



ENVIRONMENTAL HEALTH DEPARTMENT
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

November 30, 2010

Shirley B. Hopkins Trust
1745 Shuey Avenue
Walnut Creek, CA 94596

Richard Sciortino
2528 Adeline Street
Oakland, CA 94607

Subject: Fuel Leak Case No. RO0000463 and GeoTracker Global ID T0600102135, Aervoe Pacific,
2528 Adeline Street, Oakland, CA 94607

Dear Ms. Hopkins & Mr. Sciortino:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Residual concentrations of gasoline and diesel range petroleum hydrocarbons were detected in groundwater at concentrations ranging from 630 to 340 µg/L and residual concentrations of 1,1-DCA and 1,1-DCE were detected at concentration of 100 and 120 µg/L, respectively, at the site.

If you have any questions, please call Paresh Khatri at (510) 777-2478. Thank you.

Sincerely,

Donna L. Drogos, P.E.
Division Chief

Enclosures: 1. Remedial Action Completion Certificate
2. Case Closure Summary

cc:

Ms. Cherie McCaulou (w/enc)
SF- Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612
(Sent via E-mail to:
CMccaulou@waterboards.ca.gov)

Closure Unit (w/enc)
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120
(Sent via E-mail)

Paresh Khatri (w/orig enc), D. Drogos (w/enc), T. Le-Khan (w/enc)



November 30, 2010

Shirley B. Hopkins Trust
1745 Shuey Avenue
Walnut Creek, CA 94596

Richard Sciortino
2528 Adeline Street
Oakland, CA 94607

REMEDIAL ACTION COMPLETION CERTIFICATE

Subject: Fuel Leak Case No. RO0000463 and GeoTracker Global ID T0600102135, Aervoe Pacific,
2528 Adeline Street, Oakland, CA 94607

Dear Ms. Hopkins & Mr. Sciortino:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

Please contact our office if you have any questions regarding this matter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ariu Levi', written over a white background.

Ariu Levi
Director
Alameda County Environmental Health

**CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

I. AGENCY INFORMATION

Date: August 19, 2008

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 777-2478
Responsible Staff Person: Paresh Khatri	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Aervoe Pacific		
Site Facility Address: 2528 Adeline Street, Oakland, California		
RB Case No.: 01-2321	Local Case No.: 266	LOP Case No.: RO0000463
URF Filing Date: --	Global ID No.: T0600101632	APN: 5-436-1
Responsible Parties	Addresses	Phone Numbers
Shirley B. Hopkins Trust	1745 Shuey Ave., Walnut Creek, CA 94596	
Richard Sciortino	2528 Adeline Street, Oakland, CA 94607	

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	1 x 550-gallon	Great Western Solvent	Removed	June 1987
2	1 x 1,000-gallon	Kerosene	Removed	August 4, 1988
Piping			Removed	1987/1988

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown		
Site characterization complete? Yes	Date Approved By Oversight Agency:	
Monitoring wells installed? Yes	Number: 3	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 3.99 ft bgs	Lowest Depth: 8.8 ft bgs	Flow Direction: Assumed West to Northwesterly
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: A well survey was not conducted. Considering the non-migratory residual concentrations of dissolved phase petroleum hydrocarbons, solvents, and barium in the groundwater that is confined to the primary source areas at the Site, no water wells, deeper drinking water aquifers, surface water or other sensitive receptors are likely to be impacted. Therefore, it appears likely that the contaminant plume does not extend beyond the subject property and a well survey does not appear warranted.

Are drinking water wells affected? No	Aquifer Name: East Bay Plain Groundwater Basin
Is surface water affected? No	Nearest SW Name: San Francisco Bay, located approximately 2 miles west of the site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health & Oakland Fire Department, Fire Prevention Bureau

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	One 550-gallon ? One 1,000-gallon	Disposal to Unknown Destination Disposal to Unknown Destination	06/1987 08/1988
Piping	Unknown	Disposal, unknown location	06/1987 & 08/1988
Free Product	NA	---	---
Soil	NA	---	---
Groundwater	NA	---	---

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP

(Please see Attachments for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	160 (06-022-2, 8.5 ft bgs, 06/01/1987)	<1.0 (11/2002)	2,800 (Former Well, 3/31/1995)	630 (MW-1, 11/21/2002)
TPH (Diesel/Kerosene)	<10 (#1, 08/1988)	NA	1,600 (Former Well, 3/31/1995)	250/160 (MW-1, 7/14/1998)
TPH (Motor Oil)/TOG	NA	NA	37,000 (Former Well, 3/31/1995)	<500 (MW-1, 10/31/1996)
Barium	67,000 (2, 08/1995)	67,000/160 (2, 8/95 / B-3, 1 ft bgs, 11/2002)	28,000 (Former Well, 3/31/1995)	220 (MW-1, 7/31/1997)
Benzene	11 ¹ (06-022-2, 8.5 ft bgs, 06/01/1987)	11 ¹ (06-022-2, 8.5 ft bgs, 06/01/1987)	4.5 (Former Well, 3/31/1995)	<0.5 (MW-1, 11/21/2002)
Toluene	11 ¹ (06-022-2, 8.5 ft bgs, 06/01/1987)	11 ¹ (06-022-2, 8.5 ft bgs, 06/01/1987)	49 (Former Well, 3/31/1995)	<0.5 (MW-1, 11/21/2002)
Ethylbenzene	NA	<0.005 (11/2002)	34 (Former Well, 3/31/1995)	<0.5 (MW-1, 11/21/2002)
Xylenes	<0.5 (06-022-2, 8.5 ft bgs, 06/01/1987)	<0.005 (11/2002)	270 (Former Well, 3/31/1995)	<0.5 (MW-1, 11/21/2002)
MTBE	NA	<0.005 (11/2002)	NA	<5 (MW-1, 11/21/2002)
Lead	49 (3 @ 2.0', 08-1995)	49 (3 @ 2.0', 08-1995)	NA	NA
1,1-DCA	--	--	100 (MW-2, 11/21/2002)	100 (MW-2, 11/21/2002)
1,1-DCE	--	--	400 (MW-2, 04/29/1996)	120 (MW-2, 11/21/2002)
PCE	--	--	<13 (MW-2, 08/15/1995)	1.4 (MW-3, 11/21/2002)
TCE	--	--	<13 (MW-2, 08/15/1995)	4.4 (MW-3, 11/21/2002)

¹ Soil sample collected below the UST. DTW ranges between 3.99 to 8.8 ft bgs. Therefore, soil sample was likely saturated and may not be representative of vadoze zone soil conditions.

² Other VOCs analyzed (groundwater µg/L after cleanup): NA MtBE, NA TBA, NA DIPE, NA ETBE, NA TAME, NA EDB, NA 1,2-DCA, NA EtOH

³ Other VOCs not analyzed (groundwater ppb before cleanup): NA MtBE, NA TBA, NA DIPE, NA ETBE, NA TAME, NA EDB, NA 1,2-DCA, NA EtOH

⁴ Other VOCs (Soil mg/kg after cleanup): NA TBA, NA DIPE, NA ETBE, NA TAME, NA EtOH,

⁵ Other VOCs (Soil mg/kg before cleanup): NA MtBE, NA TBA, NA TAME, < NA DIPE, NA EtOH

NA - Not Analyzed

Site History and Description of Corrective Actions:

The Aervoe Pacific site is located at the southeast corner of Adeline Street and 26th Street in west Oakland, just south of the boundary between Oakland and Emeryville. The site and immediately adjacent properties are currently zoned commercial. However for contaminant risk comparison purposes, the residual contamination has been compared to future residential land-use scenario. The general terrain in the Site vicinity is flat with a gradual surface gradient to the west towards San Francisco Bay. Groundwater studies conducted on and off-site have indicated that the groundwater flow direction is towards the west.

The site is occupied by a single-story building with an interior that has been partitioned and finished for use a promotion and graphic design business. Exterior areas are paved with the monitoring wells located outside of the building with one well (MW-2) located in an interior area.

Two underground storage tanks (USTs) were removed from the Site in the later 1980's. The tanks were reportedly situated adjacent to one another at the northeast corner of the site. An Unauthorized Release Form was filed following the removal of the first UST in June 1987. Soil samples were collected from the bottom of the excavation underneath the

former ends of the UST. Soil sample analytical results detected 160 mg/kg of total petroleum hydrocarbons (TPH) as gasoline, 11 mg/kg benzene, and 11 mg/kg toluene. It is reported that this UST contained Great Western Solvent 225 for an unspecified period of time. According to Great Western Chemical Company of Richmond, Solvent 225 is comprised of light aliphatic naphtha, toluene, N-heptane, and cyclohexane. Groundwater samples obtained from a well located in the UST area (referred to as "Former Well") detected a variety of petroleum hydrocarbons, volatile organics, and barium.

The second UST that reportedly stored kerosene was removed from the site in August 1988. Tank removal and soil sampling overseen by Uriah indicated that two soil samples collected from beneath the UST did not contain detectable concentrations of TPH. Therefore, it did not appear that there had been significant previous releases from this UST.

The former well was abandoned in 1995 since the integrity of this well was of concern, and three new wells and three borings were subsequently installed. Groundwater sampling of the three wells occurred periodically between 1995 through 2002. Chemicals of concern included in the analytical suite were volatile organic compounds (VOCs), petroleum hydrocarbons, barium, and selenium. Concentrations of barium ranged from 820 to 67,000 mg/kg in the six samples collected from within the former tank pit area.

On November 21, 2002, Furgro oversaw the installation of five borings (B-1 through B-5) to depths of approximately 15 to 18 feet bgs using a limited access direct push rig. Two borings were installed within the former UST area, and the remaining three borings were located inside the warehouse structure, and along the east and south building walls. The boring were continuously cored for lithology. Grab groundwater samples were collected from borings B-3 through B-5 and analyzed for VOCs. Barium concentrations ranged from 50 mg/kg to 160 mg/kg. Considering all the data collected to date, it is apparent that the highest concentrations of barium are associated with the fill placed within the former Great Western Solvent UST, and/or activities conducted in this area. No TPH-g, BTEX, or MtBE were detected in any of the soil samples. Low concentrations of VOCs (1,1-DCA, 1,1-DCE, PCE, and TCE) were detected in groundwater. No VOCs were detected in MW-1 located closest to the former USTs.

According to Subsurface Consultants, Inc. (SCI), the elevated concentrations of metals (barium) in shallow soil appear to be localized to the former UST pit, and therefore may represent impacted fill placed within the tank pit following removal activities. Barium and selenium concentrations measured in groundwater do not suggest any correlation to the presence of the impacted fill materials. As such, the groundwater concentrations of barium and selenium may represent background concentrations for the area.

VOCs have been detected regularly in monitoring wells MW-2 and MW-3, along the Adeline Street side of the property. According to SCI, the source of the VOCs is unknown. However, the property is situated in a historic mixed commercial and residential use area.

A supplemental Risk Assessment was presented in Furgro's April 2003 Report. According to Furgro, TPH, BTEX, and MtBE were below Regional Water Quality Control Board's RBSLs and determine that these residual concentrations do not pose a significant risk to human health or the environment.

Elevated concentrations of barium detected in soil (67,000 mg/kg) and groundwater (28,000 µg/L) have been located within the former UST area. Concentrations of barium located outside the UST pit area ranged from 37 to 220 mg/kg, with an average of 116 mg/kg. This data suggests that a risk of exposure to high levels of barium is not widespread across the site. The concentrations detected in the area of concern (the former UST pit) would only represent a risk if a direct pathway for contact were completed, which is not currently the case since the soil in the former UST pit is capped with asphalt. The elevated barium concentrations in groundwater collected from the "former well" also appears to skew the groundwater data. The "former well" was accepted for closure due to concerns about the integrity of wells' surface seal. The average barium concentrations detected in groundwater outside of the former tank area can be observed by reviewing the historic data of samples obtained from the existing groundwater monitoring wells. The barium concentrations in these wells have ranged from 33 to 270 µg/L. The highest concentration of barium was detected at 28,000 µg/L a groundwater sample collected from the "former well" located between the former USTs at the site was. The barium appears to be localized to the former UST area as indicated by the concentration gradient.

Although a risk assessment consisting of a comparison of site concentrations of contaminants to RWQCB RBSLs was conducted by Furgro, it appears prudent to evaluate the site concentrations to the more recently revised RWQCB's Environmental Screening Levels (ESLs). Therefore, site concentrations were compared to applicable RWQCB ESLs. Residual concentrations of TPH-g (160 mg/kg) benzene (11 mg/kg), and toluene (11 mg/kg) exceed the applicable ESL of 83 for TPH-g, 0.044 mg/kg for benzene, and 2.9 mg/kg for benzene for residential land-use risk scenario where groundwater is a current or potential drinking water resource. However, these samples were collected approximately between 8 to 10 ft bgs. Depth to water at the site ranges from 3.99 to 8.8 ft bgs. Therefore, the soil samples may not be representative of vadose zone soil conditions and may be more indicative of site groundwater conditions. Barium was detected at 67,000 mg/kg, significantly above its respective ESL of 750 mg/kg. However, as stated above, the barium appears to be localized to the fill material and does not appear to be widespread at the site. The site average barium concentration, discounting the barium concentrations detected in the fill, of 116 mg/kg is below the ESL. No other concentration of contaminants in soil were detected above the ESLs. Therefore, the residual concentrations of

contaminants in soil do not appear to pose a potential risk to human health or the environment under the current commercial land use and building configuration.

Gasoline and diesel range petroleum hydrocarbons were detected at a concentrations ranging from 630 to 340 µg/L, respectively slightly above its ESL of 100 µg/L. However, the contaminant plume appears stable and BTEX has been detected below the laboratory detection limits. Although the origin of solvents is unknown, 100 µg/L of 1,1-DCA, 120 µg/L 1,1-DCE, 1.4 µg/L PCE, and 4.4 µg/L TCE were detected at the site with 1,1-DCA and 1,1-DCE detected above their respective ESLs of 5 µg/L and 6 µg/L. However, the 1,1-DCA and 1,1-DCE concentrations are below the contaminant volatilization to indoor air residential land-use scenario ESL of 1,000 µg/L and 6,300 µg/L, respectively. Therefore the residual concentrations of contaminants detected in groundwater do not appear to pose a significant risk to human health or the environment.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a significant risk to human health based upon current land use and conditions.		
Site Management Requirements: City of Oakland Building Department has been notified that should excavation or development of the property be proposed that may encounter impacted soil or groundwater, Alameda County Environmental Health must be notified as required by Government Code Section 65850.2.2. The current property owner/developer must submit a soil and groundwater management plan for review prior to any construction activities. Please note that case closure for the fuel leak site is granted for commercial land use. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated.		
Should corrective action be reviewed if land use changes? Yes.		
Was a deed restriction or deed notification filed? No	Date Recorded: --	
Monitoring Wells Decommissioned: No	Number Decommissioned: 3	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

Residual concentrations of gasoline and diesel range petroleum hydrocarbons were detected in groundwater at concentrations ranging from 630 to 340 µg/L and residual concentrations of 1,1-DCA and 1,1-DCE were detected at concentration of 100 and 120 µg/L, respectively, which exceed the ESLs where groundwater is a potential drinking water source. The concentrations of gasoline and diesel range petroleum hydrocarbons and VOCs are expected to decrease over time as a result of biodegradation and natural attenuation processes. Please note that case closure for the fuel leak site is granted for commercial land use. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated.

Conclusion:

Alameda County Environmental Health staff consider that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based upon the information available in our files to date. No further investigation or cleanup is necessary. ACEH staff recommend case closure for this site based on the current commercial use of the site. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Paresh Khatri	Title: Hazardous Materials Specialist
Signature: <i>Paresh Khatri</i>	Date: 8/19/2008
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: <i>Donna L. Drogos</i>	Date: 08/20/08

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature: <i>Cherie McCaulou</i>	Date: 1/16/09

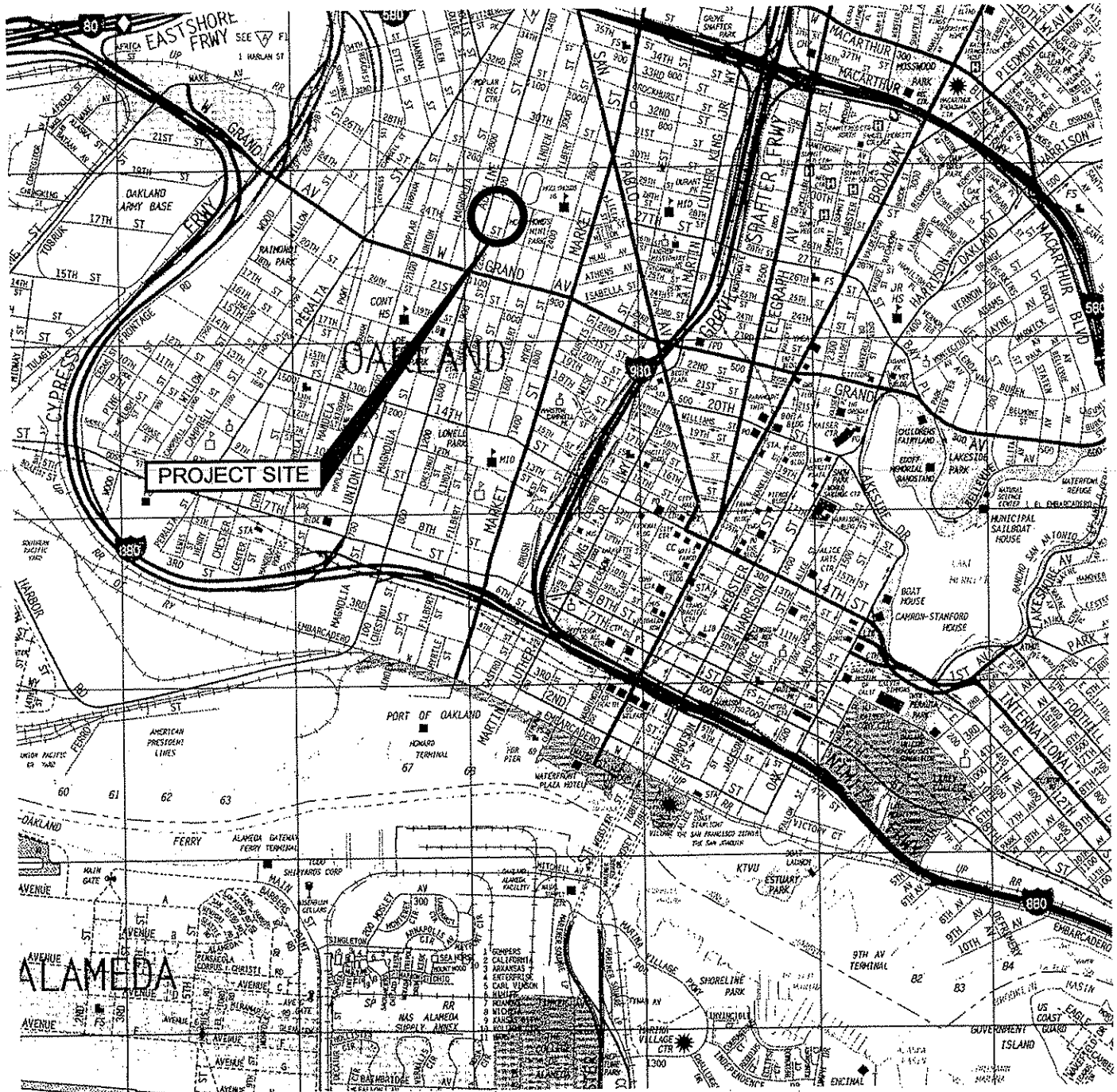
VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH:	Date of Well Decommissioning Report: 11/23/2010	
All Monitoring Wells Decommissioned: No Yes	Number Decommissioned: 3	Number Retained: 0
Reason Wells Retained:		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: <i>Paresh Khatri</i>	Date: 11/30/2010	

Attachments:

1. Site Vicinity Map
2. Site Plan with Sample Locations
3. June 1987 Tank Removal Laboratory Data
4. Soil Analytical Data Table
5. Groundwater Elevation Table
6. Groundwater Analytical Data Table
7. Tables 1 & 2 (Comparison of residual contamination to applicable ESLs).
8. Fugro's Risk Comparison Table
9. Monitoring Well Construction Details and Boring Logs (8 pp)

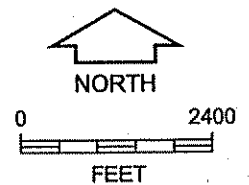
This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.



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NOTE:

This Vicinity Map Is Based On A Thomas Guide Map For San Francisco, Alameda And Contra Costa Counties, California, Map 649, YEAR 2000

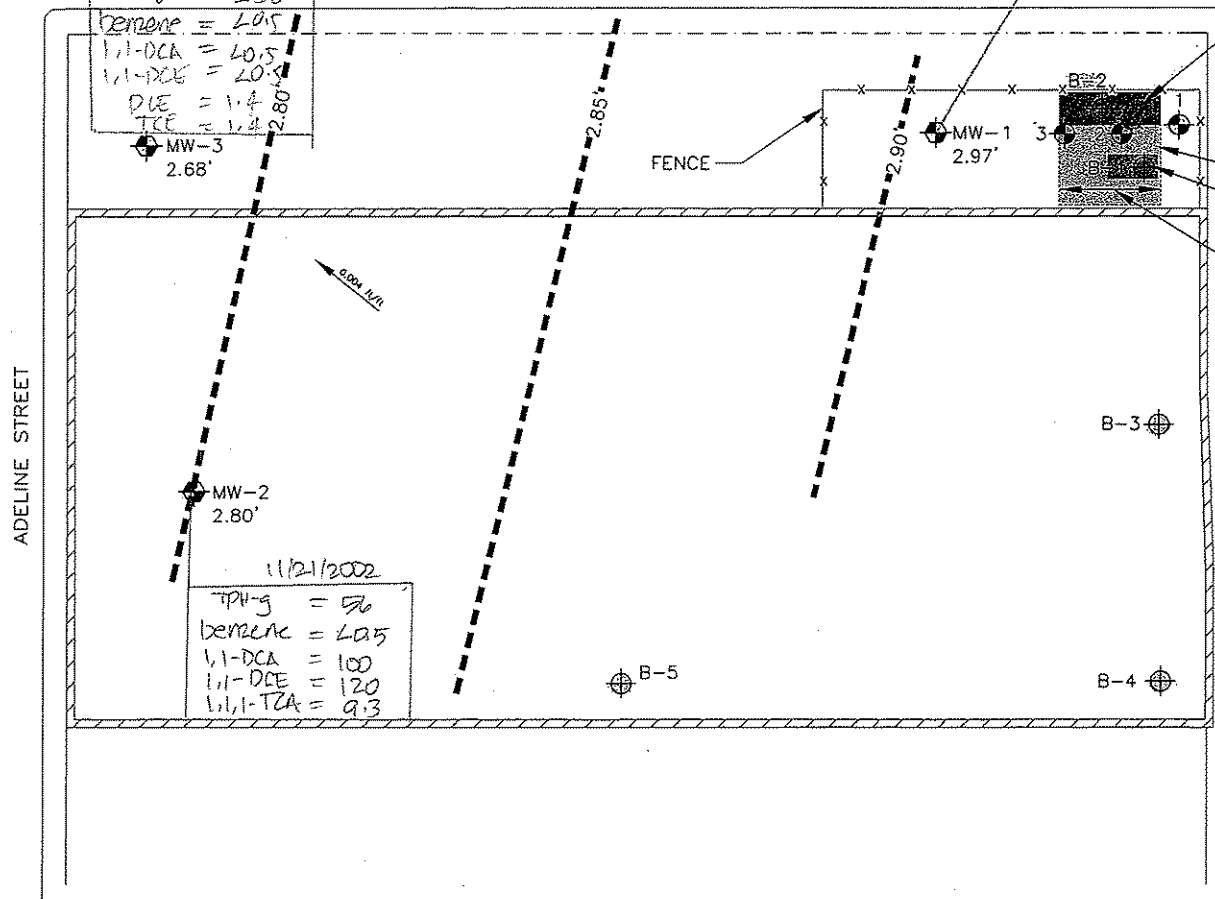


VICINITY MAP
2528 Adeline Street
Oakland, California

11/21/2002
 TPH-g = 630
 Benzene = 20.5
 1,1-DCA = 20.5
 1,1-DCE = 20.5

11/21/2002
 TPH-g = 250
 Benzene = 20.5
 1,1-DCA = 20.5
 1,1-DCE = 20.5
 PCE = 1.4
 TCE = 1.4
 2.80'

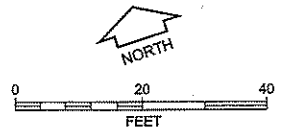
11/21/2002
 TPH-g = 56
 Benzene = 20.5
 1,1-DCA = 100
 1,1-DCE = 120
 1,1,1-TCA = 9.3



CONCRETE SURFACE PATCH
SUSPECTED SOLVENT UST AREA
 ASPHALT SURFACE PATCH
 PETROLEUM UST REMOVAL
DOCUMENTED BY URIAH, 1988
 EXTENT OF SURFACE PATCHING

EXPLANATION:

- APPROXIMATE LOCATION OF 2002 PROBE
- APPROXIMATE LOCATION OF PREVIOUS BORING
- APPROXIMATE LOCATION OF EXISTING MONITORING
- APPROXIMATE LOCATION OF FORMER WELL
- GROUNDWATER ELEVATION CONTOUR
- PROPERTY BOUNDARY
- CALCULATED GROUNDWATER GRADIENT & DIRECTION ON 11/21/02
- EXISTING STRUCTURE



NOTE:

BOTH FORMER TANKS WERE BELIEVED TO EXIST AT THE EASTERN END OF THE FENCED AREA LOCATED ON-SITE. CEMENT AND ASPHALT SURFACE PATCHING WERE LIKELY PLACED FOLLOWING TANK REMOVAL.

SITE PLAN
 2528 Adeline Street
 Oakland, California

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NE YED
JUN 22 1987
OFFICE *[Signature]*



BROWN AND CALDWELL LABORATORIES

ANALYTICAL REPORT

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E87-06-022

Received: 01 JUN 87
Reported: 19 JUN 87

Mr. Richard Fahey
Diablo Petroleum Inc.
3930 Pacheco Boulevard
Martinez, California 94553

Project: 87276

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED	
06-022-1	#1 Under Suction End	01 JUN 87	
06-022-2	#2 Under Fill End	01 JUN 87	
PARAMETER		06-022-1	06-022-2
Benzene, Toluene, Xylene Isomers			
Benzene, mg/kg	3.6	11	
Toluene, mg/kg	6.3	11	
Total Xylene Isomers, mg/kg	<0.5	<0.5	
Total Fuel Hydrocarbons, mg/kg	73	160	

[Signature]
D. A. McLean, Laboratory Director

Robert Vogel
Copies to Ala Cty Health and Oakland Fire 6/22/87

TABLE 3
 CHEMICALS OF CONCERN IN SOIL
 2528 ADELIN STREET
 OAKLAND, CALIFORNIA



Sample ID	Barium (mg/kg)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)
<u>March -August 1995 Data</u>							
1 @ 2.0'	83	<1.0	<0.005	<0.005	<0.005	<0.005	--
1 @ 3.5'	91	--	--	--	--	--	--
1 @ 10.5'	--	14	--	--	--	--	--
2 @ 4.0'	67,000	<1.0	<0.005	<0.005	<0.005	<0.005	--
2 @ 5.5'	1,900	--	--	--	--	--	--
2 @ 10.5'	820	--	--	--	--	--	--
2 @ 11.0'	--	24	--	--	--	--	--
3 @ 2.0'	14,000	<1.0	<0.005	<0.005	<0.005	<0.005	--
3 @ 4.0'	2,100	--	--	--	--	--	--
3 @ 8.0'	2,900	--	--	--	--	--	--
MW-1 @ 3.0'	220	<1.0	<0.005	<0.005	<0.005	<0.005	--
MW-1 @ 7.0'	--	<1.0	--	--	--	--	--
MW-1 @ 8.0'	160	--	--	--	--	--	--
MW-2 @ 1.0'	37	--	--	--	--	--	--
MW-3 @ 2.5'	100	--	--	--	--	--	--
<u>November 2002 Data</u>							
B-1 @ 1.5'	100	--	--	--	--	--	--
B-1 @ 4.0'	83	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B-1 @ 8.0'	120	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B-2 @ 1.0'	100	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B-2 @ 5.0'	66	--	--	--	--	--	--
B-2 @ 8.0'	130	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B-3 @ 1.0'	160	--	--	--	--	--	--
B-3 @ 4.0'	50	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B-3 @ 8.0'	83	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005
B-5 @ 1.5'	110	--	--	--	--	--	--

Ba = Barium

TPHg = Total volatile hydrocarbons within the gasoline range

MIBK = Methyl isobutyl ketone

MTBE = Methyl tertiary buthyl ether

-- = Test not requested

mg/kg = milligrams per kilogram

<1.0 = None detected at or above the stated detection limit



TABLE 1
GROUNDWATER ELEVATION DATA
2528 ADELINE STREET
OAKLAND, CALIFORNIA

<u>Well Number</u>	<u>Date</u>	<u>TOC Elevation (feet)</u>	<u>Groundwater Depth (feet)</u>	<u>Groundwater Elevation (feet)</u>
MW-1	4/3/1995	10.99	5.78	5.21
	8/14/1995		8.04	2.95
	4/29/1996		8.16	2.83
	7/25/1996		8.80	2.19
	10/31/1996		8.69	2.30
	1/9/1997		5.65	5.34
	7/31/1997		7.58	3.41
	1/13/1998		5.20	5.79
	7/14/1998		7.53	3.46
	11/21/2002		8.02	2.97
MW-2	8/14/1995	9.12	6.42	2.70
	4/29/1996		5.43	3.69
	7/25/1996		6.68	2.44
	10/31/1996		6.74	2.38
	1/9/1997		3.99	5.13
	7/31/1997		6.78	2.34
	1/13/1998		3.70	5.42
	7/14/1998		6.37	2.75
	11/21/2002		6.32	2.80
MW-3	8/14/1995	9.93	7.48	2.45
	4/29/1996		7.16	2.77
	7/25/1996		7.55	2.38
	10/31/1996		7.17	2.76
	1/9/1997		6.66	3.27
	7/31/1997		7.57	2.36
	1/13/1998		6.22	3.71
	7/14/1998		7.31	2.62
	11/21/2002		7.25	2.68

Notes:

1. TOC - Top of Casing
2. Measured below TOC
3. Reference Mean Sea Level

TABLE 4
CHEMICALS OF CONCERN in GROUNDWATER
2528 ADELIN STREET
OAKLAND, CALIFORNIA



Sample ID	Date	TVH ¹				TEH ²				Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Acetone (µg/L)	Carbon disulfide (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	MEK (µg/L)	MIBK (µg/L)	1,1,1-TCA (µg/L)	cis-1,2- DCE (µg/L)	TCE (µg/L)	PCE (µg/L)
		Barium (µg/L)	Gasoline Range (µg/L)	Stoddard Solvent (µg/L)	Diesel Range (µg/L)	Kerosene Range (µg/L)	O&G (mg/L)	Benzene (µg/L)	Toluene (µg/L)													
Former Well (abandoned)	3/31/1995	28000	2800	**	1600	**	37	4.5	49	34	270	--	24	4.1	<5.0	<5.0	7.7	57	<5.0	<5.0		
MW-1	4/3/1995	160	730	**	**	310	5.8	--	--	--	--	--	<20	<5.0	<5.0	4.2	<10	<10	<5.0	<5.0	<5.0	<5.0
	4/29/1996	130	2000	2000	240	220	<5	<0.5	<0.5	65	16	--	<20	<5.0	<5.0	6.2	<10	<10	<5.0	<5.0	<5.0	<5.0
	7/25/1996	110	730	750	190	180	<5	<0.5	<0.5	26	<0.5	--	<20	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0
	10/31/1996	130	<50	<50	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--	<20	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0
	1/9/1997	270	1800	**	470	550	--	<0.5	<0.5	57	26	--	<20	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0
	7/31/1997	220	700	610	290	360	--	<0.5	<0.5	2.7	<0.5	--	<20	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0
	1/13/1998	--	1400	2800	320	330	--	1.2C	4.3C	16	0.95	13C	--	--	--	--	--	--	--	--	--	--
	7/14/1998	--	630	340	250	160	--	<0.5	<0.5	1.8	<0.5	3.1	--	--	--	--	--	--	--	--	--	--
	11/21/2002	--	630	**	--	--	--	<0.5	<0.5	<0.5	<0.5	<5	--	--	<0.5	<0.5	--	--	<0.5	<0.5	<0.5	<0.5
MW-2	8/15/1995	180	83	**	<50	<50	<5	<13	<13	<13	<13	--	<50	<13	62	260	<25	<25	170	<13	<13	<13
	4/29/1996	120	75	74	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--	<20	<5.0	91	400	<10	<10	260	<5.0	<5.0	<5.0
	7/25/1996	130	110	92	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--	<40	<10	70	270	<20	<20	230	<10	<10	<10
	10/31/1996	130	<50	<50	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--	<33	<8.3	67	210	<17	<17	160	<8.3	<8.3	<8.3
	1/9/1997	150	<50	<50	<50	<50	--	<0.5	<0.5	<0.5	<0.5	--	<50	<13	79	340	<25	<25	230	<13	<13	<13
	7/31/1997	150	<50	<50	<50	<50	--	<0.5	<0.5	<0.5	<0.5	--	<33	<8.3	66	210	<17	<17	120	<8.3	<8.3	<8.3
	1/13/1998	--	<50	<50	<50	<50	--	0.55	<0.5	<0.5	<0.5	15	<40	<10	70	270	<20	<20	110	<10	<10	<10
	7/14/1998	--	<50	<50	58	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<33	<8.3	62	170	<17	<17	68	<8.3	<8.3	<8.3
	11/21/2002	--	56	**	--	--	--	<0.5	<0.5	<0.5	<0.5	<5	--	--	100	120	--	--	9.3	<2.5	<2.5	<2.5
MW-3	8/15/1995	62	<50	<50	<50	<50	<5	<5.0	<5.0	<5.0	<5.0	--	<20	<5.0	3.3	4.1	<10	<10	8.8	2.9	<5.0	<5.0
	4/29/1996	82	<50	<50	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--	<20	<5.0	<5.0	14	<10	<10	12	<5.0	<5.0	<5.0
	7/25/1996	33	<50	<50	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--	<20	<5.0	<5.0	7.2	<10	<10	8	<5.0	<5.0	<5.0
	10/31/1996	100	<50	<50	<50	<50	<5	<0.5	<0.5	<0.5	<0.5	--	<20	<5.0	<5.0	<5.0	<10	<10	5.1	<5.0	<5.0	<5.0
	1/9/1997	130	<50	<50	<50	<50	--	<0.5	<0.5	<0.5	<0.5	--	<20	<5.0	<5.0	<5.0	<10	<10	5.6	<5.0	<5.0	<5.0
	7/31/1997	65	<50	<50	<50	<50	--	<0.5	<0.5	<0.5	<0.5	--	<20	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0
	11/21/2002	--	<50	**	--	--	--	<0.5	<0.5	<0.5	<0.5	<5	--	--	<0.5	<0.5	--	--	<0.5	1.4	1.4	4.4
Probe B-3	11/21/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	7.8	3.7	--	--	1.0	<0.5	<0.5	<0.5
Probe B-4	11/21/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.5	<0.5	--	--	<0.5	<0.5	<0.5	<0.5
Probe B-5	11/21/2002	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.5	<0.5	--	--	<0.5	<0.5	<0.5	<0.5

¹Gasoline and stoddard solvent hydrocarbon ranges overlap

²Diesel and kerosene hydrocarbon ranges overlap

** = Range not reported due to overlap of hydrocarbons

µg/L = micrograms per liter or parts per billion

mg/L = milligrams per liter or parts per million

TVH = Total volatile hydrocarbons

TEH = Total extractable hydrocarbons

MTBE = Methyl tertiary butyl ether

O&G = Oil and grease

C = Presence of this compound confirmed by a second column; however, the confirmation concentration differed from the reported result by more than a factor of two.

<50 = None detected above the laboratory reporting limit stated.

-- = Test not requested

Environmental Impacts in Soil
Aerove Pacific
2528 Adeline Street, Oakland, California

Table 1. Comparison of Maximum Residual Soil Concentrations at the Site to Relevant Cleanup Standards (mg/kg)

	TPH-g (mg/kg)	TPH-d (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Xylenes (mg/kg)	MtBE (mg/kg)	1,1-DCA (mg/kg)	1,1-DCE (mg/kg)	PCE (mg/kg)	TCE (mg/kg)	Barium (mg/kg)
Maximum Residual Soil Concentrations at Site in milligrams per kilogram	160 ⁴	--	11 ⁴	11 ⁴	<0.005 ⁴	<0.5 ⁴	<0.005	--	--	--	--	67,000 ⁵
RWQCB, Region 2 ESLs ¹	83 ³	83 ³	0.044 ³	2.9 ³	2.3 ²	2.3 ³	0.023 ³	0.20	1.0	0.370	0.46	750

¹ Environmental Screening Levels (ESLs); Shallow Soil Screening Level for residential land use where potentially impacted groundwater is current or potential drinking water resource. Shallow soils defined as soils situated <3 meters below the ground surface. Depth to water ranges between 3.99 ft and 8.8 ft bgs.

² Lowest ESL value based on direct exposure scenario. Depth to water ranges between 3.99 ft and 8.8 ft bgs.

³ Lowest ESL value based on groundwater protection (soil leaching). Depth to water ranges between 3.99 ft and 8.8 ft bgs.

⁴ Soil sample collected at 2 feet below UST probably between 8 to 10 feet bgs. Depth to water ranges between 3.99 ft and 8.8 ft bgs. Therefore, the soil sample was likely saturated and not representative of actual vadose zone soil conditions.

⁵ Soil sample collected at 4.0 ft bgs from boring 2 in 1995. In the same boring, soil sample at 5.5 ft bgs barium was detected at 1,900 mg/kg and at 10.5 ft barium was detected at 820 mg/kg. In boring B-1 installed in November 2002, located just south of boring 2, barium was detected at 100 mg/kg at 1.5 ft bgs, 83 mg/kg at 4 ft bgs, and 120 at 8 ft bgs. In boring B-2 installed in November 2002, located just north of boring 2, barium was detected at 100 mg/kg at 1.0 ft bgs, 66 mg/kg at 5.0 ft bgs, and 130 mg/kg at 8.0 ft bgs.

Environmental Impacts in Groundwater

Aervoe Pacific

2528 Adeline Street, Oakland, California

Table 2. Comparison of Maximum Residual Groundwater Concentrations at the Site to Relevant Cleanup Standards (µg/L)

	TPH-g (µg/L)	TPH-d (µg/L)	TPH-ss (µg/L)	Kerosene (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	1,1-DCA (µg/L)	1,1-DCE (µg/L)	PCE (µg/L)	TCE (µg/L)	Barium (µg/L)
Maximum Residual Groundwater Concentrations at Site	630	250	340	160	<0.5	<0.5	<0.5	<0.5	<5.0	100	120	1.4	4.4	28,000⁷
RWQCB Region 2 ESLs ²	100 ¹ 100 ² 210 ³ 210 ⁶	100 ¹ 100 ² 210 ³ 210 ⁶	100 ¹ 100 ² 210 ³ 210 ⁶	100 ¹ 100 ² 210 ³ 210 ⁶	1.0 ¹ 170 ² 1.0 ³ 540 ⁴ 46 ⁶	40 ¹ 40 ² 150 ³ 380,000 ⁴ 130 ⁶	30 ¹ 30 ² 300 ³ 170,000 ⁴ 43 ⁶	20 ¹ 20 ² 1,800 ³ 160,000 ⁴ 100 ⁶	5 ¹ 5 ² 13 ³ 24,000 ⁴ 8,000 ⁶	5 ¹ 50,000 ² 5 ³ 1,000 ⁴ 47 ⁶	6 ¹ 1,500 ² 6 ³ 6,300 ⁴ 25 ⁶	5 ¹ 170 ² 5 ³ 120 ⁴ 120 ⁶	5 ¹ 310 ² 5 ³ 530 ⁴ 360 ⁶	1,000 ¹ 50,000 ² 1,000 ³ -- ⁴ 1,000 ⁶
ASTM Tier 1 Standard Human Health RBSL (Benzene)	NA	NA	NA	NA	11,000 ⁴ 23.8 ⁵	32,800	77,500	NA	NA	NA	--	--	--	--

¹ Environmental Screening Levels (ESLs) for impacted subsurface groundwater less than 10 feet, where groundwater IS a current or potential drinking water resource

² Final Groundwater Screening Level, based on ceiling value (taste and odor threshold)

³ Groundwater Screening Level, based on drinking water toxicity

⁴ Groundwater Volatilization to indoor air (residential) Level,

⁵ Groundwater Vapor Intrusion from groundwater to buildings (residential, chronic hazard quotient = 1)

⁶ Final Groundwater Screening Level, based on Aquatic Habitat

⁷ Sample collect on 7/31/1997 from monitoring well MW-1 located approximately 15 ft down-gradient of USTs detected barium at 220 µg/L. Barium detected at 28,000 µg/L on 3/31/1995 from former well located in former UST pit. Former well construction details are unknown.



**TABLE 2
COMPARISON of RBSLs
2528 ADELIN STREET
OAKLAND, CALIFORNIA**

Chemical of Concern	SOIL		GROUNDWATER	
	RWQCB RBSL	ULR RBSL	RWQCB RBSL	ULR RBSL
	(mg/kg)	(mg/kg)	(ug/L)	(ug/L)
Barium	1,100/2,400 (CW) not a volatile, not an inhalation risk	5,000/71,000 surficial soil	50,000 (CV)	not a volatile not an inhalation risk
TPHg	400 (L)	NA	5,000 (CV)	NA
Benzene	0.18/0.39(CW)	19/49 surficial soil 3.3/52 (I)	5,800/24,000 (I)	6,600/100,000 (I)
Toluene	8.4 (L)	7,100/34,000 surficial soil 1,600/SAT (I)	SOL (I)	SOL (I)
Ethylbenzene	24(L)	3900/18000 surficial soil SAT Inhalation	300(CV)/SOL (I)	SOL (I)
Total Xylenes	1.0 (L)	53000/260000 surficial soil SAT Inhalation	5,300(CV)/SOL (I)	SOL (I)
1,1-DCA	2.1 (L) 3.2/13 (I)	330/870 surficial soil 43/680 Inhalation	22,000/94,000 (I)	120,000/1,900,000 (I)
1,1-DCE	4.3 (L) 0.028/0.12 (I)	3.3/8.5 surficial soil 0.4/6.3 Inhalation	200/850 (I)	2,500/39,000 (I)
1,1,1-TCA	8.0 (L) 330/1,100 (I)	3.3/8.5 surficial soil 0.4/6.3 Inhalation	50,000 (CV)	SOL (I)

Notes

1,100/2,400=Residential Exposure Risk/Commercial Exposure Risk

RBSL = Risk Based Screening Criteria

RWQCB=Regional Water Quality Control Board-Region 2 Interim Final Guidance , December 2001, Tables B, D, E-1a, E-1b, F and K.

ULR=Oakland Urban Land Redevelopment Program Guidance, January 2000

Assumes Clayey Silt Soil Type and Shallow Groundwater. Analysis driven by surficial soil impacts and risk of inhalation of impacted vapors in indoor air spaces.

mg/kg = milligrams per kilogram=parts per million

ug/L=micrograms per liter=parts per billion

TPHg = Total volatile hydrocarbons reported within gasoline range

<1.0 = None detected at or above the stated detection limit

Sol=RBSL exceeds solubility of chemical in water

Sat=RBSL exceeds saturated soil concentration of chemical

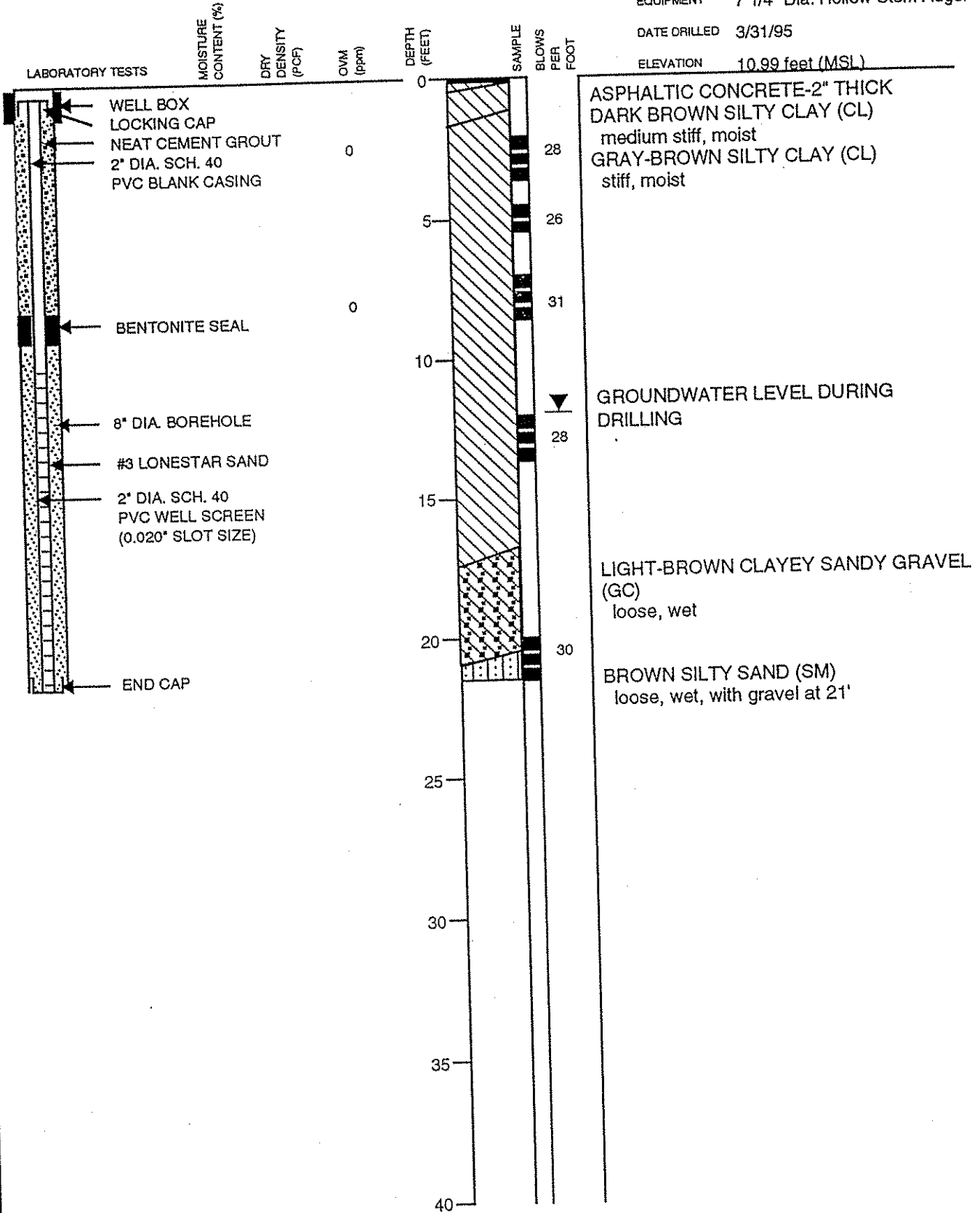
NA=RBSL not established

LOG OF TEST BORING MW-1

EQUIPMENT 7 1/4" Dia. Hollow Stem Auger

DATE DRILLED 3/31/95

ELEVATION 10.99 feet (MSL)



Subsurface Consultants

2528 ADELIN STREET - OAKLAND, CA

JOB NUMBER
946.001

DATE
6/1/95

APPROVED
MM

PLATE

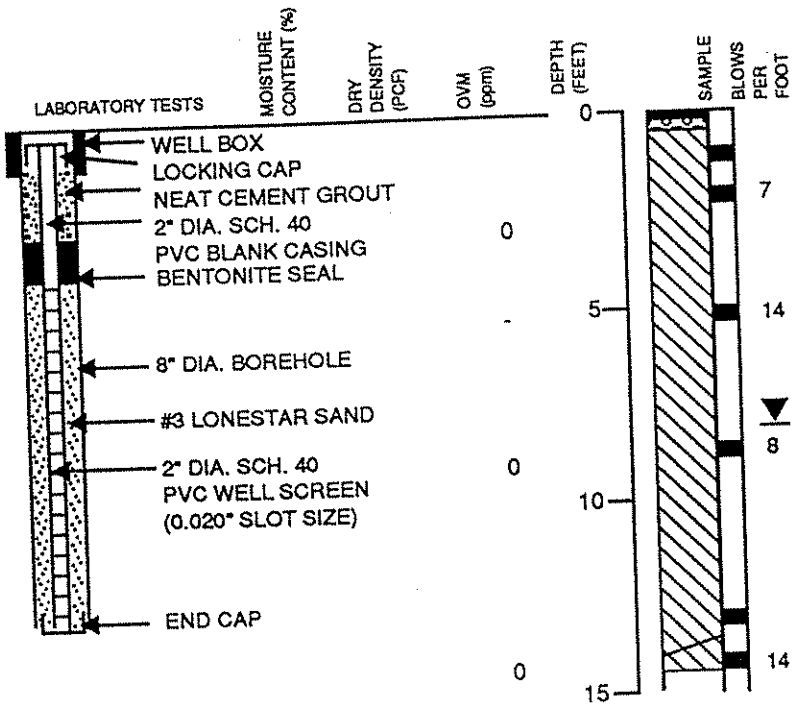
5

LOG OF TEST BORING MW-2

EQUIPMENT 8" Dia. Hollow Stem Auger

DATE DRILLED 8/9/95

ELEVATION 9.12 feet (MSL)



CONCRETE - 6 inches thick
 BASEROCK - 4 inches thick
 GRAY-BROWN SILTY CLAY (CL)
 medium stiff, moist, with trace coarse grained sand

GROUNDWATER LEVEL DURING DRILLING

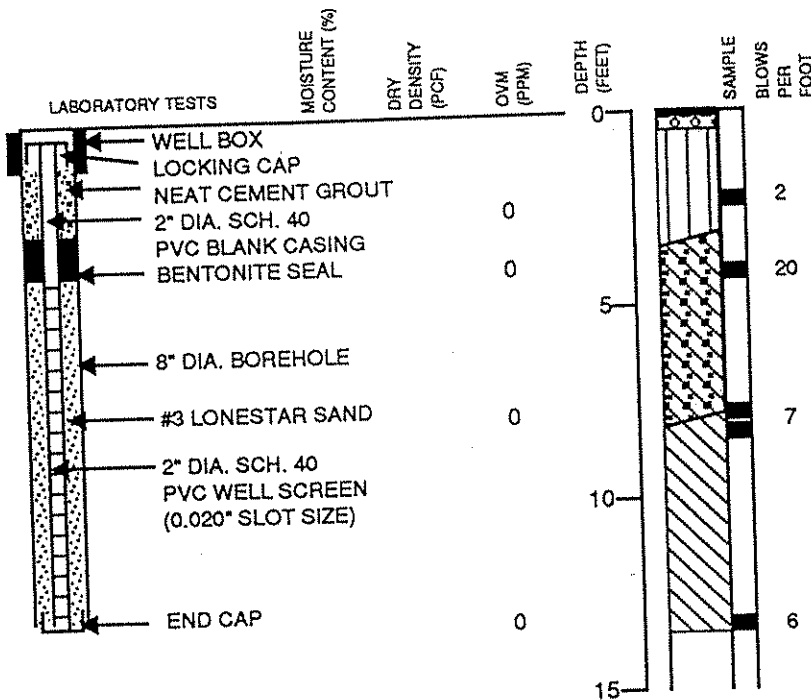
BROWN SANDY CLAY (CL)
 medium stiff, wet

LOG OF TEST BORING MW-3

EQUIPMENT 8" Dia. Hollow Stem Auger

DATE DRILLED 8/9/95

ELEVATION 9.93 feet (MSL)



ASPHALTIC CONCRETE - 2 inches thick
 BASEROCK - 4 inches thick
 BLACK CLAYEY SILT (ML)
 soft, moist (fill)

BROWN CLAYEY GRAVEL (GC)
 medium dense, wet, with sand

ORANGE AND BROWN SILTY CLAY (CL)
 medium stiff, moist

NO GROUNDWATER ENCOUNTERED DURING DRILLING

Subsurface Consultants

2528 ADELINE STREET - OAKLAND, CA

JOB NUMBER
946.001

DATE
9/8/95

APPROVED
[Signature]

PLATE

6

GENERAL SOIL CATEGORIES			SYMBOLS	TYPICAL SOIL TYPES
COARSE GRAINED SOILS More than half is larger than No. 200 sieve	GRAVEL More than half coarse fraction is larger than No. 4 sieve size	Clean Gravel with little or no fines	GW	Well Graded Gravel, Gravel-Sand Mixtures
			GP	Poorly Graded Gravel, Gravel-Sand Mixtures
		Gravel with more than 12% fines	GM	Silty Gravel, Poorly Graded Gravel-Sand-Silt Mixtures
			GC	Clayey Gravel, Poorly Graded Gravel-Sand-Clay Mixtures
	SAND More than half coarse fraction is smaller than No. 4 sieve size	Clean Sand with little or no fines	SW	Well Graded Sand, Gravelly Sand
			SP	Poorly Graded Sand, Gravelly Sand
		Sand with more than 12% fines	SM	Silty Sand, Poorly Graded Sand-Silt Mixtures
			SC	Clayey Sand, Poorly Graded Sand-Clay Mixtures
FINE GRAINED SOILS More than half is smaller than No. 200 sieve	SILT AND CLAY Liquid Limit Less than 50%	ML	Inorganic Silt and Very Fine Sand, Rock Flour, Silty or Clayey Fine Sand, or Clayey Silt with Slight Plasticity	
		CL	Inorganic Clay of Low to Medium Plasticity, Gravelly Clay, Sandy Clay, Silty Clay, Lean Clay	
		OL	Organic Clay and Organic Silty Clay of Low Plasticity	
	SILT AND CLAY Liquid Limit Greater than 50%	MH	Inorganic Silt, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silt	
		CH	Inorganic Clay of High Plasticity, Fat Clay	
		OH	Organic Clay of Medium to High Plasticity, Organic Silt	
HIGHLY ORGANIC SOILS			PT	Peat and Other Highly Organic Soils

UNIFIED SOIL CLASSIFICATION SYSTEM

Subsurface Consultants

2528 ADELIN STREET - OAKLAND, CA

JOB NUMBER
946.001

DATE
6/1/95

APPROVED
MH

PLATE

7

LOG OF BORING

Project Name & Location: 2528 Adeline Street Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates: See Plate 1		Start: Date 11/21/02	Time 12:25
Drilling Company & Driller: Vironex J.M.		Finish: Date 11/21/02	Time 13:15
Rig Type & Drilling Method: Limited Access Rig, Direct Push		Drilling Fluid: N.A.	Hole Diameter: 2"
Sampler A) Clear Butyrate Tubes Type(s):		Logged By: O Nzewi	
Sampling Method(s): A) Direct Push		Backfill Method: Neat Cement	Date: 11/21/02

Depth (feet)	Sampler Type	Blows/6 inches or pressure	Blows/12 inches	OVM (ppm)	Sample Interval	Graphic Log	SOIL DESCRIPTIONS
							GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)
0							CONCRETE
0	A			0			Clayey SILT (ML) Dark brown to black, wet
0	A			0			Clayey SILT (ML) with some pebbles Brown to dark brown, moist, fairly stiff
0	A			0			
5	A			0			
0	A			0			CLAY (CL) Light green gray to brown with green staining and hydrocarbon odor
0	A			0			
10	A			17			- Strong hydrocarbon odor
10	A			15			
	A			N.O.			- No Odor (N.O.)
				N.O.			
15	Bottom of boring at 15 feet below ground surface.						
20							

FUGRO LOG OF BORING 946-004.GPJ SCI_CORP.GDT 3/26/03

 FUGRO WEST, INC. 1000 Broadway, Suite 200, Oakland, California 94607 Tel: (510) 268-0461, Fax: (510) 268-0137	2528 Adeline Street Oakland, California		BORING
	JOB NUMBER 946.004	DATE 3/03	B-2

LOG OF BORING

Project Name & Location: 2528 Adeline Street Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates: See Plate 1		Start: Date 11/21/02	Time 09:05
Drilling Company & Driller: Vironex J.M.		Finish: Date 11/21/02	Time 09:56
Rig Type & Drilling Method: Limited Access Rig, Direct Push		Drilling Fluid: N.A.	Hole Diameter: 2"
Sampler Type(s): A) Clear Butyrate Tubes		Logged By: O Nzewi	
Sampling Method(s): A) Direct Push		Backfill Method: Neat Cement	Date: 11/21/02

Depth (feet)	Sampler Type	Blows/6 inches or pressure	Blows/12 inches	OVM (ppm)	Sample Interval	Graphic Log	SOIL DESCRIPTIONS
							GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)
0							CONCRETE Red brown brick debris
0-1	A			0			Sandy SILT (ML) Dark brown to black brown
1-2	A			0			Clayey SILT (ML) Dark gray to black green, moist, with faint to medium odor (solvent?)
2-3	A			0			- increased green staining
3-4	A			0			Clayey SILT (ML) Light brown to light green brown, stiff clayey sand, slight odor (solvent?)
4-5	A			0			
5-6	A			0			
6-7	A			0			
7-8	A			0			
8-9	A			0			Sandy SILT (ML) Light green to grayish brown
9-10	A			0			
10-11	A			0			
11-12	A			0			
12-13	A			0			
13-14	A			0			
14-15	A			0			- increasing sands
15-18							Medium-fine grain SAND (SP) Brown, moist
Bottom of boring at 18 feet below ground surface.							
20							

FUGRO LOG OF BORING 946-004.GPJ SCI_CORP.GDT 3/26/03



FUGRO WEST, INC.
1000 Broadway, Suite 200, Oakland, California 94607
Tel: (510) 268-0461, Fax: (510) 268-0137

2528 Adeline Street Oakland, California		BORING B-3
JOB NUMBER 946.004	DATE 3/03	


LOG OF BORING

Project Name & Location: 2528 Adeline Street Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates: See Plate 1	Start: Date 11/21/02	Time 10:00	Finish: Date 11/21/02
Drilling Company & Driller: Vironex J.M.			Time 11:05
Drilling Fluid: N.A.	Hole Diameter: 2"		
Rig Type & Drilling Method: Limited Access Rig, Direct Push	Logged By: O Nzewi		
Sampler A) Clear Butyrate Tubes Type(s):	Backfill Method: Neat Cement		
Sampling Method(s): A) Direct Push	Date: 11/21/02		

Depth (feet)	Sampler Type	Blows/6 inches or pressure	Blows/12 inches	Sample Interval	Graphic Log	SOIL DESCRIPTIONS
						GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)
0						CONCRETE
	A					Sandy SILT (ML) Dark brown to black, moist
	A					Sandy CLAY (CL) with some pebbles Brown to mottled light green and black
5						Sandy CLAY (CL) Dark brown to black, moist
						Sandy CLAY (CL) Light brown to green gray, moist
						Silty SAND (SM) Light brown to brown, ? to fine grain, increasing sand and pebbles with depth
	A					- increasing sands
10	A					
	A					
15	A					
Bottom of boring at 15 feet below ground surface.						
20						

FUGRO LOG OF BORING 946-004.GPJ SCI_CORP.GDT 3/26/03



 FUGRO WEST, INC. 1000 Broadway, Suite 200, Oakland, California 94607 Tel: (510) 268-0461, Fax: (510) 268-0137	2528 Adeline Street Oakland, California		BORING
	JOB NUMBER 946.004	DATE 3/03	B-4

LOG OF BORING

Project Name & Location: 2528 Adeline Street Oakland, California		Ground Surface Elevation:	
		Elevation Datum:	
Drilling Coordinates: See Plate 1		Start: Date 11/21/02	Time 11:10
Drilling Company & Driller: Vironex J.M.		Finish: Date 11/21/02	Time 12:20
Rig Type & Drilling Method: Limited Access Rig, Direct Push		Drilling Fluid: N.A.	Hole Diameter: 2"
Sampler A) Clear Butyrate Tubes Type(s):		Logged By: O Nzewi	
Sampling Method(s): A) Direct Push		Backfill Method: Neat Cement	Date: 11/21/02

Depth (feet)	Sampler Type	Blows/6 inches or pressure	Blows/12 inches	OVM (ppm)	Sample Interval	Graphic Log	SOIL DESCRIPTIONS
							GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)
0							CONCRETE
0	A			0			Sandy SILT (ML) Dark brown to black, moist
5	A			0			Clayey SILT (ML) Brown to light greenish gray, moist
5	A			0			Clayey SILT (ML) Light greenish gray, moist, increasingly stiff, with some pebbles
10	A			0			Clayey SILT (ML) Light greenish gray to brown, stiff
10	A			0			Clayey SILT (ML) Light brown to greenish gray, stiff, increased sands
15	A			0			- Moist and soft, with dark brown black streaks
Bottom of boring at 18 feet below ground surface.							
20							

FUGRO LOG OF BORING 946-004.GPJ SCI_CORP.GDT 3/26/03



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2528 Adeline Street
Oakland, California

JOB NUMBER
946.004

DATE
3/03

BORING
B-5