalized Grid Soil Data - Administration Building Area - Statistical Summary and Comparison to RBSCs (mg/kg)**

CAS Number	Constituent	Number of Samples	Frequency of Detection	Maximum Non-Detected Value	Maximum Detected Value	Mean <sup>(1)</sup>	Detected?	Risk Based Screening Concentration <sup>(2)</sup>	Basis <sup>(3)</sup>	Exceed RBSC?	COI? <sup>(4)</sup>
7782-49-2	Selenium	1	100		0.40	0.40	No	391	NC	No	
7440-22-4	Silver	1		0.17		0.085	No				
100-42-5	Styrene	1		0.0016		0.00080	No				
127-18-4	Tetrachloroethene	1		0.0030		0.0015	No				
108-88-3	Toluene	1		0.0018		0.0009	No				
156-60-5	trans-1,2-Dichloroethene	1		0.0024		0.0012	No				
10061-02-6	trans-1,3-Dichloropropene	1		0.00084		0.00042	No				
79-01-6	Trichloroethene	1		0.0024		0.0012	No				
75-01-4	Vinyl chloride	1		0.0027		0.0014	No				
1330-20-7	Xylenes	1		0.0053		0.0027	No				

<sup>(1)</sup> Non-detected data were assigned ½ of sample quantitation limit for the purpose of calculating summary statistics.

<sup>(2)</sup> RBSCs were obtained from the USEPA Region 9 PRGs (USEPA, 2002).

<sup>(3)</sup> C = Cancer and NC = Non-cancer, LS = CALEPA Leadsread Model.

<sup>(4)</sup> COI = Constituent of Interest

<sup>(5)</sup> Arsenic concentration is below background.

Table 3-9 -- Generalized Grid Soil Data - Manufacturing Support Area and Southern Vineyard Blocks - Analytical Results

Constituent	Sample ID:	EXP-01_0FT	EXP-02_0FT	EXP-06_0FT	RB-006_0FT	RB-006_3FT	RB-009_0FT
<b>Soil Data (mg/kg)</b>							
1,1,1-Trichloroethane		0.000006 U	0.006 U	0.006 U		0.003 U	
1,1,2,2-Tetrachloroethane		0.000006 U	0.006 U	0.006 U		0.0010 U	
1,1,2-Trichloroethane		0.000006 U	0.006 U	0.006 U		0.0009 U	
1,1-Dichloroethane		0.000006 U	0.006 U	0.006 U		0.002 U	
1,1-Dichloroethene		0.000006 U	0.006 U	0.006 U		0.003 U	
1,2-Dichloroethane		0.000006 U	0.006 U	0.006 U		0.0008 U	
1,2-Dichloropropane		0.000006 U	0.006 U	0.006 U		0.001 U	
1,4-Dichlorobenzene		0.000006 U	0.006 U	0.006 U		0.0010 U	
2-Hexanone		0.00001 U	0.01 U	0.01 U		0.001 U	
Acetone		0.009	0.02	0.02		0.02	
Arsenic		2.50	3.60	1.80	1.70		2.30
Barium		88.20	98.80	38.00	33.80		52.10
Benzene		0.000006 U	0.006 U	0.006 U		0.002 U	
Bromodichloromethane		0.000006 U	0.006 U	0.006 U		0.0010 U	
Bromoethane						0.002 U	
Bromoform		0.000006 U	0.006 U	0.006 U		0.001 U	
Cadmium		0.23 U	0.23 U	0.25 U	0.03 U		0.03 U
Carbon disulfide		0.00001 U	0.01 U	0.01 U		0.002 U	
Carbon tetrachloride		0.000006 U	0.006 U	0.006 U		0.002 U	
Chlorobenzene		0.000006 U	0.006 U	0.006 U		0.001 U	
Chloroethane		0.000006 U	0.006 U	0.006 U		0.002 U	
Chloroform		0.000006 U	0.006 U	0.006 U		0.0009 U	
Chloromethane		0.000006 U	0.006 U	0.006 U		0.003 U	
Chromium		25.85	28.50	18.70	14.80		18.50
Dibromochloromethane		0.000006 U	0.006 U	0.006 U		0.0008 U	
Dichlorodifluoromethane		0.000006 U	0.006 U	0.006 U		0.004 U	
Ethylbenzene		0.000006 U	0.006 U	0.006 U		0.002 U	
Ethylene dibromide		0.00001 U	0.01 U	0.01 U		0.0008 U	
Freon 11		0.000006 U	0.006 U	0.006 U		0.003 U	
Freon 113		0.00001 U	0.01 U	0.01 U		0.003 U	

**Table 3-9 -- Generalized Grid Soil Data - Manufacturing Support Area and Southern Vineyard Blocks - Analytical Results**

Constituent	Sample ID:	EXP-01_0FT	EXP-02_0FT	EXP-06_0FT	RB-006_0FT	RB-006_3FT	RB-009_0FT
Lead		3.45	4.80	2.30	9.80		4.80
Manganese		372.50	370.00	169.00			
Mercury		0.05 U	0.05 U	0.05 U	0.009		0.008
Methyl ethyl ketone		0.00001 U	0.01 U	0.01 U		0.005	
Methyl isobutyl ketone		0.00001 U	0.01 U	0.01 U		0.005 U	
Methylene chloride		0.00001 U	0.01 U	0.01 U		0.0010 U	
Selenium		0.57 U	0.56 U	0.62 U	0.31 U		0.31 U
Silver		0.57 U	0.56 U	0.62 U	0.17 U		0.17 U
Styrene		0.000006 U	0.006 U	0.006 U		0.002 U	
Tetrachloroethene		0.000006 U	0.006 U	0.006 U		0.003 U	
Thallium		1.10 U	1.10 U	1.20 U			
Toluene		0.000006 U	0.006 U	0.006 U		0.002 U	
Trichloroethene		0.000006 U	0.006 U	0.006 U		0.002 U	
Vanadium		39.10	46.10	31.50			
Vinyl chloride		0.000006 U	0.006 U	0.006 U		0.003 U	
Xylenes		0.000006 U	0.006 U	0.006 U		0.005 U	
cis-1,2-Dichloroethene		0.000006 U	0.006 U	0.006 U		0.002 U	
cis-1,3-Dichloropropene		0.000006 U	0.006 U	0.006 U		0.0008 U	
trans-1,2-Dichloroethene		0.000006 U	0.006 U	0.006 U		0.002 U	
trans-1,3-Dichloropropene		0.000006 U	0.006 U	0.006 U		0.0008 U	

Table 3-9 -- Generalized Grid Soil Data - Manufacturing Support Area and Southern Vineyard Blocks - Analytical Results

Constituent	Sample ID:	RB-009_3FT	RB-010_0FT	RB-010_3FT	RB-011_0FT	RB-011_3FT	RB-012_0FT
<b>Soil Data (mg/kg)</b>							
1,1,1-Trichloroethane		0.002 U		0.003 U		0.006 U	
1,1,2,2-Tetrachloroethane		0.0009 U		0.001 U		0.002 U	
1,1,2-Trichloroethane		0.0008 U		0.0009 U		0.002 U	
1,1-Dichloroethane		0.001 U		0.002 U		0.004 U	
1,1-Dichloroethene		0.002 U		0.003 U		0.006 U	
1,2-Dichloroethane		0.0007 U		0.0009 U		0.002 U	
1,2-Dichloropropane		0.0010 U		0.001 U		0.003 U	
1,4-Dichlorobenzene		0.0009 U		0.001 U		0.002 U	
2-Hexanone		0.0009 U		0.001 U		0.002 U	
Acetone		0.02		0.03		0.08	
Arsenic			1.50		2.10		1.50
Barium			40.90		41.70		34.80
Benzene		0.002 U		0.002 U		0.005 U	
Bromodichloromethane		0.0009 U		0.001 U		0.002 U	
Bromoethane		0.001 U		0.002 U		0.003 U	
Bromoform		0.0010 U		0.001 U		0.003 U	
Cadmium			0.03 U		0.03 U		0.03 U
Carbon disulfide		0.002 U		0.002 U		0.005 U	
Carbon tetrachloride		0.002 U		0.003 U		0.006 U	
Chlorobenzene		0.001 U		0.001 U		0.003 U	
Chloroethane		0.002 U		0.002 U		0.005 U	
Chloroform		0.0008 U		0.0009 U		0.002 U	
Chloromethane		0.003 U		0.003 U		0.007 U	
Chromium			18.00		18.40		10.90
Dibromochloromethane		0.0007 U		0.0009 U		0.002 U	
Dichlorodifluoromethane		0.003 U		0.004 U		0.009 U	
Ethylbenzene		0.002 U		0.002 U		0.004 U	
Ethylene dibromide		0.0007 U		0.0008 U		0.002 U	
Freon 11		0.003 U		0.003 U		0.007 U	
Freon 113		0.002 U		0.003 U		0.006 U	

Table 3-9 -- Generalized Grid Soil Data - Manufacturing Support Area and Southern Vineyard Blocks - Analytical Results

Constituent	Sample ID:	RB-009_3FT	RB-010_0FT	RB-010_3FT	RB-011_0FT	RB-011_3FT	RB-012_0FT
Lead			2.90		25.40		2.80
Manganese							
Mercury			0.07		0.01		0.005
Methyl ethyl ketone		0.003		0.005		0.01	
Methyl isobutyl ketone		0.004 U		0.005 U		0.01 U	
Methylene chloride		0.0009 U		0.0010 U		0.002 U	
Selenium			0.31 U		0.31 U		0.31 U
Silver			0.17 U		0.17 U		0.17 U
Styrene		0.001 U		0.002 U		0.004 U	
Tetrachloroethene		0.003 U		0.003 U		0.007 U	
Thallium							
Toluene		0.002 U		0.002 U		0.004 U	
Trichloroethene		0.002 U		0.002 U		0.005 U	
Vanadium							
Vinyl chloride		0.002 U		0.003 U		0.006 U	
Xylenes		0.004 U		0.005 U		0.01 U	
cis-1,2-Dichloroethene		0.002 U		0.002 U		0.005 U	
cis-1,3-Dichloropropene		0.0007 U		0.0008 U		0.002 U	
trans-1,2-Dichloroethene		0.002 U		0.002 U		0.005 U	
trans-1,3-Dichloropropene		0.0007 U		0.0008 U		0.002 U	

Table 3-9 -- Generalized Grid Soil Data - Manufacturing Support Area and Southern Vineyard Blocks - Analytical Results

Constituent	Sample ID:	RB-012_3FT	RB-016_0FT	RB-016_3FT	RB-017_0FT	RB-017_3FT	RB-018_0FT
<b>Soil Data (mg/kg)</b>							
1,1,1-Trichloroethane		0.003 U		0.002 U		0.002 U	
1,1,2,2-Tetrachloroethane		0.0010 U		0.0009 U		0.0009 U	
1,1,2-Trichloroethane		0.0009 U		0.0008 U		0.0008 U	
1,1-Dichloroethane		0.002 U		0.001 U		0.001 U	
1,1-Dichloroethene		0.003 U		0.002 U		0.002 U	
1,2-Dichloroethane		0.0008 U		0.0007 U		0.0007 U	
1,2-Dichloropropane		0.001 U		0.0010 U		0.0010 U	
1,4-Dichlorobenzene		0.0010 U		0.0009 U		0.0009 U	
2-Hexanone		0.0010 U		0.0009 U		0.0010 U	
Acetone		0.03		0.01		0.01	
Arsenic			1.90		1.90		1.80
Barium			58.30		44.50		39.30
Benzene		0.002 U		0.002 U		0.002 U	
Bromodichloromethane		0.0010 U		0.0009 U		0.0009 U	
Bromoethane		0.001 U		0.001 U		0.001 U	
Bromoform		0.001 U		0.0010 U		0.0010 U	
Cadmium			0.03 U		0.03 U		0.03 U
Carbon disulfide		0.002 U		0.002 U		0.002 U	
Carbon tetrachloride		0.002 U		0.002 U		0.002 U	
Chlorobenzene		0.001 U		0.001 U		0.001 U	
Chloroethane		0.002 U		0.002 U		0.002 U	
Chloroform		0.0009 U		0.0008 U		0.0008 U	
Chloromethane		0.003 U		0.003 U		0.003 U	
Chromium			17.60		17.70		16.90
Dibromochloromethane		0.0008 U		0.0007 U		0.0008 U	
Dichlorodifluoromethane		0.004 U		0.003 U		0.003 U	
Ethylbenzene		0.002 U		0.002 U		0.002 U	
Ethylene dibromide		0.0008 U		0.0007 U		0.0007 U	
Freon 11		0.003 U		0.003 U		0.003 U	
Freon 113		0.003 U		0.002 U		0.003 U	

**Table 3-9 -- Generalized Grid Soil Data - Manufacturing Support Area and Southern Vineyard Blocks - Analytical Results**

Constituent	Sample ID:	RB-012_3FT	RB-016_0FT	RB-016_3FT	RB-017_0FT	RB-017_3FT	RB-018_0FT
Lead			75.20		3.10		4.70
Manganese							
Mercury			0.02		0.01		0.009
Methyl ethyl ketone		0.006		0.001 U		0.001 U	
Methyl isobutyl ketone		0.005 U		0.004 U		0.004 U	
Methylene chloride		0.0010 U		0.0009 U		0.0009 U	
Selenium			0.31 U		0.31 U		0.31 U
Silver			0.17 U		0.17 U		0.17 U
Styrene		0.002 U		0.001 U		0.001 U	
Tetrachloroethene		0.003 U		0.003 U		0.003 U	
Thallium							
Toluene		0.002 U		0.002 U		0.002 U	
Trichloroethene		0.002 U		0.002 U		0.002 U	
Vanadium							
Vinyl chloride		0.003 U		0.002 U		0.002 U	
Xylenes		0.005 U		0.005 U		0.005 U	
cis-1,2-Dichloroethene		0.002 U		0.002 U		0.002 U	
cis-1,3-Dichloropropene		0.0008 U		0.0007 U		0.0007 U	
trans-1,2-Dichloroethene		0.002 U		0.002 U		0.002 U	
trans-1,3-Dichloropropene		0.0008 U		0.0007 U		0.0007 U	

Table 3-9 -- Generalized Grid Soil Data - Manufacturing Support Area and Southern Vineyard Blocks - Analytical Results

Constituent	Sample ID:	RB-018_3FT	RB-019_0FT	RB-019_3FT	RB-021_0FT	RB-021_3FT	RB-046_0FT
<b>Soil Data (mg/kg)</b>							
1,1,1-Trichloroethane		0.003 U		0.002 U		0.002 U	
1,1,2,2-Tetrachloroethane		0.001 U		0.0009 U		0.0009 U	
1,1,2-Trichloroethane		0.0009 U		0.0008 U		0.0007 U	
1,1-Dichloroethane		0.002 U		0.001 U		0.001 U	
1,1-Dichloroethene		0.003 U		0.002 U		0.002 U	
1,2-Dichloroethane		0.0009 U		0.0007 U		0.0007 U	
1,2-Dichloropropane		0.001 U		0.0010 U		0.0009 U	
1,4-Dichlorobenzene		0.001 U		0.0009 U		0.0008 U	
2-Hexanone		0.001 U		0.0010 U		0.0009 U	
Acetone		0.02		0.010		0.02	
Arsenic			1.40		1.70		1.60
Barium			33.70		38.10		34.90
Benzene		0.002 U		0.002 U		0.002 U	
Bromodichloromethane		0.001 U		0.0009 U		0.0009 U	
Bromoethane		0.002 U		0.001 U		0.001 U	
Bromoform		0.001 U		0.0010 U		0.0010 U	
Cadmium			0.03 U		0.03 U		0.03 U
Carbon disulfide		0.003 U		0.002 U		0.002 U	
Carbon tetrachloride		0.003 U		0.002 U		0.002 U	
Chlorobenzene		0.001 U		0.001 U		0.0010 U	
Chloroethane		0.002 U		0.002 U		0.002 U	
Chloroform		0.0010 U		0.0008 U		0.0007 U	
Chloromethane		0.003 U		0.003 U		0.003 U	
Chromium			14.70		17.90		15.10
Dibromochloromethane		0.0009 U		0.0008 U		0.0007 U	
Dichlorodifluoromethane		0.004 U		0.003 U		0.003 U	
Ethylbenzene		0.002 U		0.002 U		0.002 U	
Ethylene dibromide		0.0008 U		0.0007 U		0.0006 U	
Freon 11		0.003 U		0.003 U		0.002 U	
Freon 113		0.003 U		0.003 U		0.002 U	

Table 3-9 -- Generalized Grid Soil Data - Manufacturing Support Area and Southern Vineyard Blocks - Analytical Results

Constituent	Sample ID:	RB-018_3FT	RB-019_0FT	RB-019_3FT	RB-021_0FT	RB-021_3FT	RB-046_0FT
Lead			1.70		2.10		5.00
Manganese							
Mercury			0.008		0.004 U		0.006
Methyl ethyl ketone		0.002 U		0.001 U		0.005	
Methyl isobutyl ketone		0.005 U		0.004 U		0.004 U	
Methylene chloride		0.002		0.0010		0.0008 U	
Selenium			0.31 U		0.31 U		0.31 U
Silver			0.17 U		0.17 U		0.17 U
Styrene		0.002 U		0.001 U		0.001 U	
Tetrachloroethene		0.003 U		0.003 U		0.002 U	
Thallium							
Toluene		0.002 U		0.002 U		0.001 U	
Trichloroethene		0.003 U		0.002 U		0.002 U	
Vanadium							
Vinyl chloride		0.003 U		0.002 U		0.002 U	
Xylenes		0.005 U		0.005 U		0.004 U	
cis-1,2-Dichloroethene		0.002 U		0.002 U		0.002 U	
cis-1,3-Dichloropropene		0.0008 U		0.0007 U		0.0006 U	
trans-1,2-Dichloroethene		0.003 U		0.002 U		0.002 U	
trans-1,3-Dichloropropene		0.0009 U		0.0007 U		0.0007 U	

Table 3-9 -- Generalized Grid Soil Data - Manufacturing Support Area and Southern Vineyard Blocks - Analytical Results

Constituent	Sample ID:	RB-046_5FT	RB-047_0FT	RB-047_5FT	RB-048_0FT	RB-048_5FT	RB-049_0FT
<b>Soil Data (mg/kg)</b>							
1,1,1-Trichloroethane							
1,1,1,2-Tetrachloroethane							
1,1,2-Trichloroethane							
1,1-Dichloroethane							
1,1-Dichloroethene							
1,2-Dichloroethane							
1,2-Dichloropropane							
1,4-Dichlorobenzene							
2-Hexanone							
Acetone							
Arsenic		2.10	2.60	4.00	2.00	2.90	2.70
Barium		45.00	84.30	70.40	62.90	58.70	62.60
Benzene							
Bromodichloromethane							
Bromoethane							
Bromoform							
Cadmium		0.03 U					
Carbon disulfide							
Carbon tetrachloride							
Chlorobenzene							
Chloroethane							
Chloroform							
Chloromethane							
Chromium		19.30	21.90	26.50	15.80	19.70	21.10
Dibromochloromethane							
Dichlorodifluoromethane							
Ethylbenzene							
Ethylene dibromide							
Freon 11							
Freon 113							

**Table 3-9 -- Generalized Grid Soil Data - Manufacturing Support Area and Southern Vineyard Blocks - Analytical Results**

Constituent	Sample ID:	RB-046_5FT	RB-047_0FT	RB-047_5FT	RB-048_0FT	RB-048_5FT	RB-049_0FT
Lead		2.30	3.80	4.00	3.00	3.20	3.30
Manganese							
Mercury		0.007	0.007	0.01	0.02	0.01	0.01
Methyl ethyl ketone							
Methyl isobutyl ketone							
Methylene chloride							
Selenium		0.31 U					
Silver		0.17 U					
Styrene							
Tetrachloroethene							
Thallium							
Toluene							
Trichloroethene							
Vanadium							
Vinyl chloride							
Xylenes							
cis-1,2-Dichloroethene							
cis-1,3-Dichloropropene							
trans-1,2-Dichloroethene							
trans-1,3-Dichloropropene							

Table 3-9 -- Generalized Grid Soil Data - Manufacturing Support Area and Southern Vineyard Blocks - Analytical Results

Constituent	Sample ID:	RB-049_5FT
<b>Soil Data (mg/kg)</b>		
1,1,1-Trichloroethane		
1,1,2,2-Tetrachloroethane		
1,1,2-Trichloroethane		
1,1-Dichloroethane		
1,1-Dichloroethene		
1,2-Dichloroethane		
1,2-Dichloropropane		
1,4-Dichlorobenzene		
2-Hexanone		
Acetone		
Arsenic		3.10
Barium		56.00
Benzene		
Bromodichloromethane		
Bromoethane		
Bromoform		
Cadmium		0.03 U
Carbon disulfide		
Carbon tetrachloride		
Chlorobenzene		
Chloroethane		
Chloroform		
Chloromethane		
Chromium		22.70
Dibromochloromethane		
Dichlorodifluoromethane		
Ethylbenzene		
Ethylene dibromide		
Freon 11		
Freon 113		

**Table 3-9 -- Generalized Grid Soil Data - Manufacturing Support Area and Southern Vineyard Blocks - Analytical Results**

Constituent	Sample ID:	RB-049_5FT
Lead		2.70
Manganese		
Mercury		0.21
Methyl ethyl ketone		
Methyl isobutyl ketone		
Methylene chloride		
Selenium		0.31 U
Silver		0.17 U
Styrene		
Tetrachloroethene		
Thallium		
Toluene		
Trichloroethene		
Vanadium		
Vinyl chloride		
Xylenes		
cis-1,2-Dichloroethene		
cis-1,3-Dichloropropene		
trans-1,2-Dichloroethene		
trans-1,3-Dichloropropene		

**Table 3-10 – Statistical Summary of Generalized Grid Soil - Manufacturing Support Area Data and Comparison to RBSCs**  
(mg/kg)

CAS Number	Constituent	Number of Samples	Frequency of Detection	Maximum Non-Detected Value	Maximum Detected Value	Mean <sup>(1)</sup>	Detected?	Risk Based Screening Concentration <sup>(2)</sup>	Basis <sup>(3)</sup>	Exceed RBSC?	COI? <sup>(4)</sup>
71-55-6	1,1,1-Trichloroethane	13		0.0062		0.0016	No				
79-34-5	1,1,2,2-Tetrachloroethane	13		0.0062		0.0009	No				
79-00-5	1,1,2-Trichloroethane	13		0.0062		0.0008	No				
75-34-3	1,1-Dichloroethane	13		0.0062		0.0011	No				
75-35-4	1,1-Dichloroethene	13		0.0062		0.0015	No				
107-06-2	1,2-Dichloroethane	13		0.0062		0.0008	No				
78-87-5	1,2-Dichloropropane	13		0.0062		0.0009	No				
106-46-7	1,4-Dichlorobenzene	13		0.0062		0.0009	No				
591-78-6	2-Hexanone	13		0.0120		0.0013	No				
67-64-1	Acetone	13	100		0.076	0.023	Yes	1,570	NC	No	No
7440-38-2	Arsenic	21	100		4.0	2.2	Yes	0.39	C	Yes	No <sup>(5)</sup>
7440-39-3	Barium	21	100		99	53	Yes	5,375	NC	No	No
71-43-2	Benzene	13		0.0062		0.0013	No				
75-27-4	Bromodichloromethane	13		0.0062		0.0009	No				
74-96-4	Bromoethane	10		0.0034		0.0008	No				
75-25-2	Bromoform	13		0.0062		0.0009	No				
7440-43-9	Cadmium	21		0.2500		0.030	No				
75-15-0	Carbon disulfide	13		0.0120		0.0019	No				
56-23-5	Carbon tetrachloride	13		0.0062		0.0015	No				
108-90-7	Chlorobenzene	13		0.0062		0.0010	No				
75-00-3	Chloroethane	13		0.0062		0.0013	No				
67-66-3	Chloroform	13		0.0062		0.0008	No				
74-87-3	Chloromethane	13		0.0073		0.0018	No				
7440-47-3	Chromium	21	100		28.5	19.1	Yes	1,000,000	NC	No	No
156-59-2	cis-1,2-Dichloroethene	13		0.0062		0.0013	No				
10061-01-5	cis-1,3-Dichloropropene	13		0.0062		0.0008	No				
124-48-1	Dibromochloromethane	13		0.0062		0.0008	No				
75-71-8	Dichlorodifluoromethane	13		0.0087		0.0020	No				
100-41-4	Ethylbenzene	13		0.0062		0.0012	No				
106-93-4	Ethylene dibromide	13		0.0120		0.0012	No				
75-69-4	Freon 11	13		0.0066		0.0016	No				
76-13-1	Freon 113	13		0.0120		0.0020	No				
7439-92-1	Lead	21	100		75	8.1	Yes	150	LS	No	No
7439-96-5	Manganese	3	100		373	304	Yes	1,762	NC	No	No
7439-97-6	Mercury	21	81	0.0490	0.21	0.024	Yes	2.3	NC	No	No
78-93-3	Methyl ethyl ketone	13	46	0.0120	0.013	0.0039	Yes	7,325	NC	No	No
108-10-1	Methyl isobutyl ketone	13		0.0120		0.0029	No				

**Table 3-10 – Statistical Summary of Generalized Grid Soil - Manufacturing Support Area Data and Comparison to RBSCs (mg/kg)**

CAS Number	Constituent	Number of Samples	Frequency of Detection	Maximum Non-Detected Value	Maximum Detected Value	Mean <sup>(1)</sup>	Detected?	Risk Based Screening Concentration <sup>(2)</sup>	Basis <sup>(3)</sup>	Exceed RBSC?	COI? <sup>(4)</sup>
75-09-2	Methylene chloride	13	15	0.0120	0.0016	0.0014	Yes	9.1	C	No	No
7782-49-2	Selenium	21		0.6200		0.17	No				
7440-22-4	Silver	21		0.6200		0.11	No				
100-42-5	Styrene	13		0.0062		0.0011	No				
127-18-4	Tetrachloroethene	13		0.0067		0.0017	No				
7440-28-0	Thallium	3		1.2000		0.57	No				
108-88-3	Toluene	13		0.0062		0.0012	No				
156-60-5	trans-1,2-Dichloroethene	13		0.0062		0.0014	No				
10061-02-6	trans-1,3-Dichloropropene	13		0.0062		0.0008	No				
79-01-6	Trichloroethene	13		0.0062		0.0014	No				
7440-62-2	Vanadium	3	100		46	39	Yes	547	NC	No	No
75-01-4	Vinyl chloride	13		0.0062		0.0015	No				
1330-20-7	Xylenes	13		0.0120		0.0026	No				

<sup>(1)</sup> Non-detected data were assigned ½ of sample quantitation limit for the purpose of calculating summary statistics.

<sup>(2)</sup> RBSCs were obtained from the USEPA Region 9 PRGs (USEPA, 2002)

<sup>(3)</sup> C = Cancer and NC = Non-cancer, LS = CALEPA Leadsread Model.

<sup>(4)</sup> COI = Constituent of Interest

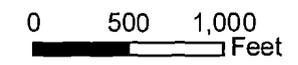
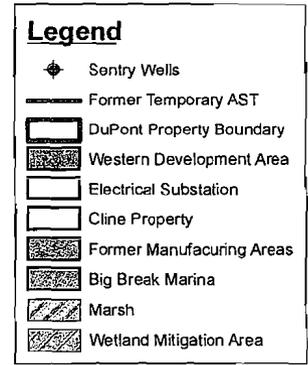
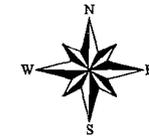
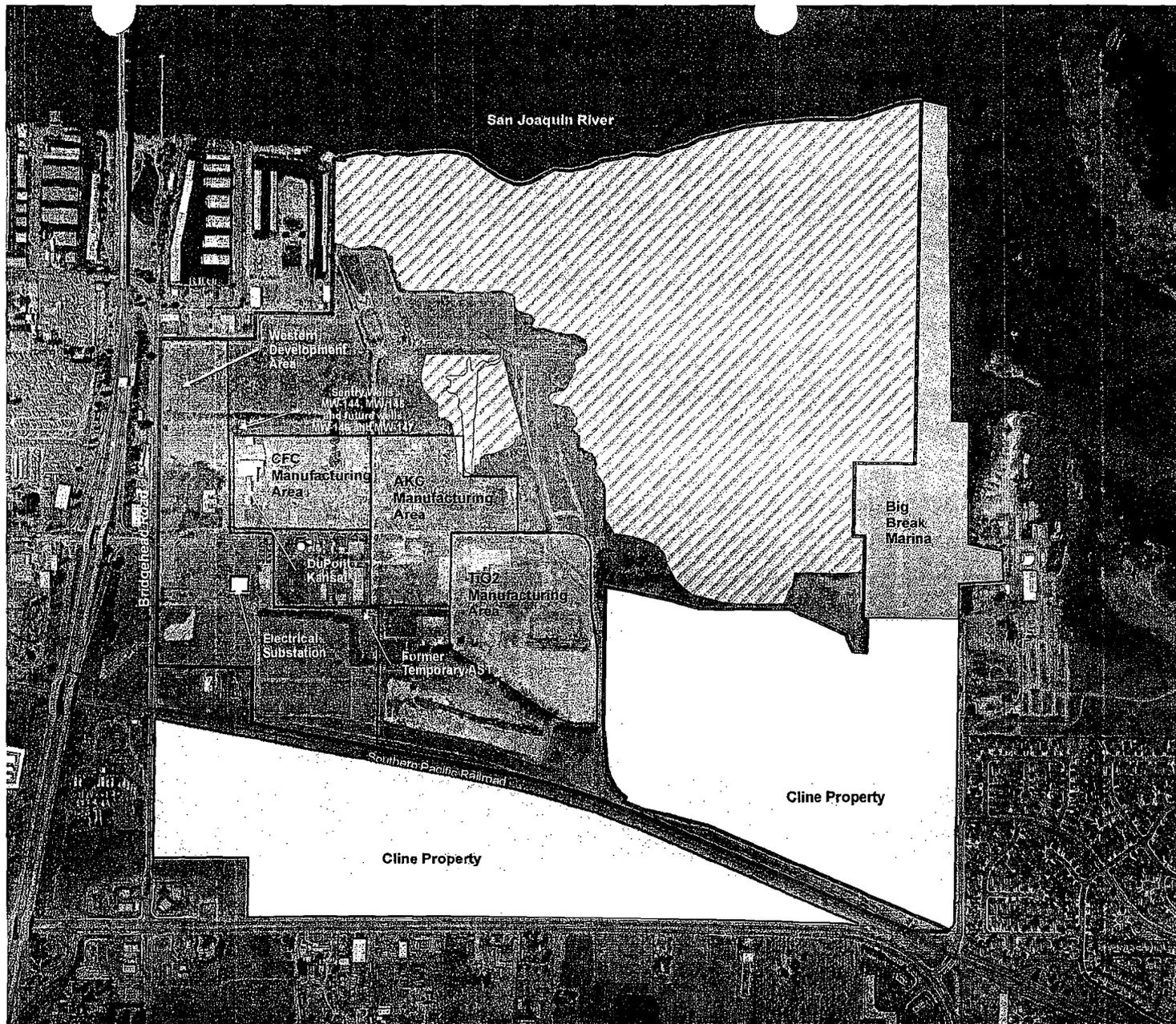
<sup>(5)</sup> Arsenic concentration is below background.

**Table 4-1**

**2004 Detected VOC Analytical  
Results ( $\mu\text{g/L}$ ) from Wells MW-144 and MW-145**

<b>Well ID</b>	<b>Date Sampled</b>	<b>CFC-113</b>	<b>CFC-123 (TIC)</b>
MW-144	3/22/2004	130	ND
MW-144	6/07/2004	160	7
MW-145	3/22/2004	260	ND
MW-145	6/07/2004	270	ND

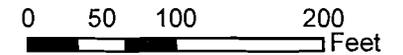
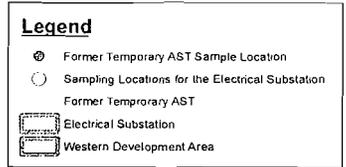
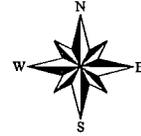
ND = nondetect



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 An Alliance between  
 DuPont and URS Diamond  
 140 Cypress Station Drive  
 Houston, Texas 77090

**Western Development Area**  
**Western Development Area Phase I and Phase II Report**  
**DuPont Oakley Site**

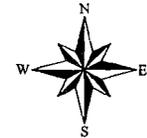
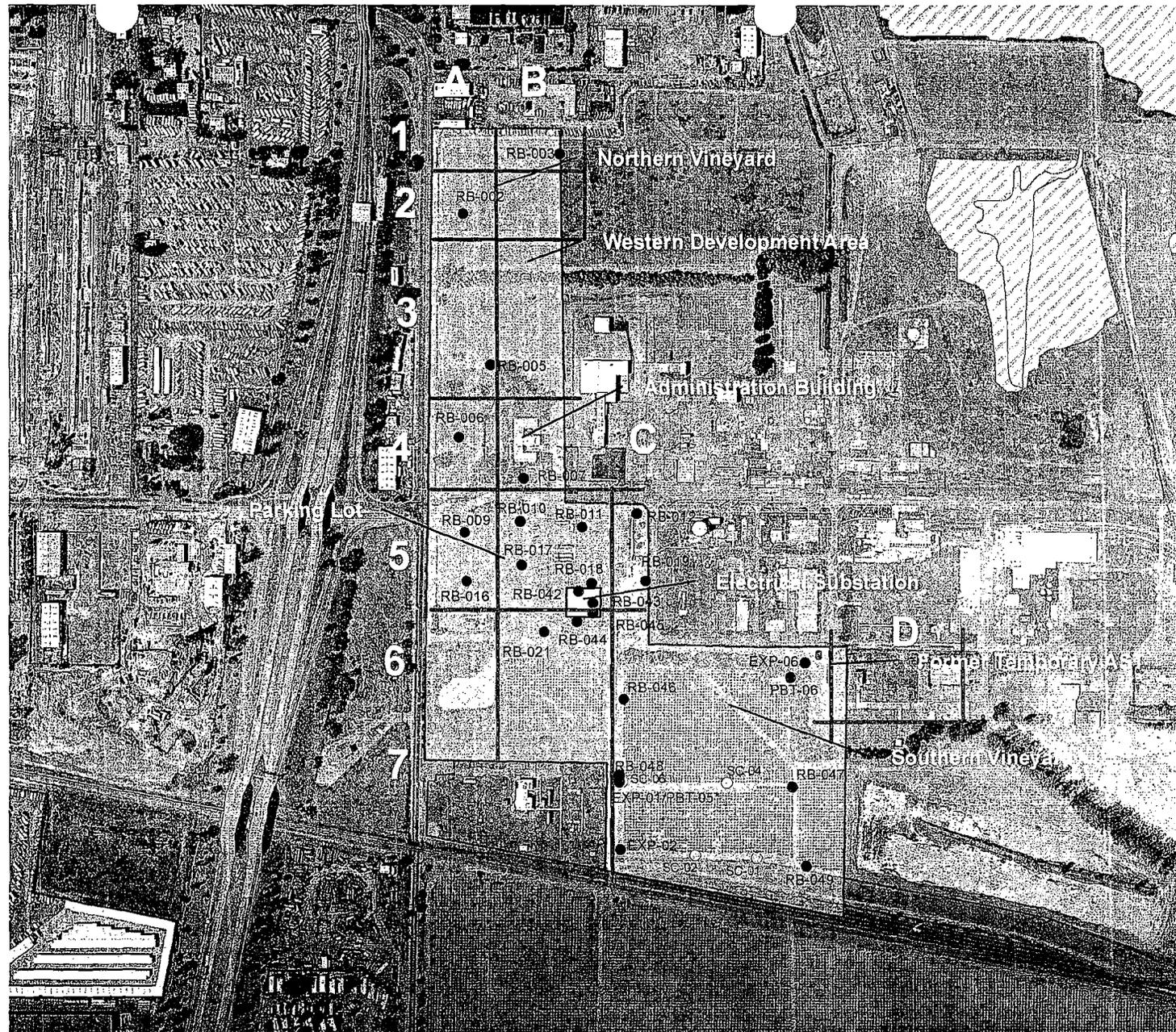
DWN: JH	PROJECT: 3022.00004
DATE: 10/18/2004	FIGURE NO.: 1-1



Corporate Remediation Group  
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 DuPont and URS Diamond  
 140 Cypress Station Drive  
 Houston, Texas 77090

**Electrical Substation Soil Sample Locations**  
**Western Development Area Phase I and Phase II Report**  
**DuPont Oakley Site**

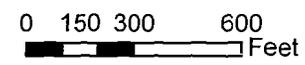
DWN: JH	PROJECT: 3022.00004
DATE: 10/14/2004	FIGURE NO.: 3-1



**Legend**

-  Western Development Area
-  Electrical Substation
-  Former Temporary AST
-  Sierra Crete Sample Locations
-  Soil Sample Locations
-  Marsh

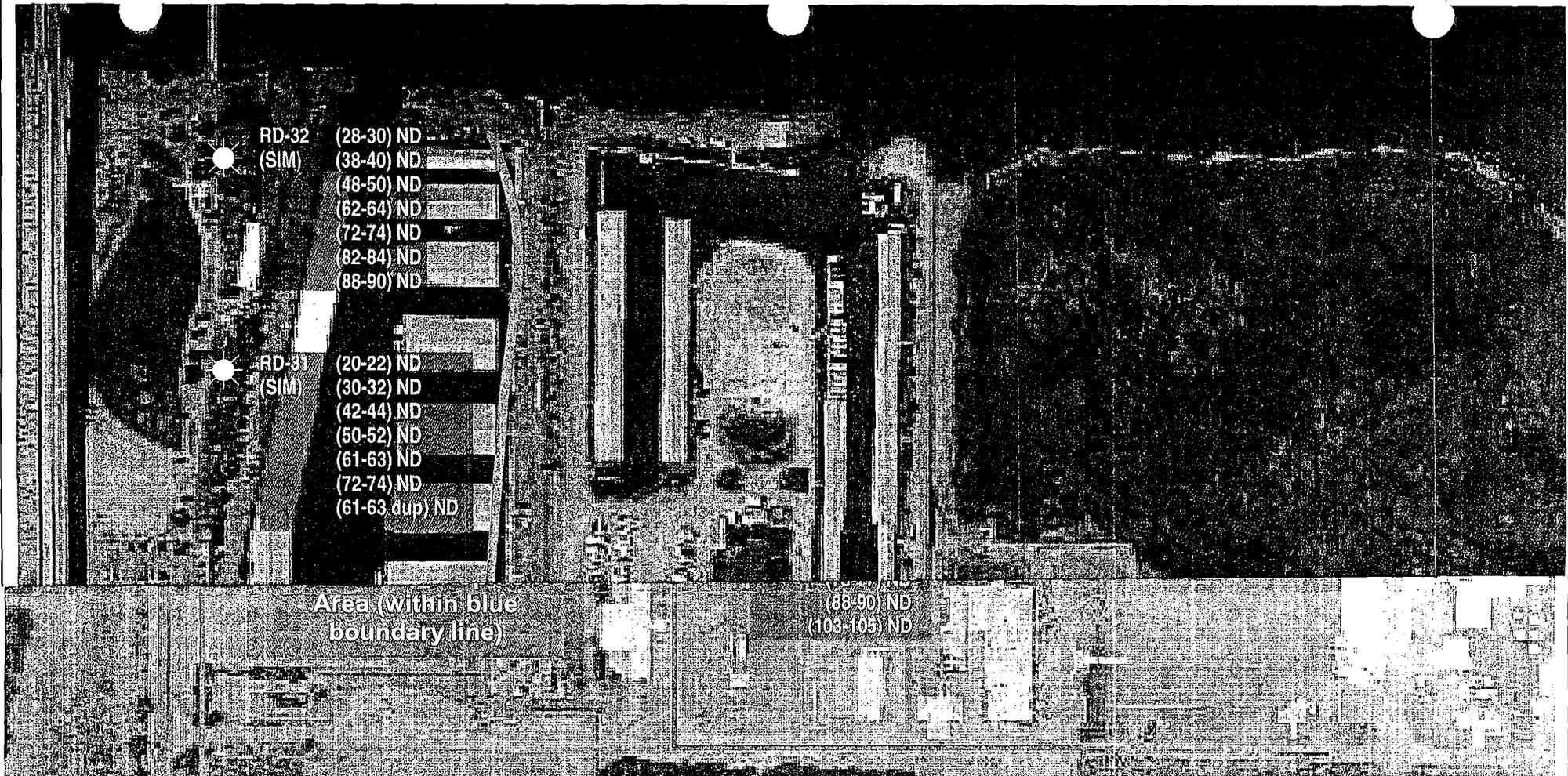
\*Note:  
PBT-05 and EXP-01  
Share a single location.



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Houston, Texas 77090

**Western Development Area Soil Sample Locations**  
**Western Development Area Phase I and Phase II Report**  
**DuPont Oakley Site**

DWN: JH	PROJECT: 3022.00004
DATE: 10/11/2004	FIGURE NO.: 3-2



CORPORATE REMEDIATION GROUP  
*An Alliance between*  
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 140 Cypress Station Drive, Suite 140  
 Houston, Texas 77090

### Results of Plume 1 Northwest Groundwater Delineation (October 2003)

DWN:

**LWG**

PROJECT NO.:

18983022

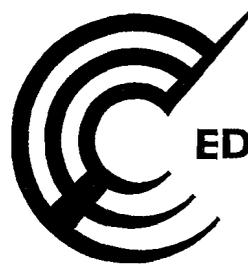
DATE:

Drawn: 12/11/03  
 Revised for WDA Phase I  
 and II ESA on 10/18/04

FIGURE NO.:

**4-1**

**APPENDIX A  
EDR REPORT**



**EDR™** Environmental  
Data Resources Inc

## **The EDR Radius Map with GeoCheck®**

**DuPont - Oakley  
6000 Bridgehead Road  
Oakley, CA 94561**

**Inquiry Number: 01258162.1r**

**August 27, 2004**

## **The Standard in Environmental Risk Management Information**

440 Wheelers Farms Road  
Milford, Connecticut 06460

### **Nationwide Customer Service**

Telephone: 1-800-352-0050  
Fax: 1-800-231-6802  
Internet: [www.edrnet.com](http://www.edrnet.com)

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## GEOCHECK ADDENDUM

Physical Setting Source Addendum.....	A-1
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*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

### TARGET PROPERTY INFORMATION

#### ADDRESS

6000 BRIDGEHEAD ROAD  
OAKLEY, CA 94561

#### COORDINATES

Latitude (North): 38.007700 - 38° 0' 27.7"  
Longitude (West): 121.745600 - 121° 44' 44.2"  
Universal Transverse Mercator: Zone 10  
UTM X (Meters): 610126.4  
UTM Y (Meters): 4207206.0  
Elevation: 22 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: 38121-A6 JERSEY ISLAND, CA  
Source: USGS 7.5 min quad index

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
DU PONT ANTIOCH WORKS 6000 BRIDGEHEAD RD ANTIOCH, CA 94509	LUST Cortese CA FID UST	N/A
E. I. DUPONT DE NEMOURS & CO 6000 BRIDGEHEAD RD ANTIOCH, CA 94509	FINDS RCRIS-LQG RCRIS-TSD CORRACTS CERC-NFRAP HIST UST	CAD009151671
E I DUPONT DE NEMOURS & COMPANY INC 6000 BRIDGEHEAD RD OAKLEY, CA 94561	HAZNET CA SLIC CONTRA COSTA CO. SITE LIST CA WDS EMI	N/A
ANTIOCH FACILITY 6000 BRIDGEHEAD RD ANTIOCH CA, CA 94509	CHMIRS WMUDS/SWAT	N/A

## EXECUTIVE SUMMARY

### 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 ASTM E 1527-00 search radius around the target property for the following databases:

### FEDERAL ASTM STANDARD

NPL.....	National Priority List
Proposed NPL.....	Proposed National Priority List Sites
CERCLIS.....	Comprehensive Environmental Response, Compensation, and Liability Information System
RCRIS-SQG.....	Resource Conservation and Recovery Information System
ERNS.....	Emergency Response Notification System

### STATE ASTM STANDARD

AWP.....	Annual Workplan Sites
Cal-Sites.....	Calsites Database
Notify 65.....	Proposition 65 Records
Toxic Pits.....	Toxic Pits Cleanup Act Sites
CA BOND EXP. PLAN.....	Bond Expenditure Plan
VCP.....	Voluntary Cleanup Program Properties
INDIAN LUST.....	Leaking Underground Storage Tanks on Indian Land
INDIAN UST.....	Underground Storage Tanks on Indian Land

### FEDERAL ASTM SUPPLEMENTAL

CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
Delisted NPL.....	National Priority List Deletions
HMIRS.....	Hazardous Materials Information Reporting System
MLTS.....	Material Licensing Tracking System
MINES.....	Mines Master Index File
NPL Liens.....	Federal Superfund Liens
PADS.....	PCB Activity Database System
UMTRA.....	Uranium Mill Tailings Sites
DOD.....	Department of Defense Sites
US BROWNFIELDS.....	A Listing of Brownfields Sites
FUDS.....	Formerly Used Defense Sites
INDIAN RESERV.....	Indian Reservations
RAATS.....	RCRA Administrative Action Tracking System
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
SSTS.....	Section 7 Tracking Systems
FTTS INSP.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

### STATE OR LOCAL ASTM SUPPLEMENTAL

AST.....	Aboveground Petroleum Storage Tank Facilities
CLEANERS.....	Cleaner Facilities

# EXECUTIVE SUMMARY

DEED..... List of Deed Restrictions  
SCH..... School Property Evaluation Program  
REF..... Unconfirmed Properties Referred to Another Agency  
NFA..... No Further Action Determination  
NFE..... Properties Needing Further Evaluation

## EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas..... Former Manufactured Gas (Coal Gas) Sites

## BROWNFIELDS DATABASES

US BROWNFIELDS..... A Listing of Brownfields Sites  
VCP..... Voluntary Cleanup Program Properties

## SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

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.

## STATE ASTM STANDARD

**CORTESE:** This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, has revealed that there are 4 Cortese sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<b><i>NEW BRIDGE MARINA</i></b>	<b><i>6325 BRIDGEHEAD RD</i></b>	<b><i>1/4 - 1/2 WSW</i></b>	<b><i>11</i></b>	<b><i>30</i></b>
<b><i>OAKLEY BUILDERS SUPPLY</i></b>	<b><i>800 MAIN ST</i></b>	<b><i>1/4 - 1/2 WSW</i></b>	<b><i>12</i></b>	<b><i>31</i></b>
<b><i>BRIDGEHEAD INC</i></b>	<b><i>5540 BRIDGEHEAD RD</i></b>	<b><i>1/4 - 1/2 NW</i></b>	<b><i>13</i></b>	<b><i>33</i></b>
<b><i>CHEVRON #9-3801</i></b>	<b><i>5433 NEROLY RD</i></b>	<b><i>1/4 - 1/2 SW</i></b>	<b><i>15</i></b>	<b><i>37</i></b>

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

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within

## EXECUTIVE SUMMARY

approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CONTRA COSTA AUTO SALVAGE	1731-B MAIN STREET	1/4 - 1/2ESE	14	36

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

A review of the LUST list, as provided by EDR, and dated 07/12/2004 has revealed that there are 4 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>NEW BRIDGE MARINA</i>	<i>6325 BRIDGEHEAD RD</i>	<i>1/4 - 1/2 WSW</i>	<i>11</i>	<i>30</i>
<i>OAKLEY BUILDERS SUPPLY</i>	<i>800 MAIN ST</i>	<i>1/4 - 1/2 WSW</i>	<i>12</i>	<i>31</i>
<i>BRIDGEHEAD INC</i>	<i>5540 BRIDGEHEAD RD</i>	<i>1/4 - 1/2NW</i>	<i>13</i>	<i>33</i>
<i>CHEVRON #9-3801</i>	<i>5433 NEROLY RD</i>	<i>1/4 - 1/2 SW</i>	<i>15</i>	<i>37</i>

**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 07/12/2004 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MELLO S SHEET METAL	1241 MAIN ST	1/8 - 1/4 S	C8	27

### STATE OR LOCAL ASTM SUPPLEMENTAL

**HAZNET:** The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency

A review of the HAZNET list, as provided by EDR, and dated 12/31/2002 has revealed that there is 1 HAZNET site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>PALEX</i>	<i>1315 MAIN ST</i>	<i>1/8 - 1/4 SSE</i>	<i>D9</i>	<i>27</i>

**SL:**Lists includes sites from the Underground Tank Program, Hazardous Waste Generator Program & Business Plan 12185 Program

A review of the CONTRA COSTA CO. SITE LIST list, as provided by EDR, has revealed that there are 5

## EXECUTIVE SUMMARY

CONTRA COSTA CO. SITE LIST sites within approximately 0.25 miles of the target property.

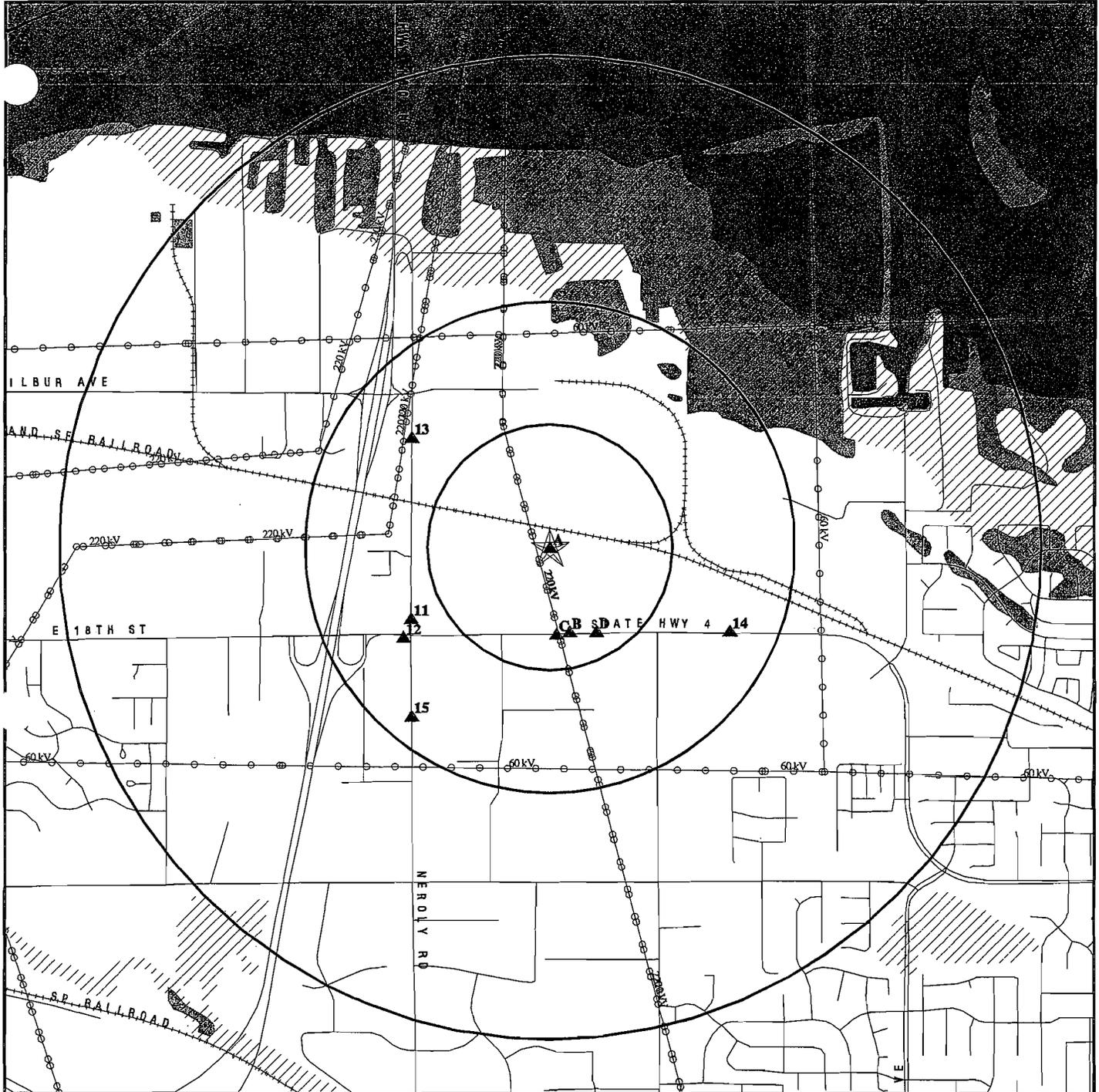
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DELTA SCRAP & SALVAGE	1371 MAIN ST	1/8 - 1/4 SSE	B5	26
GE SALES/DELTA SCRAP	1371 MAIN ST	1/8 - 1/4 SSE	B6	26
MELLO'S SHEET METAL	1241 MAIN ST	1/8 - 1/4 S	C7	27
<b><i>PALEX</i></b>	<b><i>1315 MAIN ST</i></b>	<b><i>1/8 - 1/4 SSE</i></b>	<b><i>D9</i></b>	<b><i>27</i></b>
KAMPS PROPANE	1433 MAIN ST	1/8 - 1/4 SSE	D10	29

## EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
ARCO PRODUCTS #6301	UST
7-ELEVEN STORE #32787	UST
. . LEWIS RANCH	HIST UST
OAKLEY TRUCK & TRACTOR REPAIR	HIST UST
OAKLEY BETHEL ISLAND WASTEWATE	HIST UST
MAURICE LODGE	HAZNET
EAGLE CITY MOBILE HOME PARK	HAZNET
CHEAPER #169	HAZNET
ARCO FACILITY NO 06301	RCRIS-SQG, FINDS, HAZNET
BALIOBAIT	HAZNET
DELTA TOP SOIL	HAZNET
P G AND E DUTCH SLOUGH DEHYDRATOR	RCRIS-SQG, FINDS, HAZNET
CHEVRON STATION NO 93801	RCRIS-SQG, FINDS
EAST OAKLEY	ERNS
OAKLEY/BETHEL ISLAND TREATMENT PLANT 750 OAKLEY RD	ERNS
PACIFIC GAS AND ELECTRIC - WP	CA BOND EXP. PLAN
CYPRESS ROAD NEW ELEMENTARY SCHOOL	SCH
MCKINNEY, EMILE E	CONTRA COSTA CO. SITE LIST
LUCCHESI, ROY & RAPLH	CONTRA COSTA CO. SITE LIST
STONEBARGER RANCH	CONTRA COSTA CO. SITE LIST
LUCCHESI, GUIDO	CONTRA COSTA CO. SITE LIST
JOHNSON, ELMER	CONTRA COSTA CO. SITE LIST
BALDOCCHI, EVO	CONTRA COSTA CO. SITE LIST
WINDSWEPT LIVESTOCK CO	CONTRA COSTA CO. SITE LIST
GOTLAND OIL, INC	CONTRA COSTA CO. SITE LIST
OAKLEY TRUCK & TRACTOR REPAIR	CONTRA COSTA CO. SITE LIST
SHOSHONE OIL CORPORATION	CONTRA COSTA CO. SITE LIST
WESTERN CONT'L NGC-KYSH-1	CONTRA COSTA CO. SITE LIST

# OVERVIEW MAP - 01258162.1r - Pioneer Technologies



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ▨ National Priority List Sites
- ▨ Landfill Sites
- ▨ Dept. Defense Sites

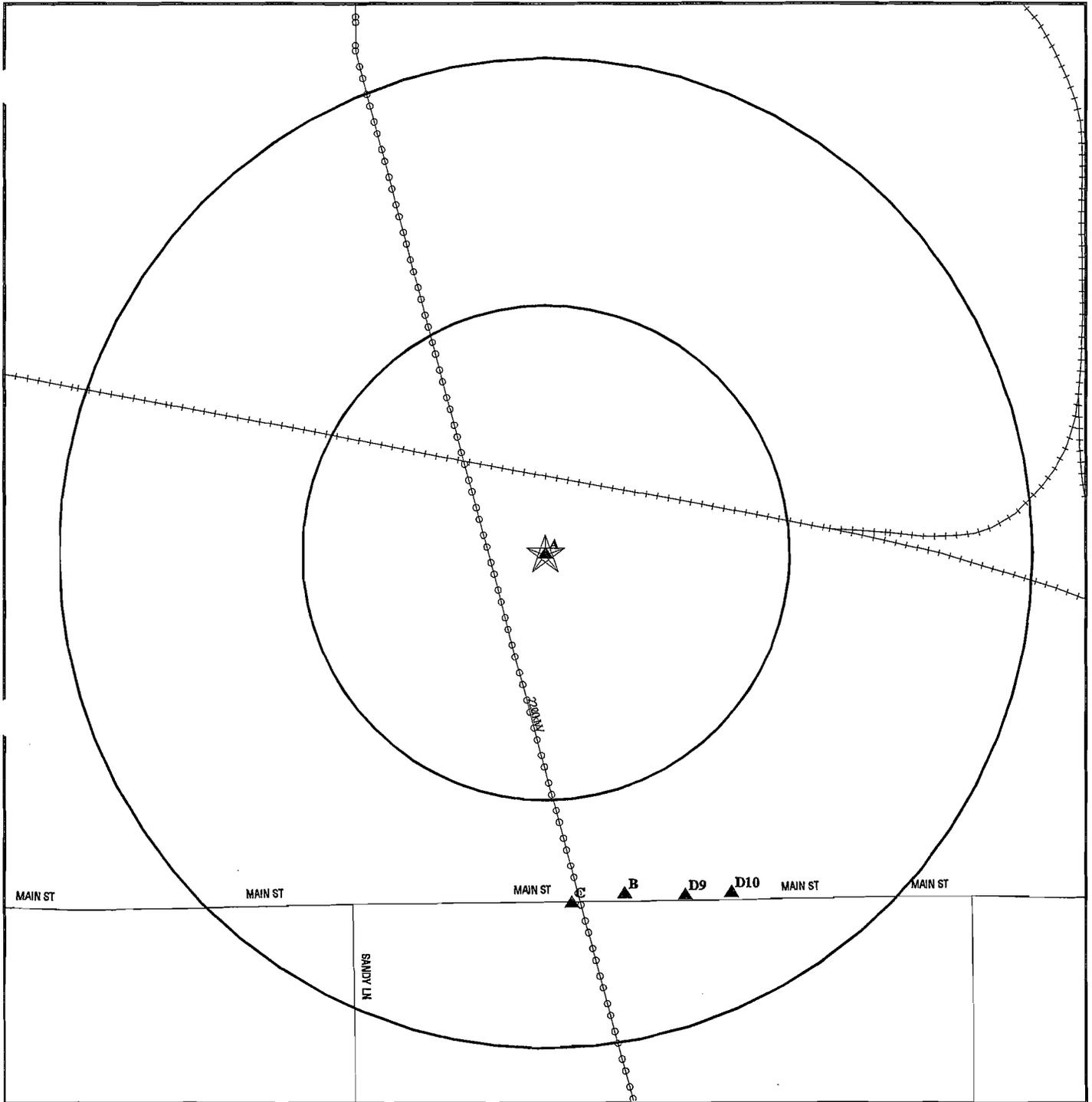
- ▨ Indian Reservations BIA
- ▨ County Boundary
- ▨ Power transmission lines
- ▨ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▨ Federal Wetlands

▨ Areas of Concern

**TARGET PROPERTY:** DuPont - Oakley  
**ADDRESS:** 6000 Bridgehead Road  
**CITY/STATE/ZIP:** Oakley CA 94561  
**LAT/LONG:** 38.0077 / 121.7456

**CUSTOMER:** Pioneer Technologies  
**CONTACT:** Brad Grimsted  
**INQUIRY #:** 01258162.1r  
**DATE:** August 27, 2004 8:11 am

# DETAIL MAP - 01258162.1r - Pioneer Technologies



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Coal Gasification Sites
- ⊠ Sensitive Receptors
- ▨ National Priority List Sites
- ▨ Landfill Sites
- ▨ Dept. Defense Sites
- ▨ Indian Reservations BIA
- ▨ County Boundary
- ▨ Power transmission lines
- ▨ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▨ Areas of Concern

<p><b>TARGET PROPERTY:</b> DuPont - Oakley  <b>ADDRESS:</b> 6000 Bridgehead Road  <b>CITY/STATE/ZIP:</b> Oakley CA 94561  <b>LAT/LONG:</b> 38.0077 / 121.7456</p>	<p><b>CUSTOMER:</b> Pioneer Technologies  <b>CONTACT:</b> Brad Grimsted  <b>INQUIRY #:</b> 01258162.1r  <b>DATE:</b> August 27, 2004 8:12 am</p>
---	--

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>FEDERAL ASTM STANDARD</u></b>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP	X	0.250	0	0	NR	NR	NR	0
CORRACTS	X	1.000	0	0	0	0	NR	0
RCRIS-TSD	X	0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.	X	0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE ASTM STANDARD</u></b>								
AWP		1.000	0	0	0	0	NR	0
Cal-Sites		1.000	0	0	0	0	NR	0
CHMIRS	X	TP	NR	NR	NR	NR	NR	0
Cortese	X	0.500	0	0	4	NR	NR	4
Notify 65		1.000	0	0	0	0	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	1	NR	NR	1
WMUDS/SWAT	X	0.500	0	0	0	NR	NR	0
LUST	X	0.500	0	0	4	NR	NR	4
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
UST		0.250	0	1	NR	NR	NR	1
VCP		0.500	0	0	0	NR	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
CA FID UST	X	0.250	0	0	NR	NR	NR	0
HIST UST	X	0.250	0	0	NR	NR	NR	0
<b><u>FEDERAL ASTM SUPPLEMENTAL</u></b>								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
FUDS		1.000	0	0	0	0	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>FEDERAL ASTM STANDARD</u></b>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP	X	0.250	0	0	NR	NR	NR	0
CORRACTS	X	1.000	0	0	0	0	NR	0
RCRIS-TSD	X	0.500	0	0	0	NR	NR	0
RCRIS Lg. Quan. Gen.	X	0.250	0	0	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE ASTM STANDARD</u></b>								
AWP		1.000	0	0	0	0	NR	0
Cal-Sites		1.000	0	0	0	0	NR	0
CHMIRS	X	TP	NR	NR	NR	NR	NR	0
Cortese	X	0.500	0	0	4	NR	NR	4
Notify 65		1.000	0	0	0	0	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	1	NR	NR	1
WMUDS/SWAT	X	0.500	0	0	0	NR	NR	0
LUST	X	0.500	0	0	4	NR	NR	4
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
UST		0.250	0	1	NR	NR	NR	1
VCP		0.500	0	0	0	NR	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
CA FID UST	X	0.250	0	0	NR	NR	NR	0
HIST UST	X	0.250	0	0	NR	NR	NR	0
<b><u>FEDERAL ASTM SUPPLEMENTAL</u></b>								
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
FUDS		1.000	0	0	0	0	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TSCA		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
<b><u>STATE OR LOCAL ASTM SUPPLEMENTAL</u></b>								
AST		TP	NR	NR	NR	NR	NR	0
CLEANERS		0.250	0	0	NR	NR	NR	0
CA WDS	X	TP	NR	NR	NR	NR	NR	0
DEED		TP	NR	NR	NR	NR	NR	0
SCH		0.250	0	0	NR	NR	NR	0
EMI	X	TP	NR	NR	NR	NR	NR	0
REF		0.250	0	0	NR	NR	NR	0
NFA		0.250	0	0	NR	NR	NR	0
NFE		0.250	0	0	NR	NR	NR	0
CA SLIC	X	0.500	0	0	0	NR	NR	0
HAZNET	X	0.250	0	1	NR	NR	NR	1
Contra Costa Co. Site List	X	0.250	0	5	NR	NR	NR	5
<b><u>EDR PROPRIETARY HISTORICAL DATABASES</u></b>								
Coal Gas		1.000	0	0	0	0	NR	0
<b><u>BROWNFIELDS DATABASES</u></b>								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0

**NOTES:**

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

A1            **DU PONT ANTIOCH WORKS**  
 Target        **6000 BRIDGEHEAD RD**  
 Property      **ANTIOCH, CA 94509**

LUST        **S101580703**  
 Cortese      **N/A**  
 CA FID UST

Site 1 of 4 in cluster A

Actual:  
 22 ft.

State LUST:

Cross Street:	WILBUR	Confirm Leak:	Not reported
Qty Leaked:	1	Prelim Assess:	Not reported
Case Number:	070004	Remed Plan:	Not reported
Reg Board:	0		
Chemical:	Unleaded Gasoline		
Lead Agency:	Regional Board		
Local Agency:	07000		
Case Type:	Aquifer affected		
Status:	Remedial action (cleanup) Underway		
Review Date:	Not reported		
Workplan:	Not reported		
Pollution Char:	Not reported		
Remed Action:	2001-05-01 00:00:00		
Monitoring:	Not reported		
Close Date:	2000-04-28 00:00:00		
Release Date:	Not reported		
Cleanup Fund Id:	Not reported		
Discover Date:	Not reported		
Enforcement Dt:	1965-01-01 00:00:00		
Enf Type:	Cleanup and Abatement Orders		
Enter Date:	1986-12-31 00:00:00		
Funding:	Not reported		
Staff Initials:	BRU		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim:	Not reported		
Leak Cause:	Spill		
Leak Source:	Other Source		
MTBE Date:	Not reported		
Max MTBE GW:	Not reported		
MTBE Tested:	Site NOT Tested for MTBE. Includes Unknown and Not Analyzed.		
Priority:	High priority		
Local Case #:	0		
Beneficial:	Not reported		
Staff:	DLL		
GW Qualifier:	Not reported		
Max MTBE Soil:	Not reported		
Soil Qualifier:	Not reported		
Hydr Basin #:	SAN JOAQUIN VALLEY (		
Operator:	Not reported		
Oversight Prgm:	Spills, Leaks, Investigations and Cleanup UST		
Review Date:	2000-04-28 00:00:00		
Stop Date:	Not reported		
Work Suspended:	No		
Responsible Party:	E.I. DU PONT DE NEMOURS & CO.		
RP Address:	P.O. BOX 310, ANTIOCH, CA 94509		
Global Id:	T0601300745		
Org Name:	Not reported		

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Database(s)      EDR ID Number  
 EPA ID Number

**DU PONT ANTIOCH WORKS (Continued)**

**S101580703**

Contact Person: Not reported  
 MTBE Conc: 0  
 Mtbe Fuel: 1  
 Water System Name: Not reported  
 Well Name: Not reported  
 Distance To Lust: 1  
 Waste Discharge Global ID: Not reported  
 Waste Disch Assigned Name: Not reported

**LUST Region 5:**

Substance: UNLEAD GASOLINE  
 Case Type: Aquifer affected  
 Program: Spills, Leaks, Investigation & Cleanup Program  
 Staff Initials: DLL      Case Number: 070004  
 Status: Remedial action (cleanup) Underway  
 MTBE Code: N/A  
 Lead Agency: Regional

**CORTESE:**

Region: CORTESE  
 Fac Address 2: 6000 BRIDGEHEAD RD

**FID:**

Facility ID: 07000002      Regulate ID: CAD009151  
 Reg By: Active Underground Storage Tank Location  
 Cortese Code: Not reported      SIC Code: Not reported  
 Status: Active      Facility Tel: (415) 757-1210  
 Mail To: Not reported  
           6000 BRIDGEHEAD RD  
           ANTIOCH, CA 94509  
 Contact: Not reported      Contact Tel: Not reported  
 DUNs No: Not reported      NPDES No: Not reported  
 Creation: 10/22/93      Modified: 00/00/00  
 EPA ID: Not reported  
 Comments: Not reported

**A2      E. I. DUPONT DE NEMOURS & CO**  
**Target      6000 BRIDGEHEAD RD**  
**Property      ANTIOCH, CA 94509**

**FINDS      1000111309**  
**RCRIS-LQG      CAD009151671**  
**RCRIS-TSD**  
**CORRACTS**  
**CERC-NFRAP**  
**HIST UST**

**Actual:      Site 2 of 4 in cluster A**  
**22 ft.**

**CERCLIS-NFRAP Classification Data:**

Site Incident Category: Not reported      Federal Facility: Not a Federal Facility  
 Non NPL Code: NFRAP  
 Ownership Status: Private      NPL Status: Not on the NPL

**CERCLIS-NFRAP Assessment History:**

Assessment: DISCOVERY      Completed: 11/01/1979  
 Assessment: SITE INSPECTION      Completed: 03/01/1985  
 Assessment: PRELIMINARY ASSESSMENT      Completed: 03/01/1985  
 Assessment: PRELIMINARY ASSESSMENT      Completed: 11/23/1988  
 Assessment: ARCHIVE SITE      Completed: 09/13/1990  
 Assessment: PRELIMINARY ASSESSMENT      Completed: 09/13/1990

**CERCLIS-NFRAP Alias Name(s):**

DUPONT ANTIOCH WORKS

**CORRACTS Data:**

EPA Id: CAD009151671  
 Region: 9

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

Site	Database(s)	EDR ID Number	EPA ID Number
<b>E. I. DUPONT DE NEMOURS &amp; CO (Continued)</b>		<b>1000111309</b>	
Area Name:	ENTIRE FACILITY		
Actual Date:	10/08/1997		
Corrective Action:	CA225YE - Stabilization Measures Evaluation, This facility is amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations		
2002 NAICS Title:	Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing		
EPA Id:	CAD009151671		
Region:	9		
Area Name:	ENTIRE FACILITY		
Actual Date:	11/23/1988		
Corrective Action:	CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority		
2002 NAICS Title:	Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing		
EPA Id:	CAD009151671		
Region:	9		
Area Name:	ENTIRE FACILITY		
Actual Date:	06/30/1994		
Corrective Action:	CA600GW - Stabilization Measures Implemented , Groundwater extraction and treatment		
2002 NAICS Title:	Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing		
EPA Id:	CAD009151671		
Region:	9		
Area Name:	FLOURIDE & IRON CHLORIDE SYST.		
Actual Date:	06/30/1994		
Corrective Action:	CA600GW - Stabilization Measures Implemented , Groundwater extraction and treatment		
2002 NAICS Title:	Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing		
EPA Id:	CAD009151671		
Region:	9		
Area Name:	ENTIRE FACILITY		
Actual Date:	01/28/1985		
Corrective Action:	CA600SR - Stabilization Measures Implemented , Primary measure is source removal and/or treatment		
2002 NAICS Title:	Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing Inorganic Dye and Pigment Manufacturing		

[Click this hyperlink](#) while viewing on your computer to access 10 additional CORRACTS record(s) in the EDR Site Report.

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

E. I. DUPONT DE NEMOURS & CO (Continued)

1000111309

RCRIS Corrective Action Summary:

Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event Date: 01/10/2001

Event: Igration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected.

Event Date: 01/10/2001

Event: Stabilization Measures Evaluation, This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.

Event Date: 10/08/1997

Event: Igration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected.

Event Date: 10/08/1997

Event: Stabilization Measures Evaluation, This facility is not amenable to stabilization activity at the present time for reasons other than 1) it appears to be technically infeasible or inappropriate (NF) or 2) there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.

Event Date: 02/10/1995

Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event Date: 01/01/1995

Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Event Date: 01/01/1995

Event: Stabilization Measures Implemented, Groundwater extraction and treatment (e.g., to achieve groundwater containment, to achieve MCL).

Event Date: 06/30/1994

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**E. I. DUPONT DE NEMOURS & CO (Continued)**

**1000111309**

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.  
 Event Date: 11/23/1988

Event: Stabilization Construction Completed  
 Event Date: 09/25/1985

Event: Stabilization Measures Implemented, Primary measure is source removal and/or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).  
 Event Date: 01/28/1985

Event: RFI Approved  
 Event Date: 02/20/1984

Event: RFI Workplan Approved  
 Event Date: 01/10/1983

Event: RFI Imposition  
 Event Date: 01/01/1983

**RCRIS:**

Owner: E I DU PONT DE NEMOURS & CO INC  
 (302) 774-3788  
 EPA ID: CAD009151671  
 Contact: Not reported  
 Classification: Large Quantity Generator, TSD  
 TSD Activities: Not reported

**BIENNIAL REPORTS:**

Last Biennial Reporting Year: 2001

<u>Waste</u>	<u>Quantity (Lbs)</u>	<u>Waste</u>	<u>Quantity (Lbs)</u>
D001	26475.00	D002	17243.54
D004	26475.00	D005	26475.00
D006	26475.00	D008	800.00
D019	24462.00	D022	23662.00
D028	650.00	D039	650.00
D040	650.00	F002	650.00
F003	23012.00		

Violation Status: Violations exist

Regulation Violated: 262.30-34.C  
 Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)  
 Date Violation Determined: 05/14/1996  
 Actual Date Achieved Compliance: 05/14/1996

Enforcement Action: WRITTEN INFORMAL  
 Enforcement Action Date: 05/14/1996  
 Penalty Type: Not reported

Regulation Violated: 262.50-60  
 Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)  
 Date Violation Determined: 05/14/1996  
 Actual Date Achieved Compliance: 05/14/1996

Enforcement Action: WRITTEN INFORMAL  
 Enforcement Action Date: 05/14/1996  
 Penalty Type: Not reported

Regulation Violated: 264.190-201.J  
 Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number  
EPA ID Number

E. I. DUPONT DE NEMOURS & CO (Continued)

1000111309

Date Violation Determined: 05/14/1996  
Actual Date Achieved Compliance: 06/14/1996  
Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 05/14/1996  
Penalty Type: Not reported  
Regulation Violated: 270  
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)  
Date Violation Determined: 09/28/1994  
Actual Date Achieved Compliance: 09/28/1994  
Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 10/04/1994  
Penalty Type: Not reported  
Regulation Violated: 264.10-18.B  
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)  
Date Violation Determined: 09/28/1994  
Actual Date Achieved Compliance: 09/28/1994  
Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 10/04/1994  
Penalty Type: Not reported  
Regulation Violated: 262.50-60  
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)  
Date Violation Determined: 09/28/1994  
Actual Date Achieved Compliance: 11/03/1994  
Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 10/04/1994  
Penalty Type: Not reported  
Regulation Violated: 264.190-201.J  
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)  
Date Violation Determined: 09/28/1994  
Actual Date Achieved Compliance: 11/03/1994  
Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 10/04/1994  
Penalty Type: Not reported  
Regulation Violated: 262.50-60  
Area of Violation: GENERATOR-ALL REQUIREMENTS (OVERSIGHT)  
Date Violation Determined: 02/03/1994  
Actual Date Achieved Compliance: 11/03/1994  
Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 02/07/1994  
Penalty Type: Proposed Monetary Penalty  
Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER  
Enforcement Action Date: 06/30/1994  
Penalty Type: Proposed Monetary Penalty  
Regulation Violated: 264.190-201.J  
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)  
Date Violation Determined: 02/03/1994  
Actual Date Achieved Compliance: 11/03/1994  
Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 02/07/1994  
Penalty Type: Proposed Monetary Penalty

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

E. I. DUPONT DE NEMOURS & CO (Continued)

1000111309

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER  
Enforcement Action Date: 06/30/1994  
Penalty Type: Proposed Monetary Penalty

Regulation Violated: 264.10-18.B  
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)  
Date Violation Determined: 02/03/1994  
Actual Date Achieved Compliance: 09/28/1994

Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 02/07/1994  
Penalty Type: Proposed Monetary Penalty

Enforcement Action: INITIAL 3008(A) COMPLIANCE ORDER  
Enforcement Action Date: 06/30/1994  
Penalty Type: Proposed Monetary Penalty

Regulation Violated: 270  
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)  
Date Violation Determined: 12/11/1990  
Actual Date Achieved Compliance: 01/11/1991

Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 01/11/1991  
Penalty Type: Not reported

Regulation Violated: 270  
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)  
Date Violation Determined: 11/27/1989  
Actual Date Achieved Compliance: 12/11/1990

Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 01/25/1990  
Penalty Type: Not reported

Enforcement Action: FINAL CONSENT DECREES  
Enforcement Action Date: 09/11/1991  
Penalty Type: Not reported

Regulation Violated: 264.70-77.E  
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)  
Date Violation Determined: 11/27/1989  
Actual Date Achieved Compliance: 12/11/1990

Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 01/25/1990  
Penalty Type: Not reported

Enforcement Action: FINAL CONSENT DECREES  
Enforcement Action Date: 09/11/1991  
Penalty Type: Not reported

Regulation Violated: 264.110-120.G  
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS  
Date Violation Determined: 11/27/1989  
Actual Date Achieved Compliance: 12/11/1990

Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 01/25/1990  
Penalty Type: Not reported

Enforcement Action: FINAL CONSENT DECREES  
Enforcement Action Date: 09/11/1991  
Penalty Type: Not reported

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s)  
EDR ID Number  
EPA ID Number

E. I. DUPONT DE NEMOURS & CO (Continued)

1000111309

Regulation Violated: 270  
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)  
Date Violation Determined: 11/30/1988  
Actual Date Achieved Compliance: 01/11/1991  
Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 02/06/1989  
Penalty Type: Not reported  
Enforcement Action: FINAL CONSENT DECREES  
Enforcement Action Date: 09/11/1991  
Penalty Type: Not reported  
Regulation Violated: 264.110-120.G  
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS  
Date Violation Determined: 11/30/1988  
Actual Date Achieved Compliance: 12/11/1990  
Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 02/06/1989  
Penalty Type: Not reported  
Enforcement Action: FINAL CONSENT DECREES  
Enforcement Action Date: 09/11/1991  
Penalty Type: Not reported  
Regulation Violated: 264.140-150.H  
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS  
Date Violation Determined: 11/01/1988  
Actual Date Achieved Compliance: 03/21/1989  
Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 11/28/1988  
Penalty Type: Not reported  
Regulation Violated: 268 ALL  
Area of Violation: TSD-LAND BAN REQUIREMENTS  
Date Violation Determined: 03/31/1988  
Actual Date Achieved Compliance: 03/21/1989  
Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 06/03/1988  
Penalty Type: Not reported  
Enforcement Action: FINAL CONSENT DECREES  
Enforcement Action Date: 09/11/1991  
Penalty Type: Not reported  
Regulation Violated: 268.7  
Area of Violation: GENERATOR-LAND BAN REQUIREMENTS  
Date Violation Determined: 03/31/1988  
Actual Date Achieved Compliance: 03/21/1989  
Enforcement Action: WRITTEN INFORMAL  
Enforcement Action Date: 06/03/1988  
Penalty Type: Not reported  
Enforcement Action: FINAL CONSENT DECREES  
Enforcement Action Date: 09/11/1991  
Penalty Type: Not reported  
Regulation Violated: 270  
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)  
Date Violation Determined: 03/29/1988

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**E. I. DUPONT DE NEMOURS & CO (Continued)**

1000111309

Actual Date Achieved Compliance: 03/21/1989

Enforcement Action: WRITTEN INFORMAL  
 Enforcement Action Date: 06/03/1988  
 Penalty Type: Not reported

Enforcement Action: FINAL CONSENT DECREES  
 Enforcement Action Date: 09/11/1991  
 Penalty Type: Not reported

Regulation Violated: 264.110-120.G  
 Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS  
 Date Violation Determined: 03/29/1988  
 Actual Date Achieved Compliance: 03/21/1989

Enforcement Action: WRITTEN INFORMAL  
 Enforcement Action Date: 06/03/1988  
 Penalty Type: Not reported

Enforcement Action: FINAL CONSENT DECREES  
 Enforcement Action Date: 09/11/1991  
 Penalty Type: Not reported

Regulation Violated: 264.90-94.F  
 Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS  
 Date Violation Determined: 03/29/1988  
 Actual Date Achieved Compliance: 03/21/1989

Enforcement Action: WRITTEN INFORMAL  
 Enforcement Action Date: 06/03/1988  
 Penalty Type: Not reported

Enforcement Action: FINAL CONSENT DECREES  
 Enforcement Action Date: 09/11/1991  
 Penalty Type: Not reported

Penalty Summary:

Penalty Description	Penalty Date	Penalty Amount	Lead Agency
Proposed Monetary Penalty	6/30/1994	200000	STATE

There are 22 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19960514
	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19960514
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19960614
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19940928
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19940928
	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19941103
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19941103
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19941103
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19941103
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19940928
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19910111
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901211
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901211
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19901211
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19910111
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19901211
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19890321
Other Evaluation	TSD-LAND BAN REQUIREMENTS	19890321

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

**E. I. DUPONT DE NEMOURS & CO (Continued)**

EDR ID Number  
 EPA ID Number

Database(s)

1000111309

Compliance Evaluation Inspection	GENERATOR-LAND BAN REQUIREMENTS	19890321
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19890321
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19890321
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19890321

**FINDS:**

- Other Pertinent Environmental Activity Identified at Site:
  - Integrated Compliance Information
  - National Compliance Data Base
  - National Emissions Inventory
  - National Emissions Trends
  - National Toxics Inventory
  - Resource Conservation and Recovery Act Information system
  - Toxics Release Inventory

**UST HIST:**

<p>Facility ID: 8471          Total Tanks: 28          Owner Address: P.O. BOX 310          ANTIOCH, CA 94509</p> <p>Tank Used for: WASTE          Tank Num: 1          Tank Capacity: 00751000          Type of Fuel: Not reported          Leak Detection: None          Contact Name: D.T. ARGYRIOU          Facility Type: Other</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC          Region: STATE</p> <p>Container Num: 101          Year Installed: 1969          Tank Construction: 4 inches</p> <p>Telephone: (415) 779-6371          Other Type: CHEMICAL MFG.</p>
<p>Facility ID: 8471          Total Tanks: 28          Owner Address: P.O. BOX 310          ANTIOCH, CA 94509</p> <p>Tank Used for: WASTE          Tank Num: 2          Tank Capacity: 02478000          Type of Fuel: Not reported          Leak Detection: None          Contact Name: D.T. ARGYRIOU          Facility Type: Other</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC          Region: STATE</p> <p>Container Num: 102          Year Installed: 1971          Tank Construction: 4 inches</p> <p>Telephone: (415) 779-6371          Other Type: CHEMICAL MFG.</p>
<p>Facility ID: 8471          Total Tanks: 28          Owner Address: P.O. BOX 310          ANTIOCH, CA 94509</p> <p>Tank Used for: WASTE          Tank Num: 3          Tank Capacity: 02260000          Type of Fuel: Not reported          Leak Detection: None          Contact Name: D.T. ARGYRIOU          Facility Type: Other</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC          Region: STATE</p> <p>Container Num: 103          Year Installed: 1972          Tank Construction: 4 inches</p> <p>Telephone: (415) 779-6371          Other Type: CHEMICAL MFG.</p>
<p>Facility ID: 8471          Total Tanks: 28          Owner Address: P.O. BOX 310          ANTIOCH, CA 94509</p> <p>Tank Used for: WASTE          Tank Num: 4</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC          Region: STATE</p> <p>Container Num: 104</p>

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

**E. I. DUPONT DE NEMOURS & CO (Continued)**

EDR ID Number  
 EPA ID Number

Database(s)

100011309

<p>Tank Capacity: 01870000          Type of Fuel: Not reported          Leak Detection: None          Contact Name: D.T. ARGYRIOU          Facility Type: Other</p>	<p>Year Installed: 1956          Tank Construction: 120 inches</p>
<p>Facility ID: 8471          Total Tanks: 28          Owner Address: P.O. BOX 310          ANTIOCH, CA 94509</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC          Region: STATE</p>
<p>Tank Used for: WASTE          Tank Num: 5          Tank Capacity: 01870000          Type of Fuel: Not reported          Leak Detection: None          Contact Name: D.T. ARGYRIOU          Facility Type: Other</p>	<p>Container Num: 105          Year Installed: 1956          Tank Construction: 120 inches</p>
<p>Facility ID: 8471          Total Tanks: 28          Owner Address: P.O. BOX 310          ANTIOCH, CA 94509</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC          Region: STATE</p>
<p>Tank Used for: WASTE          Tank Num: 6          Tank Capacity: 00001500          Type of Fuel: Not reported          Leak Detection: None          Contact Name: D.T. ARGYRIOU          Facility Type: Other</p>	<p>Container Num: 106          Year Installed: 1956          Tank Construction: 6 inches</p>
<p>Facility ID: 8471          Total Tanks: 28          Owner Address: P.O. BOX 310          ANTIOCH, CA 94509</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC          Region: STATE</p>
<p>Tank Used for: WASTE          Tank Num: 7          Tank Capacity: 00003800          Type of Fuel: Not reported          Leak Detection: None          Contact Name: D.T. ARGYRIOU          Facility Type: Other</p>	<p>Container Num: 107          Year Installed: 1972          Tank Construction: 8 inches</p>
<p>Facility ID: 8471          Total Tanks: 28          Owner Address: P.O. BOX 310          ANTIOCH, CA 94509</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC          Region: STATE</p>
<p>Tank Used for: WASTE          Tank Num: 8          Tank Capacity: 00001400          Type of Fuel: Not reported          Leak Detection: None          Contact Name: D.T. ARGYRIOU          Facility Type: Other</p>	<p>Container Num: 111          Year Installed: 1974          Tank Construction: 6 inches</p>
<p>Facility ID: 8471          Total Tanks: 28          Owner Address: P.O. BOX 310</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC          Region: STATE</p>

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

E. I. DUPONT DE NEMOURS & CO (Continued)

EDR ID Number  
EPA ID Number

Database(s)

ANTIOCH, CA 94509

Tank Used for:	Not Reported	Container Num:	112
Tank Num:	9	Year Installed:	1956
Tank Capacity:	00006227	Tank Construction:	10 inches
Type of Fuel:	Not reported	Telephone:	(415) 779-6371
Leak Detection:	None	Other Type:	CHEMICAL MFG.
Contact Name:	D.T. ARGYRIOU	Owner Name:	E.I. DU PONT DE NEMOURS&CO.INC
Facility Type:	Other	Region:	STATE

Facility ID: 8471  
Total Tanks: 28  
Owner Address: P.O. BOX 310  
ANTIOCH, CA 94509

Tank Used for:	Not Reported	Container Num:	113
Tank Num:	10	Year Installed:	1967
Tank Capacity:	00019400	Tank Construction:	10 inches
Type of Fuel:	Not reported	Telephone:	(415) 779-6371
Leak Detection:	None	Other Type:	CHEMICAL MFG.
Contact Name:	D.T. ARGYRIOU	Owner Name:	E.I. DU PONT DE NEMOURS&CO.INC
Facility Type:	Other	Region:	STATE

Facility ID: 8471  
Total Tanks: 28  
Owner Address: P.O. BOX 310  
ANTIOCH, CA 94509

Tank Used for:	Not Reported	Container Num:	114
Tank Num:	11	Year Installed:	1965
Tank Capacity:	00048800	Tank Construction:	12 inches
Type of Fuel:	Not reported	Telephone:	(415) 779-6371
Leak Detection:	None	Other Type:	CHEMICAL MFG.
Contact Name:	D.T. ARGYRIOU	Owner Name:	E.I. DU PONT DE NEMOURS&CO.INC
Facility Type:	Other	Region:	STATE

Facility ID: 8471  
Total Tanks: 28  
Owner Address: P.O. BOX 310  
ANTIOCH, CA 94509

Tank Used for:	Not Reported	Container Num:	115
Tank Num:	12	Year Installed:	1956
Tank Capacity:	00004320	Tank Construction:	8 inches
Type of Fuel:	Not reported	Telephone:	(415) 779-6371
Leak Detection:	None	Other Type:	CHEMICAL MFG.
Contact Name:	D.T. ARGYRIOU	Owner Name:	E.I. DU PONT DE NEMOURS&CO.INC
Facility Type:	Other	Region:	STATE

Facility ID: 8471  
Total Tanks: 28  
Owner Address: P.O. BOX 310  
ANTIOCH, CA 94509

Tank Used for:	WASTE	Container Num:	201
Tank Num:	13	Year Installed:	1961
Tank Capacity:	00002400	Tank Construction:	2 inches
Type of Fuel:	Not reported	Telephone:	(415) 779-6371
Leak Detection:	None	Other Type:	CHEMICAL MFG.
Contact Name:	D.T. ARGYRIOU	Owner Name:	E.I. DU PONT DE NEMOURS&CO.INC
Facility Type:	Other	Region:	STATE

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**E. I. DUPONT DE NEMOURS & CO (Continued)**

**1000111309**

<p>Facility ID: 8471            Total Tanks: 28            Owner Address: P.O. BOX 310            ANTIOCH, CA 94509            Tank Used for: WASTE            Tank Num: 14            Tank Capacity: 00000540            Type of Fuel: Not reported            Leak Detection: None            Contact Name: D.T. ARGYRIOU            Facility Type: Other</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC            Region: STATE            Container Num: 202            Year Installed: 1979            Tank Construction: 0.5 inches            Telephone: (415) 779-6371            Other Type: CHEMICAL MFG.</p>
<p>Facility ID: 8471            Total Tanks: 28            Owner Address: P.O. BOX 310            ANTIOCH, CA 94509            Tank Used for: WASTE            Tank Num: 15            Tank Capacity: 01000000            Type of Fuel: Not reported            Leak Detection: None            Contact Name: D.T. ARGYRIOU            Facility Type: Other</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC            Region: STATE            Container Num: 301            Year Installed: 1962            Tank Construction: Not Reported            Telephone: (415) 779-6371            Other Type: CHEMICAL MFG.</p>
<p>Facility ID: 8471            Total Tanks: 28            Owner Address: P.O. BOX 310            ANTIOCH, CA 94509            Tank Used for: WASTE            Tank Num: 16            Tank Capacity: 01000000            Type of Fuel: Not reported            Leak Detection: None            Contact Name: D.T. ARGYRIOU            Facility Type: Other</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC            Region: STATE            Container Num: 302            Year Installed: 1965            Tank Construction: Not Reported            Telephone: (415) 779-6371            Other Type: CHEMICAL MFG.</p>
<p>Facility ID: 8471            Total Tanks: 28            Owner Address: P.O. BOX 310            ANTIOCH, CA 94509            Tank Used for: WASTE            Tank Num: 17            Tank Capacity: 00042500            Type of Fuel: Not reported            Leak Detection: None            Contact Name: D.T. ARGYRIOU            Facility Type: Other</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC            Region: STATE            Container Num: 303            Year Installed: 1982            Tank Construction: 8 inches            Telephone: (415) 779-6371            Other Type: CHEMICAL MFG.</p>
<p>Facility ID: 8471            Total Tanks: 28            Owner Address: P.O. BOX 310            ANTIOCH, CA 94509            Tank Used for: WASTE            Tank Num: 18            Tank Capacity: 00035400            Type of Fuel: Not reported</p>	<p>Owner Name: E.I. DU PONT DE NEMOURS&amp;CO.INC            Region: STATE            Container Num: 304            Year Installed: 1971            Tank Construction: 8 inches</p>

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

E. I. DUPONT DE NEMOURS & CO (Continued)

1000111309

Leak Detection:	None	Telephone:	(415) 779-6371
Contact Name:	D.T. ARGYRIOU	Other Type:	CHEMICAL MFG.
Facility Type:	Other		
Facility ID:	8471	Owner Name:	E.I. DU PONT DE NEMOURS&CO.INC
Total Tanks:	28	Region:	STATE
Owner Address:	P.O. BOX 310 ANTIOCH, CA 94509		
Tank Used for:	WASTE		
Tank Num:	19	Container Num:	305
Tank Capacity:	00004300	Year Installed:	1962
Type of Fuel:	Not reported	Tank Construction:	10 inches
Leak Detection:	None		
Contact Name:	D.T. ARGYRIOU	Telephone:	(415) 779-6371
Facility Type:	Other	Other Type:	CHEMICAL MFG.
Facility ID:	8471	Owner Name:	E.I. DU PONT DE NEMOURS&CO.INC
Total Tanks:	28	Region:	STATE
Owner Address:	P.O. BOX 310 ANTIOCH, CA 94509		
Tank Used for:	WASTE		
Tank Num:	20	Container Num:	306
Tank Capacity:	00001300	Year Installed:	1984
Type of Fuel:	Not reported	Tank Construction:	3/8 inches
Leak Detection:	None		
Contact Name:	D.T. ARGYRIOU	Telephone:	(415) 779-6371
Facility Type:	Other	Other Type:	CHEMICAL MFG.
Facility ID:	8471	Owner Name:	E.I. DU PONT DE NEMOURS&CO.INC
Total Tanks:	28	Region:	STATE
Owner Address:	P.O. BOX 310 ANTIOCH, CA 94509		
Tank Used for:	WASTE		
Tank Num:	21	Container Num:	307
Tank Capacity:	00006000	Year Installed:	1962
Type of Fuel:	Not reported	Tank Construction:	10 inches
Leak Detection:	None		
Contact Name:	D.T. ARGYRIOU	Telephone:	(415) 779-6371
Facility Type:	Other	Other Type:	CHEMICAL MFG.
Facility ID:	8471	Owner Name:	E.I. DU PONT DE NEMOURS&CO.INC
Total Tanks:	28	Region:	STATE
Owner Address:	P.O. BOX 310 ANTIOCH, CA 94509		
Tank Used for:	PRODUCT		
Tank Num:	22	Container Num:	308
Tank Capacity:	00006988	Year Installed:	1963
Type of Fuel:	Not reported	Tank Construction:	0.25 inches
Leak Detection:	Not reported		
Contact Name:	D.T. ARGYRIOU	Telephone:	(415) 779-6371
Facility Type:	Other	Other Type:	CHEMICAL MFG.
Facility ID:	8471	Owner Name:	E.I. DU PONT DE NEMOURS&CO.INC
Total Tanks:	28	Region:	STATE
Owner Address:	P.O. BOX 310 ANTIOCH, CA 94509		
Tank Used for:	WASTE		

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

E. I. DUPONT DE NEMOURS & CO (Continued)

1000111309

Tank Num: 23  
Tank Capacity: 00000420  
Type of Fuel: Not reported  
Leak Detection: None  
Contact Name: D.T. ARGYRIOU  
Facility Type: Other

Container Num: 401  
Year Installed: 1956  
Tank Construction: 6 inches

Telephone: (415) 779-6371  
Other Type: CHEMICAL MFG.

Facility ID: 8471  
Total Tanks: 28  
Owner Address: P.O. BOX 310  
ANTIOCH, CA 94509

Owner Name: E.I. DU PONT DE NEMOURS&CO.INC  
Region: STATE

Tank Used for: PRODUCT  
Tank Num: 24  
Tank Capacity: 00025000  
Type of Fuel: Not reported  
Leak Detection: None  
Contact Name: D.T. ARGYRIOU  
Facility Type: Other

Container Num: 402  
Year Installed: 1956  
Tank Construction: 5/16 inches

Telephone: (415) 779-6371  
Other Type: CHEMICAL MFG.

Facility ID: 8471  
Total Tanks: 28  
Owner Address: P.O. BOX 310  
ANTIOCH, CA 94509

Owner Name: E.I. DU PONT DE NEMOURS&CO.INC  
Region: STATE

Tank Used for: PRODUCT  
Tank Num: 25  
Tank Capacity: 00001000  
Type of Fuel: DIESEL  
Leak Detection: Stock Inventor  
Contact Name: D.T. ARGYRIOU  
Facility Type: Other

Container Num: 403  
Year Installed: 1962  
Tank Construction: 0.25 inches

Telephone: (415) 779-6371  
Other Type: CHEMICAL MFG.

Facility ID: 8471  
Total Tanks: 28  
Owner Address: P.O. BOX 310  
ANTIOCH, CA 94509

Owner Name: E.I. DU PONT DE NEMOURS&CO.INC  
Region: STATE

Tank Used for: PRODUCT  
Tank Num: 26  
Tank Capacity: 00000515  
Type of Fuel: UNLEADED  
Leak Detection: Stock Inventor  
Contact Name: D.T. ARGYRIOU  
Facility Type: Other

Container Num: 404  
Year Installed: 1979  
Tank Construction: 12 gauge

Telephone: (415) 779-6371  
Other Type: CHEMICAL MFG.

Facility ID: 8471  
Total Tanks: 28  
Owner Address: P.O. BOX 310  
ANTIOCH, CA 94509

Owner Name: E.I. DU PONT DE NEMOURS&CO.INC  
Region: STATE

Tank Used for: PRODUCT  
Tank Num: 27  
Tank Capacity: 00005000  
Type of Fuel: REGULAR  
Leak Detection: Stock Inventor  
Contact Name: D.T. ARGYRIOU  
Facility Type: Other

Container Num: 405  
Year Installed: 1975  
Tank Construction: 0.25 inches

Telephone: (415) 779-6371  
Other Type: CHEMICAL MFG.

Facility ID: 8471  
Total Tanks: 28

Owner Name: E.I. DU PONT DE NEMOURS&CO.INC  
Region: STATE

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation

MAP FINDINGS

E. I. DUPONT DE NEMOURS & CO (Continued)

EDR ID Number  
EPA ID Number

Database(s)

1000111309

Owner Address: P.O. BOX 310  
ANTIOCH, CA 94509  
Tank Used for: WASTE  
Tank Num: 28  
Tank Capacity: 00001001  
Type of Fuel: Not reported  
Leak Detection: None  
Contact Name: D.T. ARGYRIOU  
Facility Type: Other  
Container Num: 406  
Year Installed: 1962  
Tank Construction: 6 inches  
Telephone: (415) 779-6371  
Other Type: CHEMICAL MFG.

A3  
Target  
Property

E I DUPONT DE NEMOURS & COMPANY INC  
6000 BRIDGEHEAD RD  
OAKLEY, CA 94561

HAZNET  
CA SLIC  
CONTRA COSTA CO. SITE LIST  
CA WDS  
EMI

S104573837  
N/A

Actual:  
22 ft.

Site 3 of 4 in cluster A

HAZNET:  
Gepaid: CAD009151671  
TSD EPA ID: CAD009452657  
Gen County: 7  
Tsd County: San Mateo  
Tons: .4250  
Waste Category: Other organic solids  
Disposal Method: Disposal, Land Fill  
Contact: E I DUPONT DE NEMOURS & CO INC  
Telephone: (302) 774-1000  
Mailing Address: 6000 BRIDGEHEAD RD  
OAKLEY, CA 94561 - 2940  
County: 7  
Gepaid: CAD009151671  
TSD EPA ID: CAD009452657  
Gen County: 7  
Tsd County: San Mateo  
Tons: 8.3058  
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
Disposal Method: Recycler  
Contact: E I DUPONT DE NEMOURS & CO INC  
Telephone: (302) 774-1000  
Mailing Address: 6000 BRIDGEHEAD RD  
OAKLEY, CA 94561 - 2940  
County: 7  
Gepaid: CAD009151671  
TSD EPA ID: CAD009452657  
Gen County: 7  
Tsd County: San Mateo  
Tons: .1500  
Waste Category: Laboratory waste chemicals  
Disposal Method: Treatment, Incineration  
Contact: E I DUPONT DE NEMOURS & CO INC  
Telephone: (302) 774-1000  
Mailing Address: 6000 BRIDGEHEAD RD  
OAKLEY, CA 94561 - 2940  
County: 7

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**E I DUPONT DE NEMOURS & COMPANY INC (Continued)**

**S104573837**

Gepaid: CAD009151671  
 TSD EPA ID: CAT000646117  
 Gen County: 7  
 Tsd County: Kings  
 Tons: .9000  
 Waste Category: Other organic solids  
 Disposal Method: Disposal, Other  
 Contact: E I DUPONT DE NEMOURS & CO INC  
 Telephone: (302) 774-1000  
 Mailing Address: 6000 BRIDGEHEAD RD  
 OAKLEY, CA 94561 - 2940  
 County 7

Gepaid: CAD009151671  
 TSD EPA ID: CAT000646117  
 Gen County: 7  
 Tsd County: Kings  
 Tons: .1000  
 Waste Category: Waste oil and mixed oil  
 Disposal Method: Not reported  
 Contact: E I DUPONT DE NEMOURS & CO INC  
 Telephone: (302) 774-1000  
 Mailing Address: 6000 BRIDGEHEAD RD  
 OAKLEY, CA 94561 - 2940  
 County 7

[Click this hyperlink](#) while viewing on your computer to access 196 additional CA HAZNET record(s) in the EDR Site Report.

**SLIC Region 5:**

Facility Status: RI, REM  
 Pollutant: PCE,TCE, DCE, other VOCs, Pb, As, benzene, freon 113 Facility is a Spill or site  
 Report Date: / / Date Filed: / /  
 Lead Agency: DTSC

**WDS:**

Facility ID: 5S 071016773  
 Facility Contact: BOBBY C DEEVER Facility Telephone (925) 757-5836  
 SIC Code: 0 SIC Code 2: Not reported  
 Agency Name: E I DUPONT DE NEMOURS & CO  
 Agency Address: 6000 Bridgehead Rd  
 Oakley 94561 - 2940  
 Agency Contact: BOBBY C DEEVER Agency Phone: (925) 757-5836  
 Design Flow: 0 Million Gal/Day Baseline Flow: 0 Million Gal/Day  
 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.  
 Agency Type: Private  
 Waste Type: Not reported  
 Threat 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

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**E I DUPONT DE NEMOURS & COMPANY INC (Continued)**

**S104573837**

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.

Reclamation: Not reported  
 POTW: Not reported  
 NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board  
 Subregion: 0

Contra Costa SL:  
 Facility ID: 708471  
 Region: CONTRA COSTA  
 Facility Status: ACTIVE  
 Inactive Date: Not reported  
 Tier: Not reported  
 # Of ASTs On Property: Not reported  
 Program Status:  
 UST: Not reported  
 HWG: Yes  
 HMMP: Not reported  
 AGT: Not reported  
 ARP: Not reported

EMISSIONS :  
 Facility ID : 21  
 Air District Code : BA  
 SIC Code : 3869  
 Total Priority Score : Not reported  
 Health Risk Assessment : Not reported  
 Non-cancer Chronic Haz Index : Not reported  
 Non-cancer Acute Haz Index : Not reported  
 Air Basin : SF  
 Air District Name : BAY AREA AQMD  
 Community Health Air Pollution Info System : Not reported  
 Consolidated Emission Reporting Rule : Not reported  
 County Code : 7  
 County ID : 7

**A4 ANTIOCH FACILITY**  
**Target 6000 BRIDGEHEAD RD**  
**Property ANTIOCH CA, CA 94509**

**CHMIRS S101310468**  
**WMUDS/SWAT N/A**

**Site 4 of 4 in cluster A**

**Actual:  
 22 ft.**

WMUDS:  
 Region: 5S  
 Date of Last Facility Edit: Not reported  
 Last Facility Editors: Not reported  
 Waste Discharge System ID: 5B072038001  
 Solid Waste Information ID: Not reported  
 Waste Discharge System: True  
 Solid Waste Assessment Test Program: False  
 Facility Name: Not reported  
 Toxic Pits Cleanup Act Program: False  
 Resource Conservation Recovery Act Program: True  
 Department of Defense: False  
 Open to Public: False  
 Number of WMUDS at Facility: 1  
 Facility Telephone: Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**ANTIOCH FACILITY (Continued)**

S101310468

Primary Standard Industrial Classification: Secondary Standard Industrial Classification: Solid Waste Assessment Test Program Name: NPID: Tonnage: Regional Board ID: Municipal Solid Waste: Superorder: Sub Chapter 15: Reg. Board Project Officer: Section Range: RCRA Facility: Waste Discharge Requirements: Base Meridian: Waste List: Facility Description: Self-Monitoring Rept. Frequency: Threat to Water Quality:  Facility Type:  Complexity:  Prime Waste:  2nd Waste Type:  Agency: Address:  Department: Contact: Telephone: Type: Landowner: Address: Telephone: Contact:	2816 Not reported Not reported CA0004936 0 Not reported False False True RJ Not reported Yes A Not reported False Not reported Monthly Submittal  Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.  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.  Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.  Process Waste (Waste produced as part of the industrial/manufacturing process) - Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.  Domestic Sewage - Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.  E.I. DU PONT DE NEMOURS & CO. 6000 BRIDGEHEAD RD ANTIOCH CA 94509  Not reported ROBERT DOREMUS, JR. (925) 779-6265 Private Not reported Not reported Not reported Not reported
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Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

ANTIOCH FACILITY (Continued)

S101310468

CHMIRS:

OES Control Number: 009953  
Chemical Name: sodium hydroxide solution  
Extent of Release: Not reported  
Property Use: Not reported  
Incident Date: Not reported  
Date Completed: Not reported  
Time Completed : Not reported  
Agency Id Number : Not reported  
Agency Incident Number : Not reported  
OES Incident Number : 009953  
Time Notified : Not reported  
Surrounding Area : Not reported  
Estimated Temperature : Not reported  
Property Management : Not reported  
More Than Two Substances Involved? : Not reported  
Special Studies 1 : Not reported  
Special Studies 2 : Not reported  
Special Studies 3 : Not reported  
Special Studies 4 : Not reported  
Special Studies 5 : Not reported  
Special Studies 6 : Not reported  
Responding Agency Personnel # Of Injuries : Not reported  
Responding Agency Personnel # Of Fatalities : NO  
Resp Agency Personnel # Of Decontaminated : Not reported  
Others Number Of Decontaminated : Not reported  
Others Number Of Injuries : Not reported  
Others Number Of Fatalities : Not reported  
Vehicle Make/year : Not reported  
Vehicle License Number : Not reported  
Vehicle State : Not reported  
Vehicle Id Number : Not reported  
CA/DOT/PUC/ICC Number : Not reported  
Company Name : Not reported  
Reporting Officer Name/ID : Not reported  
Report Date : Not reported  
Comments : Not reported  
Facility Telephone Number : Not reported  
Waterway Involved : YES  
Waterway : Not reported  
Spill Site : OTHER  
Cleanup By : dupont  
Containment : NO  
What Happened : Not reported  
Type : CHEMICAL  
Other : Not reported  
Chemical 1 : Not Reported  
Chemical 2 : Not Reported  
Chemical 3 : Not Reported  
Date/Time : Not reported  
Evacuations : NO  
True date : 12/31/03  
Year : 1995  
Agency : private cit.  
BBLS : Not reported  
Cups : Not reported  
CUFT : Not reported

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**ANTIOCH FACILITY (Continued)**

**S101310468**

Gallons :	Not reported
Grams :	Not reported
Pounds :	Not reported
Liters :	Not reported
Ounces :	Not reported
Pints :	Not reported
Quarts :	Not reported
Sheen :	Not reported
Tons :	Not reported
Unknown :	Not reported
Description :	electricity shutoff caused water valve to open causing an overflow.
Incident date :	9/9/95 1500
Admin Agency :	Not reported
OES date :	9/9/1995
OES time :	09:59:23 PM
Amount :	400 lbs.

**B5**  
**SSE**  
 1/8-1/4  
 930 ft.

**DELTA SCRAP & SALVAGE**  
 1371 MAIN ST  
 OAKLEY, CA 94561

**CONTRA COSTA CO. SITE LIST** **S103172297**  
 N/A

**Relative:**  
**Higher**

**Site 1 of 2 in cluster B**

**Actual:**  
**25 ft.**

Contra Costa SL:	
Facility ID:	772395
Region:	CONTRA COSTA
Facility Status:	INACTIVE
Inactive Date:	2001-03-12 00:00:00
Tier:	Not reported
# Of ASTs On Property:	Not reported
Program Status:	
UST:	Not reported
HWG:	Not reported
HMMP:	Not reported
AGT:	Not reported
ARP:	Not reported

**B6**  
**SSE**  
 1/8-1/4  
 930 ft.

**GE SALES/DELTA SCRAP**  
 1371 MAIN ST  
 OAKLEY, CA

**CONTRA COSTA CO. SITE LIST** **S105455310**  
 N/A

**Relative:**  
**Higher**

**Site 2 of 2 in cluster B**

**Actual:**  
**25 ft.**

Contra Costa SL:	
Facility ID:	772867
Region:	CONTRA COSTA
Facility Status:	ACTIVE
Inactive Date:	Not reported
Tier:	Not reported
# Of ASTs On Property:	Not reported
Program Status:	
UST:	Not reported
HWG:	Yes
HMMP:	Yes
AGT:	Not reported
ARP:	Not reported

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**C7**      **MELLO'S SHEET METAL**  
 South      1241 MAIN ST  
 1/8-1/4      OAKLEY, CA  
 933 ft.

CONTRA COSTA CO. SITE LIST

S106175820  
 N/A

Relative:  
 Higher      Site 1 of 2 in cluster C

Contra Costa SL:  
 Facility ID:              770097  
 Region:                  CONTRA COSTA  
 Facility Status:        ACTIVE  
 Inactive Date:         Not reported  
 Tier:                     Not reported  
 # Of ASTs On Property: Not reported  
 Program Status:  
     UST:                    X  
     HWG:                  Yes  
     HMMP:                Yes  
     AGT:                  Not reported  
     ARP:                  Not reported

**C8**      **MELLO S SHEET METAL**  
 South      1241 MAIN ST  
 1/8-1/4      OAKLEY, CA 94561  
 933 ft.

UST      U003971242  
 N/A

Relative:  
 Higher      Site 2 of 2 in cluster C

State UST:  
 Facility ID:              770097  
 Region:                  STATE  
 Local Agency:        07000

**D9**      **PALEX**  
 SSE      1315 MAIN ST  
 1/8-1/4      OAKLEY, CA 94561  
 984 ft.

CONTRA COSTA CO. SITE LIST  
 CA WDS

HAZNET      S102261399  
 N/A

Relative:  
 Higher      Site 1 of 2 in cluster D

HAZNET:  
 Gepaid:                  CAL000092163  
 TSD EPA ID:            CAD053044053  
 Gen County:            7  
 Tsd County:            1  
 Tons:                    .2124  
 Waste Category:      Liquids with halogenated organic compounds > 1000 mg/l  
 Disposal Method:    Transfer Station  
 Contact:                BAY AREA PALLET CO  
 Telephone:            (510) 625-2020  
 Mailing Address:    1315 MAIN STREET  
                                  OAKLEY, CA 94561  
 County                  7  
 Gepaid:                  CAL000092163  
 TSD EPA ID:            CAL000161743  
 Gen County:            7  
 Tsd County:            Santa Clara  
 Tons:                    0.2293  
 Waste Category:      Aqueous solution with less than 10% total organic residues  
 Disposal Method:    Transfer Station  
 Contact:                BAY AREA PALLET CO  
 Telephone:            (510) 625-2020  
 Mailing Address:    1315 MAIN STREET

Map ID  
Direction  
Distance  
Distance (ft.)  
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

PALEX (Continued)

S102261399

County OAKLEY, CA 94561  
7  
Gepaid: CAL000092163  
TSD EPA ID: CAD980818645  
Gen County: 7  
Tsd County: Kern  
Tons: 1.9599  
Waste Category: Aqueous solution with less than 10% total organic residues  
Disposal Method: Transfer Station  
Contact: BAY AREA PALLET CO  
Telephone: (510) 625-2020  
Mailing Address: 1315 MAIN STREET  
OAKLEY, CA 94561  
County 7  
Gepaid: CAL000092163  
TSD EPA ID: CAL000051079  
Gen County: 7  
Tsd County: Sacramento  
Tons: 1.4178  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Transfer Station  
Contact: BAY AREA PALLET CO  
Telephone: (510) 625-2020  
Mailing Address: 1315 MAIN STREET  
OAKLEY, CA 94561  
County 7  
Gepaid: CAL000092163  
TSD EPA ID: Not reported  
Gen County: Contra Costa  
Tsd County: Alameda  
Tons: 0.62  
Waste Category: Liquids with halogenated organic compounds > 1000 mg/l  
Disposal Method: Transfer Station  
Contact: VINCE SHELDON GENERAL MANAGER  
Telephone: (925) 625-2020  
Mailing Address: 1315 MAIN STREET  
OAKLEY, CA 94561  
County Not reported

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

WDS:

Facility ID: 5S 07I013552  
Facility Contact VINCE SHELDON Facility Telephone (925) 625-2020  
SIC Code: 2448 SIC Code 2: Not reported  
Agency Name: BAY AREA PALLET CO  
Agency Address: 1315 MAIN ST  
OAKLEY 94561  
Agency Contact: VINCE SHELDON Agency Phone: (925) 625-2020  
Design Flow: 0 Million Gal/Day Baseline Flow: 0 Million Gal/Day  
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)  
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.  
Agency Type: Private

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**PALEX (Continued)**

**S102261399**

**Waste Type:** Stormwater Runoff - Inert/influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.

**Threat 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.

**Reclamation:** No reclamation requirements associated with this facility.

**POTW:** The facility is not a POTW.

**NPDES Number:** CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

**Subregion:** 0

**Contra Costa SL:**

Facility ID:	771316
Region:	CONTRA COSTA
Facility Status:	ACTIVE
Inactive Date:	Not reported
Tier:	Not reported
# Of ASTs On Property:	Not reported
Program Status:	
UST:	Not reported
HWG:	Yes
HMMP:	Yes
AGT:	Yes
ARP:	Not reported

D10  
 SSE  
 1/8-1/4  
 1032 ft.

**KAMPS PROPANE**  
 1433 MAIN ST  
 OAKLEY, CA

**CONTRA COSTA CO. SITE LIST** S102261400  
 N/A

**Site 2 of 2 in cluster D**

**Relative:**  
 Higher

**Contra Costa SL:**

Facility ID:	707807
Region:	CONTRA COSTA
Facility Status:	ACTIVE
Inactive Date:	Not reported
Tier:	Not reported
# Of ASTs On Property:	Not reported
Program Status:	
UST:	Not reported
HWG:	Not reported
HMMP:	Yes
AGT:	Not reported
ARP:	Not reported

**Actual:**  
 26 ft.

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

11  
 WSW  
 1/4-1/2  
 1683 ft.

NEW BRIDGE MARINA  
 6325 BRIDGEHEAD RD  
 ANTIOCH, CA 94509

HAZNET  
 LUST  
 Cortese

S103979159  
 N/A

Relative:  
 Higher

Actual:  
 29 ft.

State LUST:

Cross Street:	WILBER AVE	Confirm Leak:	1998-11-25 00:00:00
Qty Leaked:	Not reported	Prelim Assess:	1999-03-19 00:00:00
Case Number:	070093	Remed Plan:	Not reported
Reg Board:	0		
Chemical:	Gasoline		
Lead Agency:	Regional Board		
Local Agency :	07000		
Case Type:	Aquifer affected		
Status:	Preliminary site assessment underway		
Review Date:	1998-11-25 00:00:00		
Workplan:	1999-03-19 00:00:00		
Pollution Char:	Not reported		
Remed Action:	Not reported		
Monitoring:	Not reported		
Close Date:	Not reported		
Release Date:	Not reported		
Cleanup Fund Id :	Not reported		
Discover Date :	Not reported		
Enforcement Dt :	2000-10-06 00:00:00		
Enf Type:	None Taken		
Enter Date :	2000-01-13 00:00:00		
Funding:	Not reported		
Staff Initials:	BRU		
How Discovered:	Tank Closure		
How Stopped:	Not reported		
Interim :	Not reported		
Leak Cause:	UNK		
Leak Source:	UNK		
MTBE Date :	2000-04-26 00:00:00		
Max MTBE GW :	9520.00 Parts per Billion		
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected		
Priority:	High priority		
Local Case # :	0		
Beneficial:	Not reported		
Staff :	PMV		
GW Qualifier :	=		
Max MTBE Soil :	730 Parts per Million		
Soil Qualifier :	=		
Hydr Basin #:	SAN JOAQUIN VALLEY (		
Operator :	Not reported		
Oversight Prgm:	LUST		
Review Date :	2002-01-03 00:00:00		
Stop Date :	Not reported		
Work Suspended :	No		
Responsible Party:	NEW BRIDGE MARINA		
RP Address:	6325 BRIDGEHEAD RD, ANTIOCH, CA 94509		
Global Id:	T0601300810		
Org Name:	Not reported		
Contact Person:	Not reported		
MTBE Conc:	9		
Mtbe Fuel:	1		
Water System Name:	Not reported		
Well Name:	Not reported		

Map ID  
 Direction  
 Distance  
 Distance (ft.)  
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**NEW BRIDGE MARINA (Continued)**

**S103979159**

Distance To Lust: 1  
 Waste Discharge Global ID: Not reported  
 Waste Disch Assigned Name: Not reported

**LUST Region 5:**

Substance: GASOLINE  
 Case Type: Aquifer affected  
 Program: LUST  
 Staff Initials: PMV  
 Status: Preliminary site assessment underway  
 MTBE Code: 7  
 Lead Agency: Regional  
 Case Number: 070093

**HAZNET:**

Gepaid: CAC001371960  
 TSD EPA ID: CAD099452708  
 Gen County: 7  
 Tsd County: Los Angeles  
 Tons: 1.0842  
 Waste Category: Unspecified oil-containing waste  
 Disposal Method: Recycler  
 Contact: NEW BRIDGE MARINA  
 Telephone: (650) 328-5776  
 Mailing Address: 6325 BRIDGEHEAD RD  
 ANTIOCH, CA 94509  
 County 7

Gepaid: CAC001371960  
 TSD EPA ID: CAD099452708  
 Gen County: 7  
 Tsd County: Los Angeles  
 Tons: 0.6255  
 Waste Category: Unspecified oil-containing waste  
 Disposal Method: Recycler  
 Contact: NEW BRIDGE MARINA  
 Telephone: (650) 328-5776  
 Mailing Address: 6325 BRIDGEHEAD RD  
 ANTIOCH, CA 94509  
 County 7

**CORTESE:**

Region: CORTESE  
 Fac Address 2: 6325 BRIDGEHEAD RD

12  
 WSW  
 1/4-1/2  
 1853 ft.

**OAKLEY BUILDERS SUPPLY**  
 800 MAIN ST  
 OAKLEY, CA 94561

**LUST** S105035163  
 Cortese N/A  
 CONTRA COSTA CO. SITE LIST

**Relative:**  
 Higher

**State LUST:**

Cross Street: Not reported  
 Qty Leaked: Not reported  
 Case Number: 070024  
 Reg Board: 0  
 Chemical: Gasoline  
 Lead Agency: Regional Board  
 Local Agency: 07000  
 Case Type: Soil only  
 Status: Case Closed  
 Review Date: Not reported  
 Workplan: 1987-08-19 00:00:00

**Actual:**  
 34 ft.

Confirm Leak: Not reported  
 Prelim Assess: 1987-08-19 00:00:00

