

ALAMEDA COUNTY  
**HEALTH CARE SERVICES**  
AGENCY

ALEX BRISCOE, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH  
OFFICE OF THE DIRECTOR  
1131 HARBOR BAY PARKWAY  
ALAMEDA, CA 94502  
(510) 567-6777  
FAX (510) 337-9135

November 21, 2011

Geoff Sears  
EmeryStation Triangle II, LLC  
1120 Nye St., Suite 400  
San Rafael, CA 94901

Wilma Alders  
Wilma Alders Trust  
3356 Betty Lane  
Lafayette, CA 95818

Subject: Fuel Leak Case, RO0000201 and GeoTracker Global ID T0600101109, Hydraulic Electro Service, 5812 Hollis Street, Emeryville, CA 94608

Dear Mr. Sears and Mrs. Alders:

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 pollution remaining in soil beneath the site includes TPH as motor oil at concentrations of up to 224 ppm.
- Maximum concentrations of up to 63 ppb TPH as gas and 97 ppb TPH as diesel remain in groundwater beneath the site.

If you have any questions, please call Barbara Jakub at (510) 639-1287. Thank you.

Sincerely,



Donna L. Drogos, P.E.  
Division Chief

Enclosures:

1. Remedial Action Completion Certificate
2. Case Closure Summary

cc: Leroy Griffin (w/enc via electronic mail: [lgriffin@oaklandnet.com](mailto:lgriffin@oaklandnet.com)), Oakland, FireDepartment  
Barbara Jakub (w/ enc via e-mail), D. Drogos (w/ enc via e-mail), T. LeKhan (via e-mail and w/orig enc)  
Geotracker

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3356 Betty Lane  
Lafayette, CA 95818

**REMEDIAL ACTION COMPLETION CERTIFICATE**

Subject: Fuel Leak Case, RO0000201 and GeoTracker Global ID T0600101109, Hydraulic Electro Service, 5812 Hollis Street, Emeryville, CA 94608

Dear Mr. Sears and Mrs. Alders:

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 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 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,

Ariu Levi  
Director  
Alameda County Environmental Health

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

**I. AGENCY INFORMATION**

Date: October 13, 2011

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 639-1287
Responsible Staff Person: Barbara Jakub	Title: Hazardous Materials Specialist

**II. CASE INFORMATION**

Site Facility Name: Hydraulic Electro Service		
Site Facility Address: 5812 Hollis St., Emeryville, CA 94608		
RB Case No.: 01-1206	STID No.: 49	LOP Case No.: RO0000201
URF Filing Date: 8/4/2010	Geotracker ID: T0600101109	APN: 049-1328-003-02
<b>Responsible Parties</b>	<b>Addresses</b>	<b>Phone Numbers</b>
Geoff Sears EmeryStation Triangle II, LLC	1120 Nye Street, Suite 400 San Rafael, CA 94901	(415) 457-4964
Wilma L. Alders	3356 Betty Ln. Lafayette, CA 94549	----

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	3,000	Gasoline	Removed	12/5/1989
2	8,000	Diesel	Removed	12/5/1989
3	1,000	Gasoline	Removed	8/4/2010
Piping			Removed	12/5/1989 8/4/2010

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and Type of Release: Pitting and holes observed in northern tanks (1&2). Multiple holes in southern UST (Tank 3).		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 1	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 4.85 ft bgs	Lowest Depth: 6.7 ft bgs	Flow Direction: West *
Most Sensitive Current Use: Potential drinking water source.		

\* Groundwater gradient from adjacent sites RO67 and RO2621.

Summary of Production Wells in Vicinity: There are no known water supply wells within ¼-mile of the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: San Francisco Bay 1200 feet WSW
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	3,000 gallon gasoline	H&H Ship Service, San Francisco, CA	12/5/1989
	8,000 gallon diesel	H&H Ship Service, San Francisco, CA	12/5/1989
	1,000 gallon	Circosta Iron and Metal, Inc	8/4/2010
Piping	Unknown amount	Assumed disposed w/USTs	----
Free Product	----	----	----
Soil	Unknown quantity	Disposal location unknown	12/5/1989
	615 tons	Disposed – Hay Road Landfill	8/5/2010
	23 tons	Waste Management, Kettlemen Hills, CA	8/2010
	350 tons	Clean Harbors, Buttonwillow, CA	7/2010
	18,675 tons	Altamont Landfill, Livermore, CA	2 to 5/2011
	1,860 tons	Dumbarton Quarry, Fremont, CA	2 to 5/2011
	6,996 tons	Curtner Quarry, Milpitas, CA	<b>2 to 5/2011</b>
Groundwater	Total amount not reported	Treated on-site	2010 - ongoing

**MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP**  
 (Please see Attachments 1 through 6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	21	<1.0	960	63
TPH (Diesel)	1,300	<1.0	90,000	97
TPH (Motor Oil)	309	224	17,000	51J
Oil and Grease	Not analyzed	Not analyzed	Not analyzed	Not analyzed
Benzene	0.1	<0.005	100	<0.50
Toluene	15	<0.5	200	<0.50
Ethylbenzene	120	<0.5	40	<0.50
Xylenes	700	<0.5	310	<0.50
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	18,000 <sup>^</sup>	15 <sup>^^</sup>	49 <sup>^^^</sup>	49 <sup>^^^</sup>
MTBE	<0.005 <sup>*</sup>	<0.005 <sup>*</sup>	<2.0 <sup>**</sup>	<2.0 <sup>**</sup>
Other (8240/8270)	Not analyzed	Not analyzed	Not analyzed	Not analyzed

J - Estimated concentration. Concentration is below reporting limit but above method detection limit.

<sup>^</sup> 18,000 ppm Pb; 3.6 ppm Cd, 130 ppm Cr, 97 ppm Ni and 1,700 ppm Zn.

<sup>^^</sup> 15 ppm Pb; 3.6 ppm Cd, 130 ppm Cr, 97 ppm Ni and 1,700 ppm Zn.

<sup>^^^</sup> <15 ppb Pb; <5 Cd; <5 ppb Cr; 49 ppb Ni; and 34 ppb Zn.

<sup>\*</sup> <0.005 ppm MTBE; <0.05 ppm TBA, <0.005 ppm TAME, <0.005 ppm ETBE; <0.005 ppm DIPE, <0.004 EDB; and <0.004 EDC

<sup>\*\*</sup> <2.0 ppb MTBE; 3.1 ppb TBA; <0.5 ppb TAME; <0.5 ppb ETBE; <0.5 ppb DIPE; <0.250 ppb EDB; and <0.250 ppb EDC

#### Site History and Description of Corrective Actions:

The Site consists of an approximately 40,000 square foot triangular-shaped lot which is currently being redeveloped as a multistory office building with sub-grade parking. The Site is bounded by Hollis Street to the west, a commercial building immediately to the north, and a public greenway to the east. The southern tip of the Site is at the intersection of Hollis Street and Powell Street.

Two USTs (one 8,000 gallon diesel and one 3,000 gallon gasoline) and the associated dispenser island were installed in the northern portion of the property in 1977, and the USTs and dispenser island were removed in December 1989. During removal activities, petroleum hydrocarbons were observed in soil and groundwater, pitting and holes were observed in the USTs and a hydrocarbon sheen was observed in the water that had collected in the excavation. Up to 23 mg/kg of TPH-d was detected in soil samples from the excavation. Groundwater samples from the excavation contained maximum concentrations of 90,000 µg/L TPH-d, 2,300 µg/L TPH-g, 100 µg/L benzene, 200 µg/L toluene, 40 µg/L ethylbenzene, and 310 µg/L xylenes.

On 17 June 1993, Summit Engineering supervised installation of groundwater monitoring well MW-1 approximately 10 feet southwest of the former USTs. During well installation, groundwater was first encountered at approximately 12 feet below ground surface (bgs). Groundwater was measured at approximately 5 feet bgs 48 hours after well construction and the sample was below the detection limits. The well was analyzed 3 times through 1994 with similar results. Subsequent MTBE analysis was below the detection limit of 2 ppb.

From January to March 2008, Treadwell and Rollo performed an investigation which included advancing 18 borings across the entire site (TR-1 through TR-18) to depths between 1.5 feet to 28 feet bgs. Grab groundwater samples were collected from eleven of the borings. Maximum petroleum hydrocarbon concentrations in soil were 57 mg/kg TPHd and 309 mg/kg TPHmo. Maximum petroleum hydrocarbon concentrations in groundwater were 656 µg/L TPHg and 133 µg/L TPHd.

Based on the results of the previous investigation, five additional borings (TR-19 through TR-24) were advanced to collect soil and groundwater samples in April 2008. Soil samples were collected from each of the borings. A groundwater sample was collected from one boring (TR-19). Soil and groundwater samples were analyzed for some or all of the following analytes: TPH-g, TPH-d, TPH-mo, PCBs, SVOCs (including PAHs), VOCs, and metals.

In July 2009, Treadwell & Rollo advanced four borings (UST-1 through UST-4) to depths between 20 to 30 ft bgs in the area of the former northern USTs. Maximum petroleum hydrocarbon concentrations in soil were 1.9 mg/kg TPHg, 530 mg/kg TPHd and 290 mg/kg TPHmo. Maximum petroleum hydrocarbon concentrations in groundwater were 960 µg/L TPHg and 29,000 µg/L TPHd and 17,000 TPHmo.

In July 2010, Pacific States performed targeted excavation work to remove previously delineated lead impacted soil in shallow soil around the Site for the open DTSC case (Envirstor #0001261) also located at the site, and hydrocarbon impacted soil in the vicinity of the former northern UST. The UST-related excavation covered an area of approximately 665 ft<sup>2</sup> and was extended to a depth of approximately 15 feet deep (approximately 370 yd<sup>3</sup>). Excavated soil was off-hauled for disposal at an appropriately permitted facility.

In August 2010, a 1,000-gallon gasoline UST was removed by Golden Gate Tank Removal Company from the southern portion of the property. The excavation covered an area of approximately 60 ft<sup>2</sup> and extended approximately 12 feet deep. The maximum concentrations detected in confirmation soil samples were 224 mg/kg TPHmo and 7.4 mg/kg lead.

In 2011 the entire site was excavated to a depth of 15 feet bgs. As required in the Soil Management Plan, soil samples were collected from the sidewalls and bottom of the excavation. The maximum petroleum hydrocarbon concentrations in soil in the areas of the USTs were 5.2 mg/kg TPHg, 210 mg/kg TPHd, 160 mg/kg TPHmo. Groundwater samples were obtained from the influent of the dewatering system prior to treatment. The maximum petroleum hydrocarbon concentrations in groundwater were 63 µg/L TPHg, 97 µg/L TPHd and 51J µg/L TPHmo.

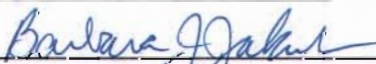
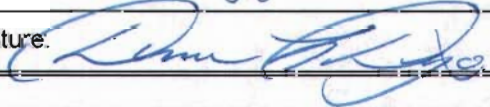
**IV. CLOSURE**

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 risk to human health based upon current land use and conditions.		
Site Management Requirements:  None		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: ----
Monitoring Wells Decommissioned: Yes	Number Decommissioned: 1	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

**V. ADDITIONAL COMMENTS, DATA, ETC.**

<p>Considerations and/or Variances:</p> <ul style="list-style-type: none"> <li>This closure issued for the UST case only. The DTSC is the regulatory agency that oversees the metals and SVOC case (Envirstor #0001261) located at the same address.</li> </ul> <p>Conclusion:</p> <p>Alameda County Environmental Health staff believe 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 for the fuel leak case is necessary. ACEH staff recommend case closure for this fuel leak site.</p>
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**VI. LOCAL AGENCY REPRESENTATIVE DATA**

Prepared by: Barbara J. Jakub, P.G.	Title: Hazardous Materials Specialist
Signature: 	Date: 10/13/11
Approved by: Donna L. Drozdos, P.E.	Title: Division Chief
Signature: 	Date: 10/13/11

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
Notification Date: 10/13/11	

**VIII. MONITORING WELL DECOMMISSIONING**

Date Requested by ACEH: ----	Date of Well Decommissioning Report: ----	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 1	Number Retained: 0
Reason Wells Retained: ----		
Additional requirements for submittal of groundwater data from retained wells: ----		
ACEH Concurrence - Signature: <i>Barbara J. Jakob</i>	Date: 10/13/11	

Attachments:

1. Site Vicinity Map (pp 1)
2. Site Plans (pp 6)
3. Soil Analytical Data (pp 13)
4. Groundwater Analytical Data (pp 8)
5. Boring Logs (pp 7)
6. Cross Sections (pp 2)

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.



## Jakub, Barbara, Env. Health

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**From:** Cherie McCaulou [CMccaulou@waterboards.ca.gov]  
**Sent:** Friday, October 14, 2011 10:24 AM  
**To:** Jakub, Barbara, Env. Health  
**Subject:** Re: Closure Summary for RO201

Hello Barbara - Thank you for the case closure notification for 5812 Hollis Street, Emeryville. We have no objection to ACEH's findings and recommended closure. Have a nice day.

Sincerely,

Cherie McCaulou  
Engineering Geologist  
San Francisco Bay Regional Water Quality Control Board  
[cmccaulou@waterboards.ca.gov](mailto:cmccaulou@waterboards.ca.gov)  
510-622-2342

>>> "Jakub, Barbara, Env. Health" <[barbara.jakub@acgov.org](mailto:barbara.jakub@acgov.org)> 10/13/2011 3:25 PM >>>

Hi Cherie,

Attached is a closure summary for RO201; Hydro Electro Service located at 5812 Hollis St., Emeryville to comply with the RWQCB's 30-day review period. If no comments from the RWQCB are received within the 30-day review period, ACEH will proceed with case closure.

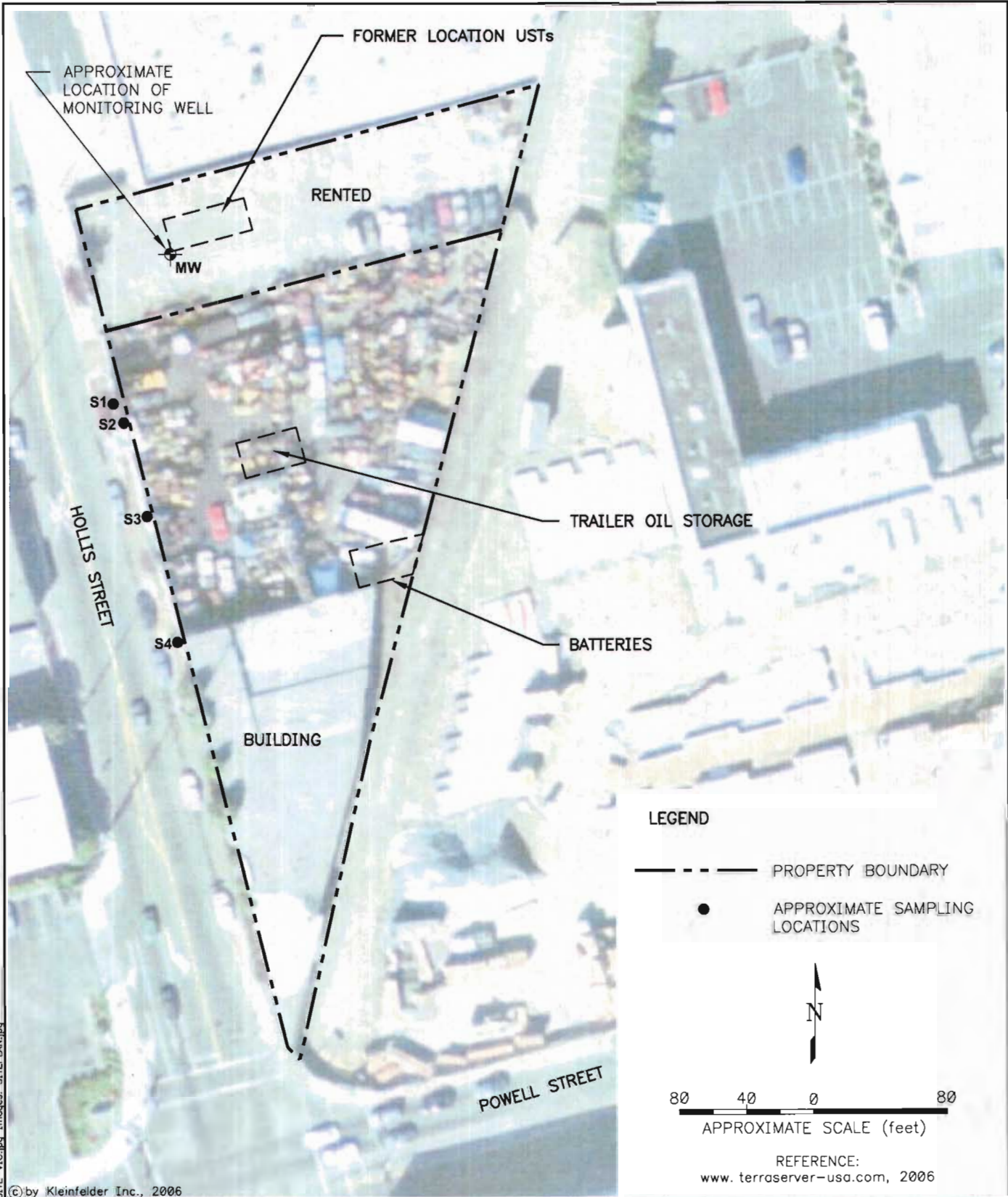
Please contact me if you have any comments or questions about the subject site.

Regards,

Barbara Jakub, P.G.  
Hazardous Materials Specialist  
Alameda County Environmental Health  
1131 Harbor Bay Pky.  
Alameda, CA 94502  
Direct: 510-639-1287  
Fax: 510-337-9335

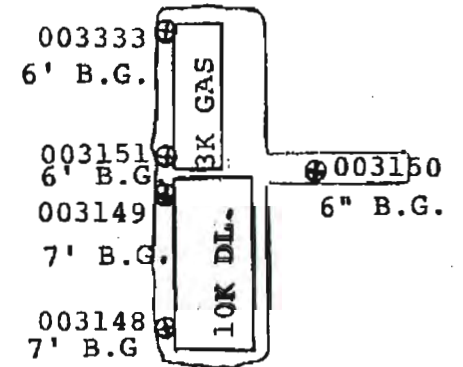
PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>



ATTACHED XREFS: XRef: TB\_A-port  
 IMAGES: SITE-VIC.jpg Images: SITEPLAN.jpg  
 FILE: L:\2006\06Projects\CAD FILE: L:\2006\06Projects\67972\GRAPHICS\PWENV\VIC-PLAN.dwg  
 LAYOUT: SITEPLAN  
 PLOTTED: 27 Apr 2006 4:15pm

<p>1970 Broadway, Suite 710 Oakland, CA 94612-2212 PH: (510) 628-9000 FAX: (510) 628-9009</p>		<p><b>SITE PLAN</b></p> <p>ALDERS PROPERTY - CITY OF EMERYVILLE 5812 HOLLIS STREET EMERYVILLE, CALIFORNIA</p>	<p>PLATE</p> <p><b>2</b></p>
<p>DRAFTED BY: L. Sue/J. Sala</p> <p>DATE: 04/27/06</p>	<p>CHECKED BY: A. Dominguez</p> <p>REVISION DATE:</p>	<p>PROJECT NO. 67972-PWENV</p>	

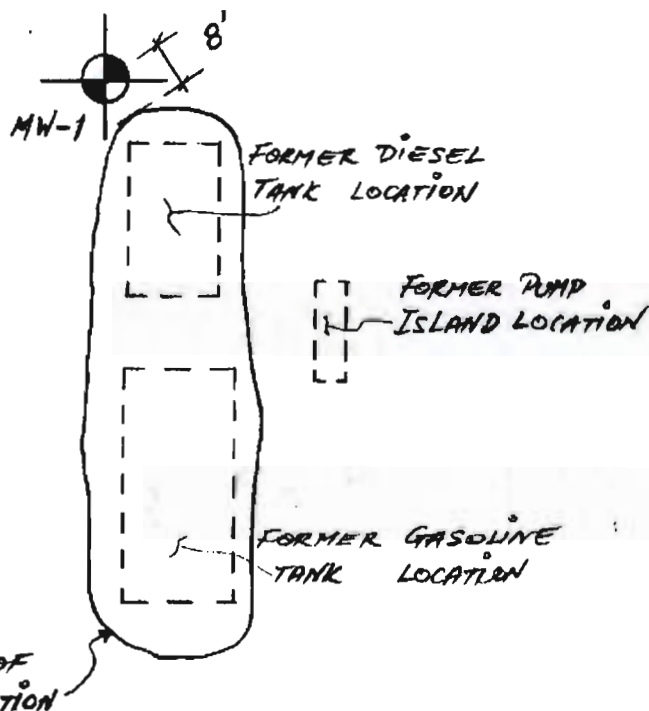
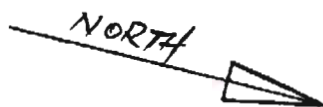
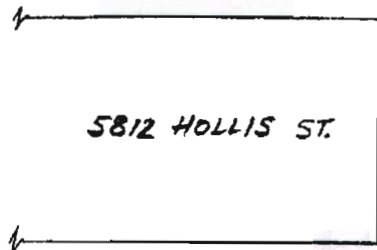
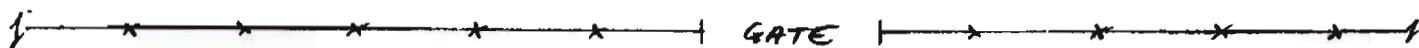


SAMPLE# 003147 H<sub>2</sub>O  
SAMPLE# 003146 COMPOSITE

5812 HOLLIS

J. QUARLE / POWER BLOCK 5812 HOLLIS, EMERYVILLE, CA	
Date: 12/5/89	Drawn by: K. PORTER
Scale: .5"=10'	Revised: Page: 1
<b>Legend</b>	
⊗ SAMPLE POINT	CHIPS Environmental Consultants

HOLLIS STREET



NOT TO SCALE

LEGEND

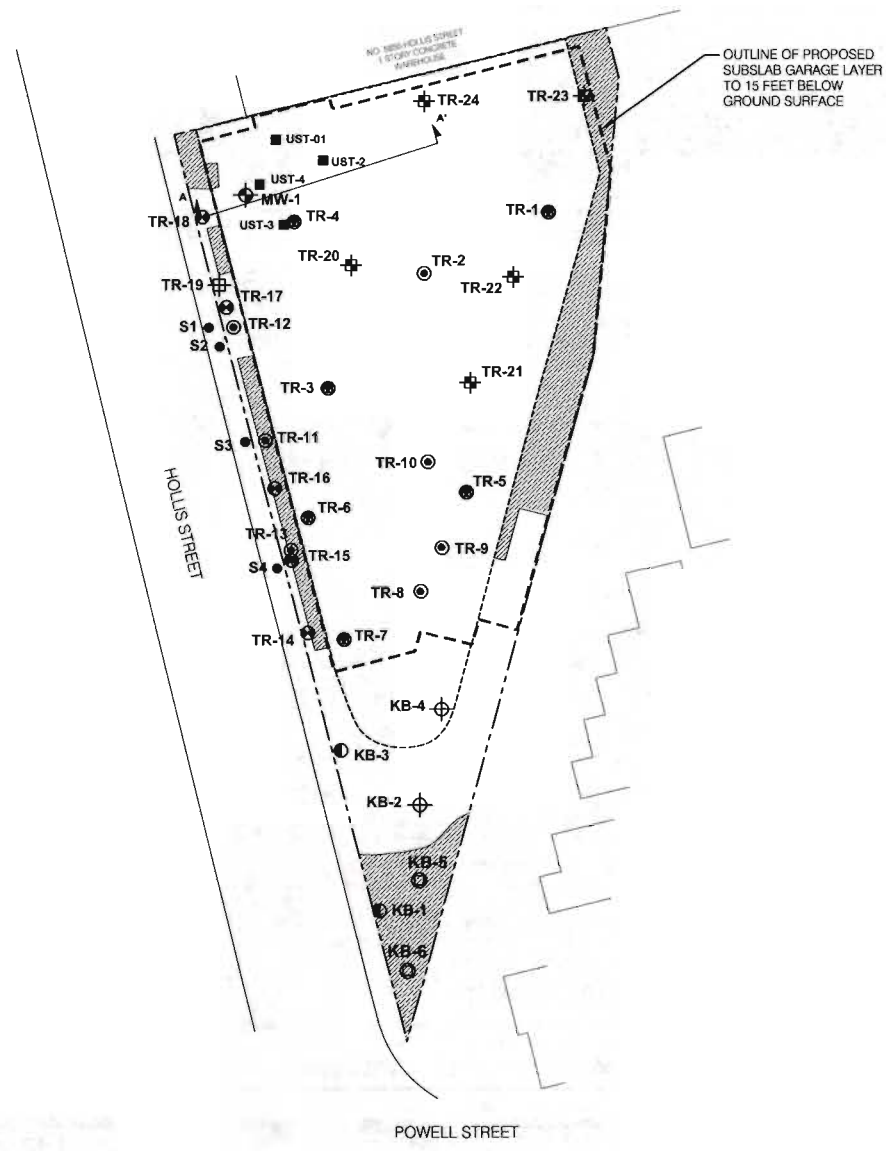


FIGURE 2 - SITE PLAN AND WELL LOCATION

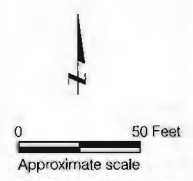
**SUMMIT ENGINEERING**

S:\Tranographics--Oak+4823\01-January 2010 Figures\04K--482302--Soil and GW Sampling Loc-FIG. 2.dwg 1/12/10

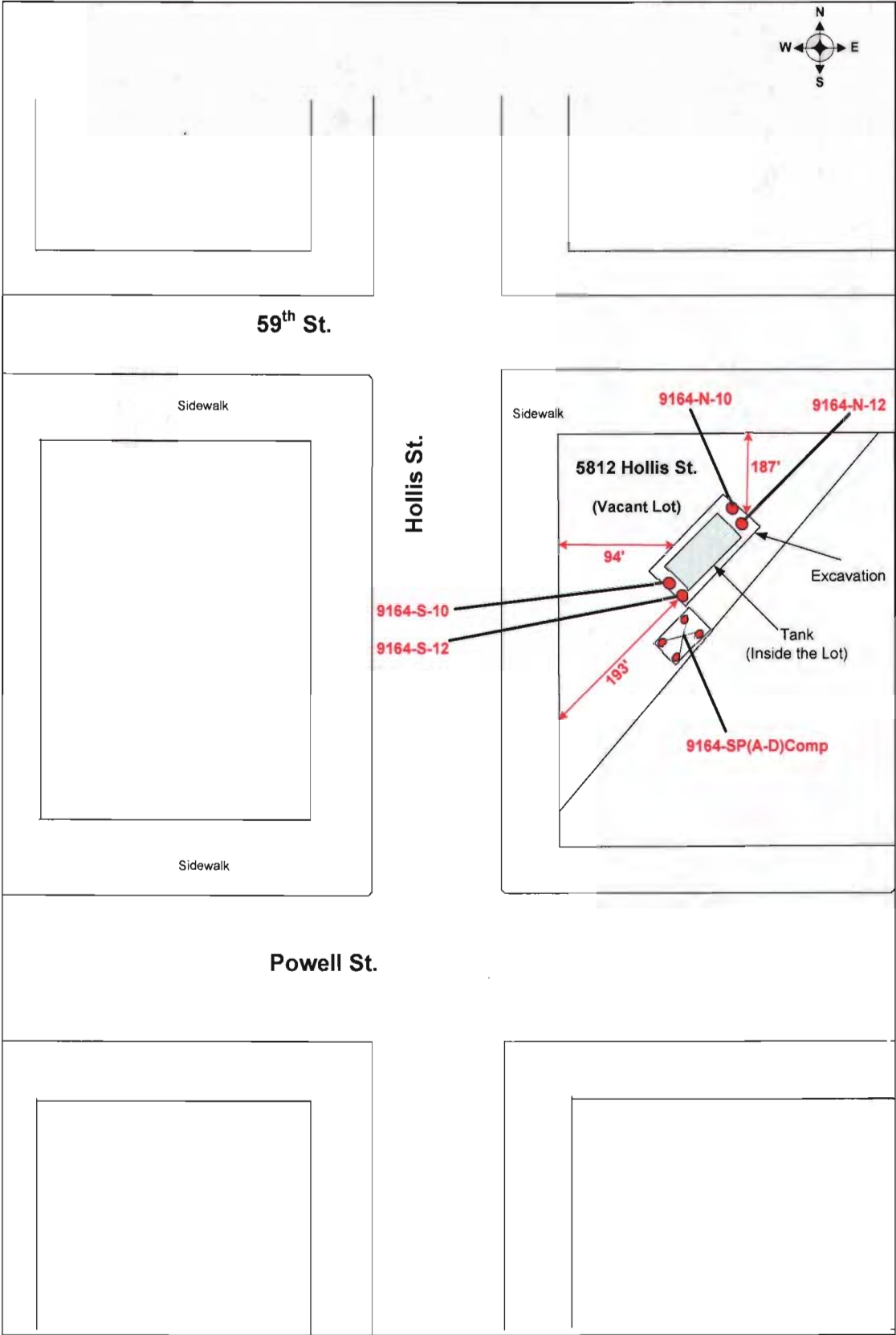
Reference: [www.terra-server-usa.com](http://www.terra-server-usa.com), 2006.



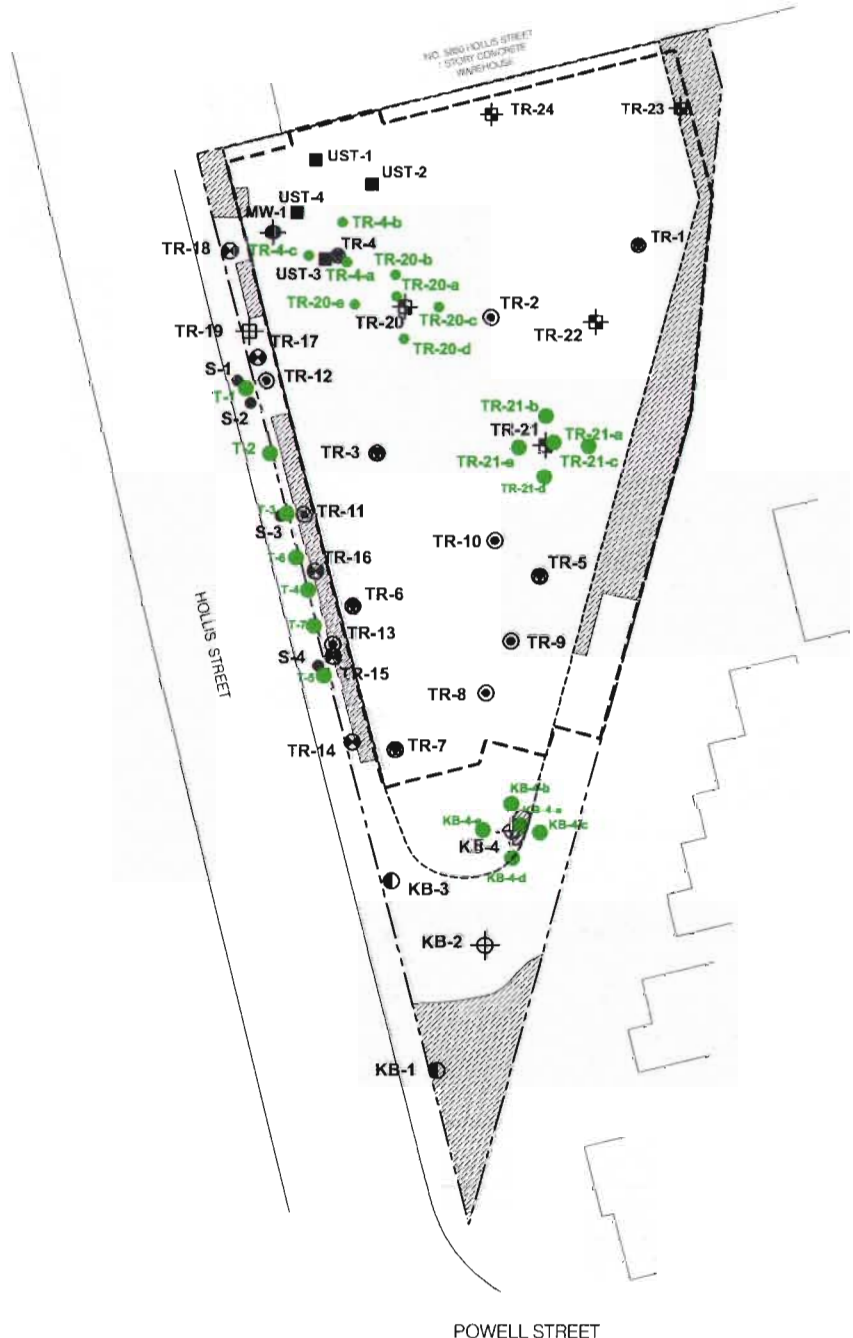
- EXPLANATION**
- Groundwater sampling locations by Treadwell & Rollo, Inc., March 2008
  - ⊙ Soil sampling location by Treadwell & Rollo, Inc., January 2008
  - ⊗ Soil and groundwater sampling location by Treadwell & Rollo, Inc., January 2008
  - ⊕ Soil sampling location by Treadwell & Rollo, Inc., April 2008
  - ⊕ Soil and groundwater sampling location by Treadwell & Rollo, Inc., April 2008
  - Previous sampling locations by Kleinfelder in 2006
  - ⊕ Soil sampling location by Kleinfelder in March 2009
  - ⊕ Soil and groundwater sampling locations by Kleinfelder in March 2009
  - ⊕ Monitoring well installed by Summit Engineering, 1993
  - Soil and groundwater sampling locations by Treadwell & Rollo, Inc., July 2009
  - ⊙ Soil sampling locations by Treadwell & Rollo, Inc., October 2009
  - Property boundary
  - A' A' Idealized cross section location



<b>5812 HOLLIS STREET</b> Emeryville, California		
<b>SOIL AND GROUNDWATER SAMPLING LOCATIONS</b>		
Date 01/12/10	Project No. 4823.02	Figure 2
<b>Treadwell &amp; Rollo</b>		



<b>GOLDEN GATE TANK REMOVAL, INC.</b> 3730 Mission Street, San Francisco, CA 94110 Ph (415) 512-1555 Fx (415) 512-0964		<b>Site Drawing</b> 5812 Hollis Street Emeryville, California 94608	
GGTR Project No. 9164	Drawing By: AC	September 2010	Figure 2



EXPLANATION

- ⊕ Soil sampling location by Treadwell & Rollo, April 2008
- Soil and groundwater sampling location by Treadwell & Rollo, January 2008
- ⊕ Monitoring well installed by Summit Engineering, 1993
- ⊕ Groundwater sampling locations by Treadwell & Rollo, Inc., March 2008
- ⊕ Soil sampling locations by Treadwell & Rollo, Inc., January 2008
- ⊕ Soil and groundwater sampling location by Treadwell & Rollo, Inc., April 2008
- ⊕ Soil and groundwater sampling locations by Kleinfelder in March 2009
- Previous composited soil sampling locations by Kleinfelder in 2006
- ⊕ Soil sampling location by Kleinfelder in March 2009
- ⊕ Exceeds State Hazardous Waste threshold of 1,000 mg/kg total lead
- Soil sampling locations by Treadwell & Rollo, Inc., July 2009
- ⊕ Soil and groundwater sampling location by Treadwell & Rollo, Inc., April 2008
- Property boundary
- Excavation limits
- Proposed overlying building

- (ft) bgs - Feet below ground surface
- TLLC - Total Threshold Limit Concentration
- STLC - Soluble Threshold Limit Concentration
- TGLP - Toxicity Characteristics Leaching procedure

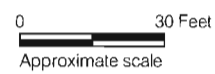
\* Concentration represents composite surface soil sample from S1 to S4.

⊕ Soil concentration of TPH-d exceeding 4,200 mg/kg

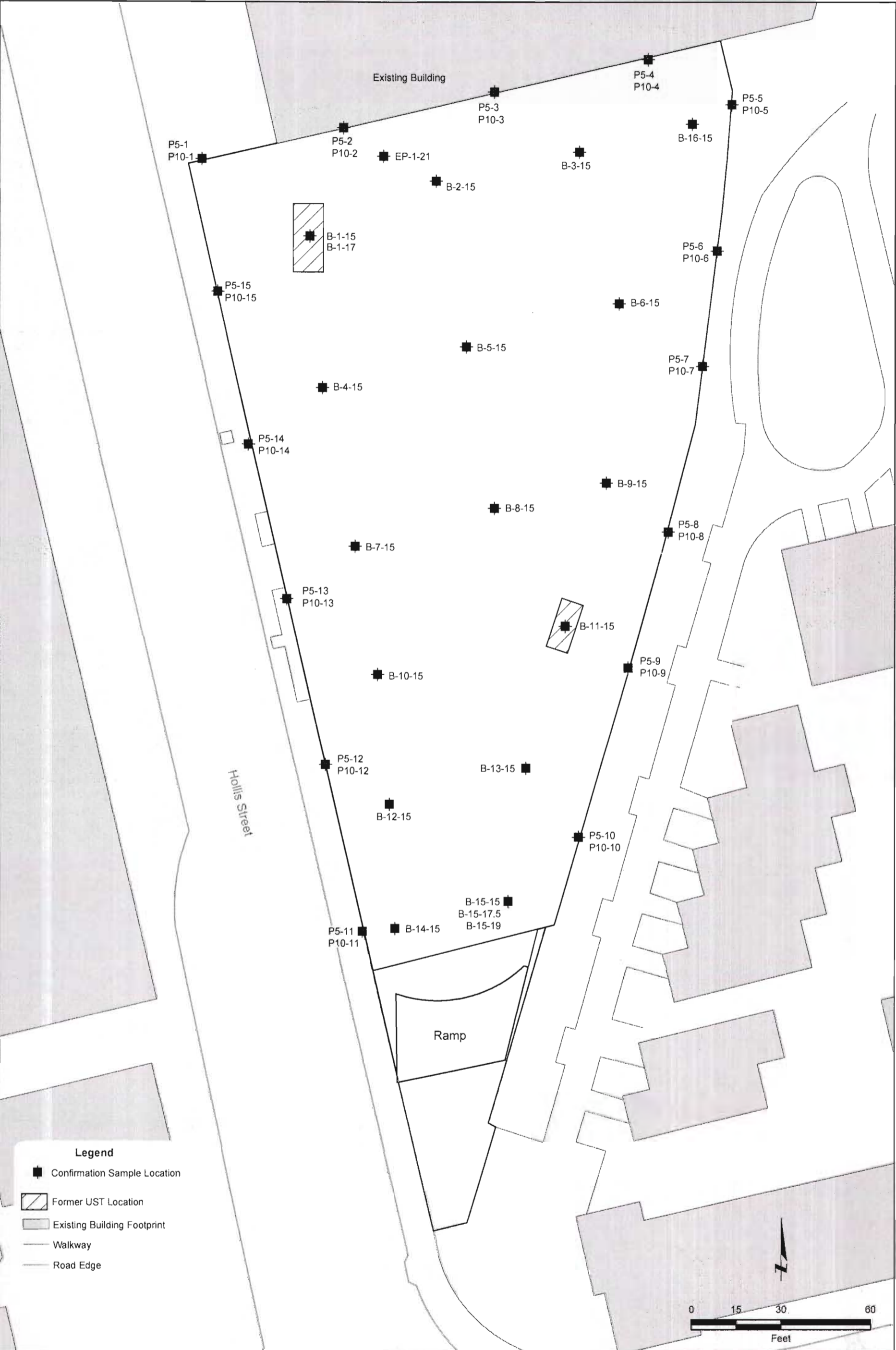
**ALDERS PROPERTY**  
**5812 HOLLIS STREET**  
 Emeryville, California

**PREVIOUS SAMPLING LOCATION**

Date 05/17/11 | Project No. 730482302 | Figure 2



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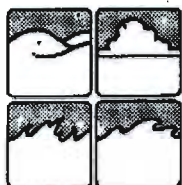
EMERYSTATION GREENWAY  
 5812 HOLLIS SREET  
 Emeryville, California

**Treadwell & Rollo**  
 A LANGAN COMPANY

**CONFIRMATION SOIL SAMPLING LOCATIONS**

Date 05/05/11	Project 730482302	Figure 2
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# CHIPS Environmental Consultants, Inc.

718 E. Evelyn Avenue  
Sunnyvale, CA 94086

(408)736-1380

Jack Quarle and Associates  
5835 Doyle Street  
Emeryville, California 94608

Attention: Jack Quarle

RE: Soil analysis, Power Block

### REPORT OF ANALYTICAL RESULTS Cal DHS Certification # 252

Sample Description: Soil Sample

Sample Integrity: Received sealed & Chilled w/ zero  
headspace

Sample ID: 003333	CECI ID: 003333
Date Sampled: 12-5-89	CECI Project #: 707
Date Received: 12-5-89	
Date Analyzed: 12-7-89	

Method	Concentration	Milligrams per Kilogram (PPM)	Det. Limit
--------	---------------	-------------------------------	------------

EPA 8015 & 8020 Purge & Trap			
DHS TPH as Gasoline	ND		0.05
Benzene	ND		0.05
Toluene	ND		0.05
Ethyl Benzene	ND		0.05
Xylenes	ND		0.05

Mark Chips:   
Laboratory Director

Page 8



# CHIPS Environmental Consultants, Inc.

718 E. Evelyn Avenue  
Sunnyvale, CA 94086

(408)736-1380

Jack Quarle and Associates  
5835 Doyle Street  
Emeryville, California 94608

Attention: Jack Quarle

RE: Soil analysis, Power Block

## REPORT OF ANALYTICAL RESULTS Cal DHS Certification # 252

Sample Description: Soil Sample, Backfill Composite

Sample Integrity: Received sealed & Chilled w/ zero  
headspace

Sample ID: 003146

CECI ID: 003146

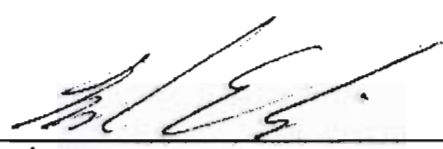
Date Sampled: 12-5-89

CECI Project #: 707

Date Received: 12-5-89

Date Analyzed: 12-7-89

Method	Concentration	Milligrams per Kilogram (PPM)	Det. Limit
DHS TPH as Diesel	5.6		1.0
EPA 8015 & 8020 Purge & Trap DHS TPH as Gasoline	ND		0.05
Benzene	ND		0.05
Toluene	ND		0.05
Ethyl Benzene	ND		0.05
Xylenes	ND		0.05

Mark Chips:   
Laboratory Director

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**Consultants, Inc.**

718 E. Evelyn Avenue  
 Sunnyvale, CA 94086

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 Emeryville, California 94608

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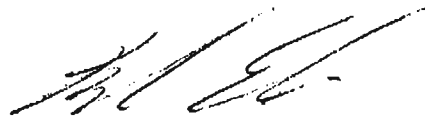
**REPORT OF ANALYTICAL RESULTS**  
**Cal DHS Certification # 252**

Sample Description: Soil Sample

Sample Integrity: Received sealed & Chilled w/ zero headspace

Sample ID: 003151	CECI ID: 003151
Date Sampled: 12-5-89	CECI Project #: 707
Date Received: 12-5-89	
Date Analyzed: 12-7-89	

Method	Concentration Milligrams per Kilogram (PPM)	
-----		
		Det. Limit
DHS TPH as Diesel	ND	1.0
EPA 8015 & 8020 Purge & Trap		
DHS TPH as Gasoline	ND	0.05
Benzene	ND	0.05
Toluene	ND	0.05
Ethyl Benzene	ND	0.05
Xylenes	ND	0.05

Mark Chips:   
 Laboratory Director



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Emeryville, California 94608

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**REPORT OF ANALYTICAL RESULTS**  
**Cal DHS Certification # 252**

Sample Description: Soil Sample

Sample Integrity: Received sealed & Chilled w/ zero headspace

Sample ID: 003149

CECI ID: 003149

Date Sampled: 12-5-89

CECI Project #: 707

Date Received: 12-5-89

Date Analyzed: 12-7-89

Method	Concentration	Milligrams per Kilogram (PPM)	Det. Limit
DHS TPH as Diesel	3.5		1.0
EPA 8015 & 8020 Purge & Trap DHS TPH as Gasoline	0.25		0.05
Benzene	ND		0.05
Toluene	ND		0.05
Ethyl Benzene	ND		0.05
Xylenes	ND		0.05

Mark Chips:   
Laboratory Director

Page 4



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Jack Quarle and Associates  
5835 Doyle Street  
Emeryville, California 94608

Attention: Jack Quarle

RE: Soil analysis, Power Block

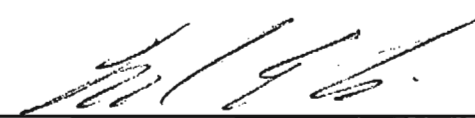
### REPORT OF ANALYTICAL RESULTS Cal DHS Certification # 252

Sample Description: Soil Sample

Sample Integrity: Received sealed & Chilled w/ zero headspace

Sample ID: 003150	CECI ID: 003150
Date Sampled: 12-5-89	CECI Project #: 707
Date Received: 12-5-89	
Date Analyzed: 12-7-89	

Method	Concentration	Milligrams per Kilogram (PPM)	Det. Limit
DHS TPH as Diesel	23		1.0
EPA 8015 & 8020 Purge & Trap DHS TPH as Gasoline	ND		
Benzene	ND		0.05
Toluene	ND		0.05
Ethyl Benzene	ND		0.05
Xylenes	ND		0.05

Mark Chips:   
Laboratory Director



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5835 Doyle Street  
Emeryville, California 94608

Attention: Jack Quarle

RE: Soil analysis, Power Block

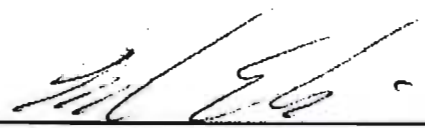
### REPORT OF ANALYTICAL RESULTS Cal DHS Certification # 252

Sample Description: Soil Sample

Sample Integrity: Received sealed & Chilled w/ zero  
headspace

Sample ID: 003148	CECI ID: 003148
Date Sampled: 12-5-89	CECI Project #: 707
Date Received: 12-5-89	
Date Analyzed: 12-7-89	

Method	Concentration	Milligrams per Kilogram (PPM)	Det. Limit
DHS TPH as Diesel	3.4		1.0
EPA & 8020 Purge & Trap			
Benzene	ND		0.05
Toluene	ND		0.05
Ethyl Benzene	ND		0.05
Xylenes	ND		0.05

Mark Chips:   
Laboratory Director



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718 E. Evelyn Avenue  
 Sunnyvale, CA 94086

(408)736-1380

December 13, 1989

DSK6 707.DOC

Jack Quarle and Associates  
 5835 Doyle Street  
 Emeryville, California 94608

Attention: Jack Quarle

RE: Soil analysis, Power Block

**REPORT OF ANALYTICAL RESULTS**  
**Cal DHS Certification # 252**

Sample Description: Water Sample

Sample Integrity: Received sealed & Chilled w/ zero headspace

Sample ID: 003147  
 Date Sampled: 12-5-89  
 Date Received: 12-5-89  
 Date Analyzed: 12-7-89

CECI ID: 003147  
 CECI Project #: 707

Method	Concentration	Milligrams per Liter (PPM)	Det. Limit
DHS TPH as Diesel	90		1.0
EPA 8015 & 8020 Purge & Trap DHS TPH as Gasoline	2.3		0.005
Benzene	0.1		0.005
Toluene	0.2		0.005
Ethyl Benzene	0.04		0.005
Xylenes	0.31		0.005

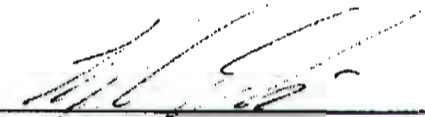
Mark Chips:   
 Laboratory Director

Table 2.  
METALS IN SOIL  
ALDERS PROPERTY  
5812 Hollis Street  
Emeryville, California

Table with columns: Sample ID, Depth, Date Sampled, and various metals (Sb, As, Ba, Be, Cd, Cr, Cr by WET, Cr by TCLP, Co, Cu, Pb, Pb by WET, Pb by TCLP, Mo, Ni, Se, Ag, Tl, V, Zn, Hg). Includes summary rows for ITLC, STLC, and TCLP (Federal).

Notes:
bgs = Below ground surface
< = Indicates not detected at or above the indicated laboratory detection limit
"--" = Not analyzed
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
Pb by WET = Soluble lead concentrations analyzed by the Waste Extraction Test
Sb = Antimony, As = Arsenic, Ba = Barium, Be = Beryllium, Cd = Cadmium, Cr = Chromium, Co = Cobalt, Cu = Copper, Pb = Lead, Mo = Molybdenum, Ni = Nickel, Se = Selenium, Ag = Silver, Tl = Thallium, V = Vanadium, Zn = Zinc, Hg = Mercury



Table - 1

RESULTS OF SOIL ANALYSIS  
(Sample S-2 at 10 ft)

<u>Compound</u>	<u>Concentration (ppm)</u>	<u>Detect. Limit (ppm)</u>
Benz	ND	0.005
Tol	"	"
EBenz	"	"
Xyl	"	"
TPH-g (a)	14	1
TPH-d (b)	40	1

Notes -

- (a) Heavy hydrocarbon in the gasoline range.
- (b) Heavy hydrocarbon in the diesel range.

Soil cuttings were stored in drums on site and are awaiting disposal.

**WATER SAMPLING AND ANALYSIS**

Forty eight hours after development, the well was sampled. A clear bailer was used to collect and examine the standing water; no sheen or floaters were observed. Using an interface probe, groundwater was detected 4 feet 7 inches below TOC, i.e. groundwater elevation was determined to be at 16.67 feet (MSL).

The well was purged by pumping 5 gallons of water. A set of water samples was collected in chemically clean bottles and vials, placed in ice, and transported under chain of custody to the laboratory for analysis of TPH-g, TPH-d, and BTEX using EPA methods 5030, 8015m (DHS Extraction Method), and 8020 respectively. Results of analysis are shown below :

Table - 2

RESULTS OF GROUNDWATER ANALYSIS

<u>Compound</u>	<u>Concentration (µg/l)</u>	<u>Detect. Limit (µg/l)</u>
Benz	ND	0.3
Tol	"	"
EBenz	"	"
Xyl	"	0.6
TPH-g	"	50
TPH-d	"	"

**TABLE 2**  
**Soil Analytical Results**  
**5812 Hollis Street**  
**Emeryville, CA**

Location	Sample ID	Sample Date	Sample Depth feet (bgs)	TPH-g mg/kg	TPH-d mg/kg	TPH-mo mg/kg	Benzene mg/kg	Ethyl-benzene mg/kg	Toluene mg/kg	Xylenes mg/kg	Fuel Oxygenates mg/kg
UST-01	UST-01 8-8.5	07/06/09	8.0-8.5	< 0.25	15 <sup>e3,e7</sup>	16 <sup>e3,e7</sup>	< 0.005	< 0.005	< 0.005	< 0.005	ND
	UST-01 15-15.5	07/06/09	15.0-15.2	< 0.25	< 1.0	< 5.0	< 0.005	< 0.005	< 0.005	< 0.005	ND
	UST-01 19.5-20	07/06/09	19.5-20.0	< 0.25	15 <sup>e3,e7</sup>	11 <sup>e3,e7</sup>	< 0.005	< 0.005	< 0.005	< 0.005	ND
	UST-1-DEEP 20	07/07/09	20.0-20.5	< 1.0	< 1.0	< 5.0	< 0.005	< 0.005	< 0.005	< 0.005	ND
UST-1-DEEP 24-25	07/07/09	24.0-25.0	< 1.0	< 1.0	< 5.0	< 0.005	< 0.005	< 0.005	< 0.005	ND	
UST-02	UST-02 11.5-12	07/06/09	11.5-12.0	< 0.25	17 <sup>e2,e7</sup>	44 <sup>e2,e7</sup>	< 0.005	< 0.005	< 0.005	< 0.005	ND
	UST-02 19.5-20	07/06/09	19.5-20.0	< 0.25	< 1.0	< 5.0	< 0.005	< 0.005	< 0.005	< 0.005	ND
	UST-02 27.5-28	07/06/09	27.5-28.0	< 0.25	1.0 <sup>e2,e7</sup>	9.5 <sup>e2,e7</sup>	< 0.005	< 0.005	< 0.005	< 0.005	ND
UST-03	UST-03 4.5-5	07/06/09	4.5-5.0	< 0.25	< 1.0	7.5 <sup>e7</sup>	< 0.005	< 0.005	< 0.005	< 0.005	ND
	UST-03 7.5-8	07/06/09	7.5-8.0	0.86	<b>530</b> <sup>e1,e7</sup>	290 <sup>e1,e7</sup>	< 0.005	< 0.005	< 0.005	< 0.005	ND
	UST-03 13.5-14	07/06/09	13.5-14.0	0.46	<b>110</b> <sup>e3,e7</sup>	66 <sup>e3,e7</sup>	< 0.005	< 0.005	< 0.005	< 0.005	ND
	UST-03 15-15.5	07/06/09	15-15.5	< 0.25	< 1.0	< 5.0	--	--	--	--	--
UST-04	UST-04 8.5-9	07/06/09	8.5-9.0	1.9	<b>260</b> <sup>e3,e7</sup>	190 <sup>e3,e7</sup>	< 0.005	< 0.005	< 0.005	< 0.005	ND
	UST-04 10-10.5	07/06/09	10.0-10.5	0.81	<b>290</b> <sup>e3,e7</sup>	160 <sup>e3,e7</sup>	< 0.005	< 0.005	< 0.005	< 0.005	ND
	UST-04 15-15.5	07/06/09	15.0-15.5	< 0.25	1.8 <sup>e2</sup>	< 5.0	< 0.005	< 0.005	< 0.005	< 0.005	ND
TR-1	TR-1-0.5	01/22/08	0.5-1.0	< 0.100	11	114	< 0.01	< 0.01	< 0.01	< 0.01	ND
	TR-1-5.0	01/22/08	5.0-5.5	< 0.100	< 2.0	< 4.0	< 0.01	< 0.01	< 0.01	< 0.01	ND
TR-4	TR-4-1.5	01/22/08	1.5-2.0	< 0.100	34.2x	309x	< 0.01	< 0.01	< 0.01	< 0.01	ND
	TR-4-5.0	01/22/08	5.0-5.5	0.44y	57.4x	58.4x	< 0.05	< 0.05	< 0.05	< 0.10	ND
TR-19	TR-19-2.5	04/17/08	2.5-3.0	< 0.100	< 2.0	22	< 0.01	< 0.01	< 0.01	< 0.01	ND
	TR-19-5.0	04/17/08	5.0-5.5	< 0.100	< 2.0	< 4.0	< 0.01	< 0.01	< 0.01	< 0.01	ND
TR-23	TR-23-2.5	04/17/08	2.5-3.0	< 0.100	< 2.0	< 4.0	< 0.01	< 0.01	< 0.01	< 0.01	ND
	TR-23-5.0	04/17/08	5.0-5.5	< 0.100	< 2.0	< 4.0	< 0.01	< 0.01	< 0.01	< 0.01	ND
TR-24	TR-24-2.5	04/17/08	2.5-3.0	< 0.100	< 2.0	71.3	< 0.01	< 0.01	< 0.01	< 0.01	ND
	TR-24-5.0	04/17/08	5.0-5.5	< 0.100	< 2.0	< 4.0	< 0.01	< 0.01	< 0.01	< 0.01	ND
ESL-R (Table A)				83	83	370	0.044	2.3	2.9	2.3	NA

**Notes:**

-- = not analyzed                      bgs = below the ground surface                      mg/kg - milligrams per kilogram

< 0.25 = not detected above laboratory reporting limit

ND = not detected above laboratory reporting limit, reporting limit varies - see laboratory report

NA = not applicable

TPH-g = Total Petroleum Hydrocarbons quantified as gasoline by EPA Method 8260B

TPH-d = Total Petroleum Hydrocarbons quantified as diesel fuel by EPA Method 8015B

TPH-mo = Total Petroleum Hydrocarbons quantified as motor oil by EPA Method 8015B

ESL-R (Table A): Shallow soils (less than 10 feet bgs) where groundwater is a current or potential source of drinking water for residential land use (SF-RWQCB, May 2008)

ESL = Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater by the San Francisco Bay Regional Water Quality Control Board (2007, revised May 2008).

Concentrations in **bold** exceed their respective ESL

**Footnotes:**

e1 = unmodified or weakly modified diesel is significant

e2 = diesel range compounds are significant; no recognizable pattern

e3 = aged diesel is significant

e7 = oil range compounds are significant

x = laboratory reports that the sample chromatogram does not resemble typical diesel or motor oil pattern

y = laboratory reports that the sample is "not typical gasoline (heavy end hydrocarbonic)

## SAMPLING RESULTS FORM

Underground Storage Tank Site Address: 5812 Hollis Street, Emeryville, CA 94608

Business Site Name: Commercial (Vacant Lot)

Description Sample ID (Specify location; i.e., tank, pipe, stockpile) and number	Sample Depth (Indicate depth of sample from grade)	Media (soil/water)	Date (Date Sample was collected)	Soil Type (specify if sand, clay, fill, etc.)	Results expressed in parts per million (ppm)															
					TPH-GRO	TPH-D	TPH-MO	B	T	E	X	1,2-Dib	1,2-Dic	Di-IE	Ethyl alcohol	ETBE	MTBE	TAME	TBA	LEAD
9164-SP(A-D)COMP (Stockpile)	Not Applicable	soil	8/4/2010	clay	3.39	ND<100	1240**	ND<0.250	ND<0.250	ND<0.250	ND<0.500	ND<0.250	ND<0.250	ND<0.250	ND<25	ND<0.250	ND<0.250	ND<0.250	ND<2.000	78
9164-VC(A-D)COMP (Stockpile)	Not Applicable	soil	8/4/2010	clay	72.3	ND<10	ND<20	ND<0.250	0.0805	0.298	1.59	ND<0.250	ND<0.250	ND<0.250	ND<25	ND<0.250	ND<0.250	ND<0.250	ND<2.000	31
9164-N-10 (Excavation)	10 feet	soil	8/4/2010	clay	ND<0.098	ND<10	ND<20	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0098	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.490	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.039	6.5
9164-N-12 (Excavation)	12 feet	soil	8/4/2010	clay	ND<0.098	ND<40	224**	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0098	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.490	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.039	7.4
9164-S-10 (Excavation)	10 feet	soil	8/4/2010	clay	ND<0.098	ND<10	ND<20	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0098	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.490	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.039	ND
9164-S-12 (Excavation)	12 feet	soil	8/4/2010	clay	ND<0.098	ND<10	ND<20	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.0098	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.490	ND<0.0049	ND<0.0049	ND<0.0049	ND<0.039	5.7
9164-R3 (Rinsate)	Not Applicable	Water	8/3/2010	N/A	942	0.451*	ND<0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TPH-D = Total Petroleum Hydrocarbons as Diesel  
 TPH-GRO = Total Petroleum Hydrocarbons as Gasoline  
 BTEX = Benzene, Toluene, Ethylbenzene, Xylene  
 1,2-Dib = 1,2-Dibromoethane  
 1,2-Dic = 1,2-Dichloroethane  
 Di-IE = Di-Isopropyl Ether  
 ETBE = Ethyl tert-Butyl Ether  
 MTBE = Methyl-t-Butyl Ether  
 TAME = Tert-Amyl Methyl Ether  
 TBA = Tert Butyl Alcohol  
 NA = Not Analyzed  
 ND = Non-Detectable Results  
 \* = Higher boiling gasoline compounds in Diesel range  
 \*\* = Estimate value due to multiple discrete peaks mixed with Motor Oil  
 List of additional analytical results and detection limits on attached certified lab report

**Table 1**  
**Confirmation Soil Samples**  
**Analytical Results for Petroleum Hydrocarbons**  
**EmeryStation Greenway**  
**5812 Hollis Street**  
**Emeryville, California**  
**Project: 730482302**

Sample ID	Depth feet	Date Sample	TPHg	TPHd	TPHmo	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	SVOC
			mg/kg								
<b>Sidewall Samples</b>											
P5-1	5	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P5-2	5	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P5-3	5	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P5-4	5	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P5-5	5	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P5-6	5	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P5-7	5	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P5-8	5	04/05/11	< 1.0	1.6	6.9	--	--	--	--	--	ND
P5-9	5	04/05/11	< 1.0	6.5	14	--	--	--	--	--	ND
P5-10	5	04/05/11	< 1.0	8.9	11	--	--	--	--	--	<b>1</b>
P5-11	5	04/05/11	<b>580</b>	<b>13,000</b>	<b>5,500</b>	--	--	--	--	--	ND
P5-12	5	04/05/11	< 1.0	4.0	< 5.0	--	--	--	--	--	ND
P5-13	5	04/05/11	< 1.0	2.4	< 5.0	--	--	--	--	--	ND
P5-14	5	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P5-15	5	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P10-1	10	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P10-2	10	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P10-3	10	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P10-4	10	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P10-5	10	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P10-6	10	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P10-7	10	04/05/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P10-8	10	04/18/11	< 1.0	1.8	< 5.0	--	--	--	--	--	ND
P10-9	10	04/18/11	6.2	<b>100</b>	52	--	--	--	--	--	ND
P10-10	10	04/18/11	< 1.0	2.5	< 5.0	--	--	--	--	--	ND
P10-11	10	04/15/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P10-12	10	04/15/11	14	28	13	--	--	--	--	--	ND
P10-13	10	04/08/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P10-14	10	04/08/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
P10-15	10	04/05/11	3.8	<b>370</b>	160	--	--	--	--	--	ND
<b>Bottom Samples</b>											
B-1-15	15	04/15/11	5.2	<b>210</b>	160	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	ND
B-1-17	17	04/26/11	< 1.0	< 1.0	< 5.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	ND
B-2-15	15	04/15/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
B-3-15	15	04/15/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
B-4-15	15	04/15/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
B-5-15	15	04/15/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
B-6-15	15	04/15/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
B-7-15	15	04/15/11	4.1	45	120	--	--	--	--	--	ND
B-8-15	15	04/15/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
B-9-15	15	04/15/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
B-10-15	15	04/18/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
B-11-15	15	04/18/11	< 1.0	< 1.0	< 5.0	< 0.05	< 0.005	< 0.005	< 0.005	< 0.005	ND
B-12-15	15	04/18/11	< 1.0	1.8	< 5.0	--	--	--	--	--	ND
B-13-15	15	04/18/11	< 1.0	10	< 5.0	--	--	--	--	--	ND
B-14-15	15	04/18/11	3.5	52	44	--	--	--	--	--	ND
B-15-15	15	04/18/11	21	<b>630</b>	240	--	--	--	--	--	ND
B-15-17.5	17.5	04/28/11	79	<b>270</b>	61	--	--	--	--	--	ND
B-15-19	19	05/03/11	27	<b>100</b>	31	--	--	--	--	--	ND
B-15-20	20	05/05/11	< 1.0	2.8	< 5.0	--	--	--	--	--	ND
B-16-15	15	04/18/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
EP-1	21	04/20/11	< 1.0	< 1.0	< 5.0	--	--	--	--	--	ND
<b>Cleanup Goals for the Site (mg/kg) (Residential ESL, Shallow Soil, Groundwater is Drinking Water Resource)</b>			83	83	370	NA	NA	NA	NA	NA	Various

**Notes:**

mg/kg - milligrams per kilograms  
 TPHg - Total Petroleum Hydrocarbons as Gasoline, EPA Method 8015M  
 TPHd - Total Petroleum Hydrocarbons as Diesel Range, EPA Method 8015M  
 TPHmo - Total Petroleum Hydrocarbons as Motor Oil, EPA Method 8015M  
 MTBE - Methyl Tert-Butyl Ether, EPA Method 8260B  
 Benzene, Toluene, Ethylbenzene, and Xylenes, EPA Method 8260B  
 SVOC - semi-volatile organic compounds, EPA Method 8270  
 Concentration listed in **bold** indicate an exceedance of applicable cleanup levels.  
 NA - Not Applicable

<sup>1</sup> - **0.42** mg/kg Benzo(a)anthracene, **0.49** mg/kg Benzo(k)fluoranthene, **0.79**mg/kg Benzo(a)pyrene, 0.51 mg/kg Chrysene, 1.1 mg/kg Fluoranthene, **0.68** mg/kg Indeno(1,2,3-cd)pyrene, **0.60** mg/kg Benzo(b)fluoranthene, 1.2 mg/kg Benzo(g,h,i)perylene, 0.48 mg/kg Phenanthrene, and 1.9 mg/kg Pyrene are detected in P5-10.

**Table 2**  
**Confirmation Soil Samples**  
**Analytical Results for Total Lead**  
**EmeryStation Greenway**  
**5812 Hollis Street**  
**Emeryville, California**  
**Project: 730482302**

Sample ID	Depth interval feet	Date Sampled	Lead (mg/kg)
<b>Sidewall Samples</b>			
P5-1	5	04/05/11	7.8
P5-2	5	4/5/2011	8.6
P5-3	5	4/5/2011	< 5.0
P5-4	5	4/5/2011	7.8
P5-5	5	4/5/2011	8.9
P5-6	5	4/5/2011	10
P5-7	5	4/5/2011	5.1
P5-8	5	4/5/2011	14
P5-9	5	4/5/2011	8.6
P5-10	5	4/5/2011	15
P5-11	5	4/5/2011	7.5
P5-12	5	04/05/11	8.3
P5-13	5	04/05/11	6.4
P5-14	5	04/05/11	6.2
P5-15	5	04/05/11	8.4
P10-1	10	04/05/11	9.5
P10-2	10	04/05/11	< 5.0
P10-3	10	04/05/11	7.1
P10-4	10	04/05/11	< 5.0
P10-5	10	04/05/11	< 5.0
P10-6	10	04/05/11	8
P10-7	10	04/05/11	6
P10-8	10	04/18/11	11
P10-9	10	04/18/11	9.9
P10-10	10	04/18/11	12
P10-11	10	04/15/11	13
P10-12	10	04/15/11	5.1
P10-13	10	04/08/11	8.7
P10-14	10	04/08/11	9.3
P10-15	10	04/05/11	6.3
<b>Bottom Samples</b>			
B-1-15	15	04/15/11	6.6
B-1-17	17	04/26/11	5.2
B-2-15	15	04/15/11	5.6
B-3-15	15	04/15/11	8.4
B-4-15	15	04/15/11	12
B-5-15	15	04/15/11	7.8
B-6-15	15	04/15/11	5.7
B-7-15	15	04/15/11	8.6
B-8-15	15	04/15/11	11
B-9-15	15	04/15/11	7.6
B-10-15	15	04/18/11	< 5.0
B-11-15	15	04/18/11	7.3
B-12-15	15	04/18/11	8.2
B-13-15	15	04/18/11	13
B-14-15	15	04/18/11	7.6
B-15-15	15	04/18/11	7.2
B-15-17.5	17.5	04/28/11	9.1
B-16-15	15	04/18/11	7.0
EP-1	21	04/20/11	8.6
<b>Cleanup Goals for Lead (mg/kg) (Residential California Human Health Screen Level [CHSSL])</b>			<b>80</b>

Notes:  
mg/kg - milligrams per kilograms  
< 5.0 - Analyte was not detected above the laboratory reporting limit (5.0 mg/kg).

Sent By: BASELINE;

510 420 1707;

Jan-8-08 1:44PM;

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Curtis &amp; Tompkins, Ltd.

Lab #:	187752	Location:	5812 Hollis St. Emeryville CA
Client:	Baseline Environmental	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8021B
Field ID:	MW-1	Sampled:	06/29/06
Matrix:	Water	Received:	06/29/06
Diln Fac:	1.000	Analyzed:	06/29/06
Batch#:	114860		

Type: SAMPLE Units: ug/L  
 Lab ID: 187752-001

MTBE	ND	2.0
------	----	-----

Trifluorotoluene (PID)	57	64-132
Bromofluorobenzene (PID)	101	80-120

Type: BLANK Units: ug/Kg  
 Lab ID: QC345749

MTBE	ND	2.0
------	----	-----

Trifluorotoluene (PID)	85	64-132
Bromofluorobenzene (PID)	93	80-120

ND= Not Detected  
 RL= Reporting Limit  
 Page 1 of 1

MW-1 Table - 1

RESULTS OF GROUNDWATER ANALYSIS

<u>Compound</u>	<u>Concentration (µg/l)</u>	<u>Detect. Limit (µg/l)</u>
Benz	ND	0.3
Tol	"	"
EBenz	"	"
Xyl	"	"
TPH-g	"	50
TPH-d	"	"

**TABLE 1**  
**Groundwater Levels**  
**5812 Hollis Street**  
**Emeryville, California**

<b>Well/Boring No.</b>	<b>Date</b>	<b>Screen Interval feet bgs</b>	<b>DTW feet bgs</b>
MW-1	06/29/06	4.6-19.6	6.7
	<b>04/24/09</b>		<b>5.25</b>
	<b>04/27/09</b>		<b>5.31</b>
	<b>05/19/09</b>		<b>4.85</b>
	07/07/09		5.28
<b>UST-01</b>	<b>07/07/09</b>	<b>4.0-9.0</b>	<b>6.37</b>
<b>UST-02</b>	<b>07/07/09</b>	<b>27-30</b>	<b>22.78*</b>
UST-03	07/07/09	4.0-9.0	6.14
UST-04	07/07/09	4.0-9.0	5.86

Notes:

DTW = depth to water

bgs = below ground surface

\*UST-2 was drilled to 30 feet bgs. The screen was exposed from 27-30 feet bgs in order to collect a depth discrete sample beneath the former UST backfill area.



**TABLE 3**  
**Groundwater Analytical Results**  
**5812 Hollis Street**  
**Emeryville, California**

Sample ID	Sample Date	TPH-g µg/l	TPH-d µg/l	TPH-mo µg/l	Benzene µg/l	Ethylbenzene µg/l	Toluene µg/l	Xylenes µg/l	Fuel Oxygenates µg/l	TDS mg/l
MW-01	07/07/09	< 50	< 50	< 250	< 0.5	< 0.5	< 0.5	< 0.5	ND	1,310
UST-01	07/07/09	< 50	110 <sup>b1,e2</sup>	< 250	< 0.5	< 0.5	< 0.5	< 0.5	ND	618 <sup>b1</sup>
UST-02	07/07/09	390	150 <sup>b1,e2,e7</sup>	390 <sup>b1,e2,e7</sup>	< 0.5	< 0.5	< 0.5	< 0.5	3.1 = TBA others = ND	1,120 <sup>b1</sup>
UST-03	07/07/09	< 50 <sup>1</sup> , 960 <sup>b1,b6,d7</sup>	29,000 <sup>b1,e1</sup>	17,000 <sup>b1,e1</sup>	< 0.5	< 0.5	< 0.5	< 0.5	ND	1,180 <sup>b1</sup>
UST-04	07/07/09	100	2,000 <sup>b1,e3,e7</sup>	1,700 <sup>b1,e3,e7</sup>	< 0.5	< 0.5	< 0.5	< 0.5	ND	659 <sup>b1</sup>
TR-1-GW	01/23/08	< 50	< 109	< 218	1.17	< 0.5	1.23	< 1.50	ND	--
TR-4-GW	01/23/08	< 50	< 103	< 206	< 0.5	< 0.5	1.61	< 1.50	ND	--
TR-17	03/05/08	--	--	--	< 5.5	< 5.5	< 5.5	< 16.5	DIPE = 352 Others = ND	--
TR-17 <sup>2</sup>	03/17/08	656 <sup>y</sup>	--	--	< 5.5	< 5.5	< 5.5	< 16.5	DIPE = 292 Others = ND	--
TR-18	03/04/08	--	--	--	< 0.74	< 0.74	3.07	2.35	ND	--
TR-19-GW	04/17/08	--	--	--	< 0.69	< 0.69	< 0.69	< 2.07	ND	--
ESL-R (Table A)		100	100	100	1	30	40	20	TBA = 12 DIPE = NE	

**Notes:**

-- = not analyzed                      µg/l - micrograms per liter                      mg/l - milligrams per liter  
 ND = not detected above laboratory reporting limit, reporting limit varies - see laboratory report  
 NE = not established

< 50 = not detected above laboratory reporting limit

TBA = t-Butyl alcohol

TPH-g = Total Petroleum Hydrocarbons quantified as gasoline by EPA Method 8260B

TPH-d = Total Petroleum Hydrocarbons quantified as diesel fuel by EPA Method 8015B

TPH-mo = Total Petroleum Hydrocarbons quantified as motor oil by EPA Method 8015B

TDS = total dissolved solids by EPA Method SM2540C

ESL = Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater by the San Francisco Bay Regional Water Quality Control Board (2007, revised May 2008).

ESL-R (Table A): Shallow soils (less than 10 feet bgs) where groundwater is a current or potential source of drinking water for residential land use (SF-RWQCB, May 2008)

Concentrations in **bold** exceed their respective ESL

**Footnote:**

1. Groundwater collected from UST-3 was initially analyzed for TPH-g by method 8260 and the resulting concentration was below laboratory reporting limits (< 50 µg/L). Groundwater stabilized in UST-3 over a period of 9 hours, was sampled again, and was subsequently analyzed for TPH-g using method 8015; the result was 960 µg/L

2. Groundwater sample from TR-17 was reanalyzed on 17 March 2008 for TPH-g, BTEX, and fuel oxygenates

b1 = aqueous sample that contains greater than ~1 vol. % sediment

b6 = lighter than water immiscible sheen/product is present

d7 = strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

e1 = unmodified or weakly modified diesel is significant

e2 = diesel range compounds are significant; no recognizable pattern

e3 = aged diesel is significant

e7 = oil range compounds are significant

y = laboratory flag indicating that the reported concentration is DIPE which was detected within the TPH-g range

**Table 2**  
**Groundwater Analytical Data**  
 5812 Hollis Street  
 Emeryville, California

Sample ID	Date Sampled	Sample Type	Total Petroleum Hydrocarbons			Volatile Organic Compounds		
			TPH-g	TPH-d	TPH-mo	Benzene	Toluene	Other VOCs
			(µg/L)					
TR-3-GW	01/23/08	grab	< 50	< 105	< 210	< 0.50	2.29	ND
TR-4-GW	01/23/08	grab	< 50	< 103	< 206	< 0.50	1.61	ND
TR-5-GW	01/23/08	grab	< 50	< 111	< 222	< 0.50	1.02	ND
TR-6-GW	01/23/08	grab	< 50	< 103	< 206	< 0.50	1.97	TCE = 1.69 cis-1,2 DCE = 1.04 Other VOCs = ND
TR-7-GW	01/24/08	grab	69.2	133x	< 212	< 0.50	2.11	sec-But = 0.52 Other VOCs = ND
TR-14	03/05/08	grab	--	--	--	< 5.5	< 5.5	TCE = 1.49 cis-1,2 DCE = 0.95 Other VOCs = ND
TR-15	03/05/08	grab	--	--	--	< 5.5	< 5.5	ND
TR-16	03/05/08	grab	--	--	--	< 0.5	< 0.5	ND
TR-17	03/05/08	grab	--	--	--	< 5.5	< 5.5	DIPE = 352 Other VOCs = ND
TR-17-Dup	03/17/08	grab	656y	--	--	< 5.5	< 5.5	DIPE = 292 Other VOCs = ND
TR-18	03/04/08	grab	--	--	--	< 0.74	3.07	ND
TR-19-GW	04/17/08	grab	--	--	--	< 0.69	< 0.69	ND
KB-1W	03/12/09	grab	< 50	< 50 <sup>1</sup> , < 50 <sup>2</sup>	< 300 <sup>1</sup> , < 300 <sup>2</sup>	< 0.50	< 0.50	ND
KB-3W	03/12/09	grab	< 50	85 <sup>1</sup> , < 60 <sup>2</sup>	< 300, < 360	< 0.50	< 0.50	Isopropylbenzene = 0.54 Other VOCs = ND
MW-1	07/07/09	purge/low flow	<50	<50	<250	< 0.50	1.2	ND
PW-081810	08/18/10	grab	< 50	1,200	630	< 0.50	< 0.50	ND
UST-1	07/07/09	grab	<50	110 <sup>b1, e2, 2</sup>	<250 <sup>2</sup>	< 0.50	< 0.50	ND
UST-2	07/07/09	grab	390	150 <sup>b1, e2, e7, 2</sup>	390 <sup>b1, e2, e7, 2</sup>	< 0.50	< 0.50	ND
UST-3	07/07/09	grab	960 <sup>b1, b6, d7</sup>	29,000 <sup>b1, e1, 2</sup>	17,000 <sup>b1, e1, 2</sup>	< 0.50	< 0.50	ND
UST-4	07/07/09	grab	100	2,000 <sup>b1, e3, e7, 2</sup>	1,700 <sup>b1, e3, e7, 2</sup>	< 0.50	< 0.50	ND
USTX-GW	07/20/10	grab	< 50	3,900 <sup>2</sup>	5,500 <sup>2</sup>	< 0.5	< 0.5	ND

**Notes:**

< 50 = Not detected at or above the indicated laboratory detection limit

µg/L = Micrograms per liter

ND = Not detected; refer to the laboratory analytical report in Appendix A for detection limits

x = Laboratory flag indicating that the sample chromatogram does not resemble the typical diesel fuel pattern

y = Laboratory flag indicating that the reported concentration is DIPE which was detected within the TPH-g range

"--" = Not analyzed

<sup>1</sup> = without silica gel cleanup

<sup>2</sup> = with silica gel cleanup

b1 = aqueous sample that contains greater than 1% vol% sediment

b6 = lighter than water immiscible sheen/product is present

d7 = strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

e1 = unmodified or weakly modified diesel is significant.

e2 = diesel range compounds are significant; no recognizable pattern

e3 = aged diesel is significant

e7 = oil range compounds are significant

Total Petroleum Hydrocarbons (TPH) quantified as gasoline (TPH-g), diesel fuel (TPH-d), and motor oil (TPH-mo) analyzed by EPA Method 8015; TPH-d and TPH-mo analyzed with silica gel cleanup

Volatile Organic Compounds (VOCs) analyzed by EPA Method 8260B. TCE = Trichloroethylene, cis-1,2-DCE = cis-1,2 Dichloroethylene, sec-But = sec-Butylbenzene, DIPE = Diisopropyl ether

Table 3.  
ORGANICS IN GROUNDWATER  
ALDERS PROPERTY  
5812 Hollis Street  
Emeryville, California

Sample ID	Date Sampled	Sample Type	Total Petroleum Hydrocarbons			Volatile Organic Compounds							SVOCs				
			TPH-g	TPH-d	TPH-mo	Benzene	Toluene	Total Xylenes	TCE	cis-1,2 DCE	Naphthalene	sec-But	Other VOCs	2-Met	Pent	Other SVOCs	
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
TR-1-GW	1/23/2008	grab	< 50	< 109	< 218	1.17	1.23	< 1.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	ND	< 13.0	22.6	ND
TR-3-GW	1/23/2008	grab	< 50	< 105	< 210	< 0.50	2.29	< 1.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	ND	--	--	--
TR-4-GW	1/23/2008	grab	< 50	< 103	< 206	< 0.50	1.61	< 1.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	ND	< 13.0	< 12.5	ND
TR-5-GW	1/23/2008	grab	< 50	< 111	< 222	< 0.50	1.02	< 1.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	ND	--	--	--
TR-6-GW	1/23/2008	grab	< 50	< 103	< 206	< 0.50	1.97	1.6	1.69	1.04	< 0.50	< 0.50	< 0.50	ND	--	--	--
TR-7-GW	1/24/2008	grab	69.2	133x	< 212	< 0.50	2.11	< 1.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	ND	17.8	< 11.2	ND
TR-14	3/5/2008	grab	--	--	--	< 5.5	< 5.5	< 5.5	< 16.5	< 5.5	< 5.5	< 5.5	< 5.5	ND	--	--	--
TR-15	3/5/2008	grab	--	--	--	< 5.5	< 5.5	< 5.5	1.49	0.95	< 5.5	< 5.5	< 5.5	ND	--	--	--
TR-16	3/5/2008	grab	--	--	--	< 0.5	< 0.5	< 1.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	ND	--	--	--
TR-17	3/5/2008	grab	--	--	--	< 5.5	< 5.5	< 16.5	< 16.5	< 5.5	< 5.5	< 5.5	< 5.5	DIPE = 352	--	--	--
TR-17-Dup	3/17/2008	grab	656y	--	--	< 5.5	< 5.5	< 16.5	--	--	--	--	--	DIPE = 292	--	--	--
TR-18	3/4/2008	grab	--	--	--	< 0.74	3.07	2.35	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	ND	--	--	--
TR-19-GW	4/17/2008	grab	--	--	--	< 0.69	< 0.69	< 2.07	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	ND	--	--	--
KB-1W	3/12/2009	grab	< 50	< 50 <sup>1</sup> , < 50 <sup>2</sup>	< 300 <sup>1</sup> , < 300 <sup>2</sup>	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	ND	--	--	--
KB-3W	3/12/2009	grab	< 50	85 <sup>1</sup> , < 60 <sup>2</sup>	< 300 <sup>1</sup> , < 360 <sup>2</sup>	< 0.50	< 0.50	< 1.0	< 0.50	< 0.50	< 1.0	< 1.0	< 1.0	Isopropylbenzene = 0.54	--	--	--
UST-1	7/7/2009	grab	< 50	110 <sup>b1, e2</sup>	< 250	< 0.50	< 0.50	< 0.5	--	--	--	--	< 0.5	--	--	--	
UST-2	7/7/2009	grab	390	150 <sup>b1, e2, e7</sup>	390 <sup>b1, e2, e7</sup>	< 0.50	< 0.50	< 0.5	--	--	--	--	< 0.5	--	--	--	
UST-3	7/7/2009	grab	960 <sup>b1, e2, e7</sup>	29,000 <sup>b1, e2, e7</sup>	17,000 <sup>b1, e2, e7</sup>	< 0.50	< 0.50	< 0.5	--	--	--	--	< 0.5	--	--	--	
UST-4	7/7/2009	grab	100	2,000 <sup>b1, e2, e7</sup>	1,700 <sup>b1, e2, e7</sup>	< 0.50	< 0.50	< 0.5	--	--	--	--	< 0.5	--	--	--	
MW-1	7/7/2009	purge/low flow	< 50	< 50	< 250	< 0.50	1.2	< 0.5	--	--	--	--	< 0.5	--	--	--	

NOTES:  
 < = Indicates not detected at or above the indicated laboratory detection limit  
 µg/L = Micrograms per liter  
 ND = Not detected; refer to the laboratory analytical report in Appendix A for detection limits  
 x = Laboratory flag indicating that the sample chromatogram does not resemble the typical diesel fuel pattern  
 y = Laboratory flag indicating that the reported concentration is DIPE which was detected within the TPH-g range  
 -- = Not analyzed  
 DIPE = Diisopropyl ether  
<sup>1</sup> = without silica gel cleanup  
<sup>2</sup> = with silica gel cleanup  
<sup>3</sup> = Limit is for Oil and Grease, which are heavy hydrocarbons  
<sup>4</sup> = Limit is for Total Identifiable Chlorinated Hydrocarbons (TICHH) which is the sum of the concentrations of all detected chlorinated hydrocarbons  
<sup>5</sup> = Limit is for phenolic compounds  
 b1 = aqueous sample that contains greater than 1% vol% sediment  
 b6 = lighter than water immiscible sheen/product is present  
 d7 = strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram  
 e1 = unmodified or weakly modified diesel is significant  
 e2 = diesel range compounds are significant; no recognizable pattern  
 e3 = aged diesel is significant  
 e7 = oil range compounds are significant  
 Total Petroleum Hydrocarbons (TPH) quantified as gasoline (TPH-g), diesel fuel (TPH-d), and motor oil (TPH-mo) analyzed by EPA Method 8015; TPH-d and TPH-mo analyzed with silica gel cleanup  
 Volatile Organic Compounds (VOCs) analyzed by EPA Method 8260B. TCE = Trichloroethylene, cis-1,2-DCE = cis-1,2 Dichloroethylene, sec-But = sec-Butylbenzene, DIPE = Diisopropyl ether  
 Semi-Volatile Organic Compounds (SVOCs) analyzed by EPA Method 8270C. 2-Methylnaphthalene (2-Met), Pentachlorophenol (Pent)

Table 4.  
**METALS IN GROUNDWATER**  
**ALDERS PROPERTY**  
**5812 Hollis Street**  
**Emeryville, California**

Sample ID	Date Sampled	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mo	Ni	Se	Ag	Tl	V	Zn	Hg
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TR-1-GW	1/23/2008	< 0.010	< 0.0050	0.076	< 0.0050	< 0.0050	< 0.0050	0.014	< 0.0050	< 0.015	0.024	0.034	0.010	< 0.0050	< 0.0050	0.026	< 0.0050	< 0.00020
TR-3-GW	1/23/2008	< 0.010	0.0075	1.7	< 0.0050	< 0.0050	< 0.0050	0.025	0.037	< 0.015	< 0.010	0.010	0.018	< 0.0050	< 0.0050	0.032	0.034	< 0.00020
TR-4-GW	1/23/2008	< 0.010	< 0.0050	0.31	< 0.0050	< 0.0050	< 0.0050	0.019	< 0.0050	< 0.015	< 0.010	0.049	< 0.010	< 0.0050	< 0.0050	0.029	< 0.0050	< 0.00020
TR-5-GW	1/23/2008	< 0.010	< 0.0050	0.23	< 0.0050	< 0.0050	< 0.0050	0.0086	< 0.0050	< 0.015	< 0.010	0.015	< 0.010	< 0.0050	< 0.0050	0.016	< 0.0050	< 0.00020
TR-6-GW	1/23/2008	< 0.010	< 0.0050	0.058	< 0.0050	< 0.0050	< 0.0050	0.011	< 0.0050	< 0.015	< 0.010	0.020	< 0.010	< 0.0050	< 0.0050	0.020	< 0.0050	< 0.00020
TR-7-GW	1/24/2008	0.021	0.0064	0.29	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.015	0.015	0.045	< 0.010	< 0.0050	< 0.0050	0.026	0.0054	< 0.00020

Notes:

< = Not detected at or above the indicated laboratory detection limit

mg/L = Milligrams per liter

Sb = Antimony, As = Arsenic, Ba = Barium, Be = Beryllium, Cd = Cadmium, Cr = Chromium, Co = Cobalt, Cu = Copper, Pb = Lead, Mo = Molybdenum, Ni = Nickel, Se = Selenium, Ag = Silver, Tl = Thallium, V = Vanadium, Zn = Zinc, Hg = Mercury

**Table 3**  
**Confirmation Influent Groundwater Samples**  
**Analytical Results for Petroleum Hydrocarbons**  
**EmeryStation Greenway**  
**5812 Hollis Street**  
**Emeryville, California**  
**Project: 730482302**

Sample ID	Date Sampled	TPHg	TPHmo	TPHd	Benzene	ethylbenzene	Toluene	Total Xylenes	MTBE
		µg/L							
DW-1	02/08/11	63	--	97	< 0.5	< 0.5	1.4	2.0	< 0.5
INF-001	02/28/11	< 51	51 J B	< 52	< 0.5	< 0.5	0.25 J	< 1.0	< 0.5
INF-001	03/07/11	< 51	< 100	24 J B	< 0.5	< 0.5	< 0.5	< 1.0	< 0.5
DW-1	04/26/11	< 50	< 250	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Notes:

All results are reported in microgram per liter (µg/L)

TPHg - Total Petroleum Hydrocarbons as Gasoline, EPA Method 8015M

TPHmo - Total Petroleum Hydrocarbons as Moto Oil Range (C10-C23), EPA Method 8015M

TPHd - Total Petroleum Hydrocarbons as Diesel Range (C10-C23), EPA Method 8015M

MTBE - Metyl Tertiary Butyl

-- Not Analyzed

J - J-flag by laboratroy, indicating estimated concentration is below reporting limit but above method detection limit

B - compound was found in the blank and sample

< 0.5 - Analyte was not detected above the laboratory reporting limit (0.5 µg/L)

ND - Not detected at or above the laboratory reporting limit

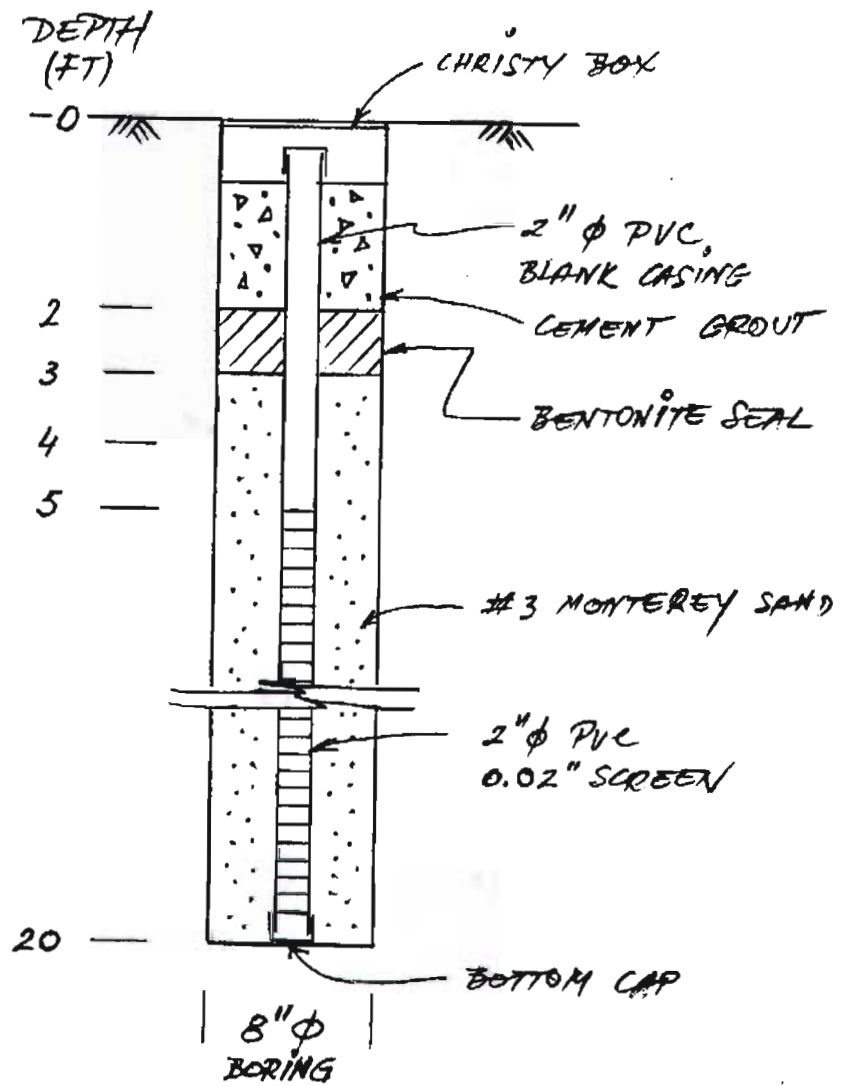





FIGURE 3 - WELL DIAGRAM

PROJECT No.: E930701	BORING No.: B-1	DATE: 6/17/93
PROJECT NAME: Monitoring Well at Hydraulic Electro S.		page 1 of 1
LOCATION: 5812 Hollis Street, Emeryville		GWL DEPTH: 12' ATD
DRILL METHOD: 8 - in Auger, 140-lb Hammer		HOLE DIAMETER: 8.5 in
DRILL CONTRACTOR: Holt Drilling Co.		DRILLER: Rick

DEPTH (ft.)	SAMPLE TYPE & NUMBER	BLOW/FT.	SPT	MATERIAL DESCRIPTION	USCS SYMBOL	OVA. READING (ppm)	WELL CONSTRUCTION
0				4" asphalt pavement over 2" of base material (gravel)			TOC EL 21.25 (MSL)
2						1.5 at 6"	CEMENT GROUT BENTONITE SEAL
4						0 at 3'	
6	S-1	3 8 10	10	Clay fill, light to dk brown some gray-green soil also stiff, moist	CL	0 at 5'	5' 48Hr
8						0 at 8'	#3 MONTEREY SAND
10	S-2	5 10 15	15	Same fill as before, more gravel, stiff to v. stiff	GC	2.3 at 10'	0.02" SCREEN
12						0 at 13'	ATD
14							
16	S-3	14 7	9	Stiff, light brown to grayish-brown, silty clay	CL	0 at 15'	
18							
20	S-4	28 24 17	26	V. Stiff clay, light brown to grayish-brown, silty clay.	CL	0 at 20'	20' BOTTOM OF WELL
22							
24				BOH = 21.5 feet			

NOTES :

-  2.5" x 6" brass tube sample
-  SPT sample
-  Grab sample

**SUMMIT ENGINEERING**

6045 Shirley Drive  
Oakland, CA 94611

Boring location: See Site Plan, Figure 2	Logged by: T. Campitelli
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Date started: 7/6/09	Date finished: 7/6/09
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Drilling method: Geoprobe
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Hammer weight/drop: N/A	Hammer type: N/A
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Sampler: Continuous
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DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
							Surface Conditions:
1							Asphaltic Concrete (AC)
2							SAND and GRAVEL (SP)
3						SP	red-brown, wet, sub-rounded gravel, no odor
4							
5							wet
6							
7						ML	SANDY SILT (ML) brown, medium dense, moist, no odor GW (07/07/09)
8	UST-01 8-8.5						
9						CL	CLAY (CL) gray-brown, soft, moist, weak fuel odor and greenish staining at 8 to 9 feet
10							
11							
12							
13							
14							
15	UST-01 15-15.5					CH	SILTY CLAY (CH) red-brown, stiff, moist, no odor
16							
17							
18							
19						CL	SANDY CLAY (CL) red-brown, stiff, wet, weak solvent/ fuel odor
20	UST-01 19.5-20						
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

TEST ENVIRONMENTAL 482302.GPJ TR.GDT 8/6/09

Boring terminated at a depth of 20 feet.  
Boring backfilled with cement grout.  
Groundwater not encountered during drilling

<b>Treadwell &amp; Rollo</b>	
Project No.: 4823.02	Figure: A-1



Boring location: See Site Plan, Figure 2	Logged by: T Campitelli
Date started: 7/7/09	Date finished: 7/7/09
Drilling method: Geoprobe	
Hammer weight/drop: N/A	Hammer type: N/A

Sampler: Continuous

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
Surface Conditions:							
1						CL	CLAY (CL) gray, medium dense, dry, no odor [FILL]
2						CL	
3							
4						SP	CLAYEY SAND (SP) brown, medium dense, moist, no odor
5							
6						CH	CLAY (CH) gray, soft, wet, no dor
7							
8							SANDY CLAY (CL) brown, medium stiff, moist, no odor
9							
10						CL	
11							
12							
13							
14						CH	CLAY (CH) gray, medium stiff, moist, no odor
15							
16						CL	SANDY CLAY (CL) brown, stiff, moist, no odor
17							
18						SP	SANDY GRAVEL (SP) brown, dense, saturated, no odor
19							
20	UST-01-DEEP 20-20.5					CH	CLAY (CH) brown, stiff, moist, no odor
21							
22							
23						CL	GRAVELLY CLAY (CL) brown, very stiff, moist, chert fragments, no odor
24	UST-01-DEEP 24-25					SP	SAND (SP) brown, medium dense, saturated, no odor
25							
26							
27							
28							
29							
30							

TEST ENVIRONMENTAL 482302.GPJ TR.GDT 8/4/09

Boring terminated at a depth of 25 feet  
 Boring backfilled with cement grout.  
 Groundwater encountered at 15 feet bgs during drilling

<b>Treadwell &amp; Rollo</b>	
Project No.: 4823.02	Figure: A-2

Boring location: See Site Plan, Figure 2 Logged by T. Campitelli

Date started: 7/6/09 Date finished: 7/6/09

Drilling method: Geoprobe

Hammer weight/drop: N/A Hammer type: N/A

Sampler: Continuous

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
Surface Conditions:							
1						Asphaltic Concrete (AC)	
2						SAND (SP)	
3						dark brown, loose, dry, no odor [FILL]	
4							
5						▽	
6						GRAVEL (GP)	
7						gray, medium dense, saturated, no odor [FILL]	
8							
9							
10							
11							
12	UST-02 11.5-12					CLAY (CL)	
13						light brown, stiff, dry, no odor	
14							
15							
16							
17							
18							
19							
20	UST-02 19.5-20					GRAVELLY SAND (SP)	
21						dark brown, medium dense, wet, no odor	
22							
23						▽ GW (07/07/09)	
24						Groundwater depth measured in hydropunch sampler	
25						SAND (SP)	
26						red-brown, medium dense, saturated, no odor	
27							
28	UST-02 27.5-28					CLAY (CL)	
29						light brown, medium dense, wet, gray mottling with black weathered clasts, no odor	
30							

TEST ENVIRONMENTAL 482302.GPJ TR.GDT 8/4/09

Boring terminated at a depth of 30 feet.  
Boring backfilled with cement grout.  
Groundwater encountered at 5 feet bgs during drilling

**Treadwell & Rollo**

Project No. 4823.02	Figure: A-3
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PROJECT:

**ALDERS PROPERTY**  
Emeryville, California

**Log of Boring UST-03**

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: T. Campitelli

Date started: 7/6/09

Date finished: 7/6/09

Drilling method: Geoprobe

Hammer weight/drop: N/A

Hammer type: N/A

Sampler: Continuous

DEPTH (feet)	SAMPLES				OWM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
1							Surface Conditions:
2							SANDY CLAY (CL) brown, loose, moist, no odor
3							
4						CL	
5	UST-03 4-4.5						
6							▼ GW (07/07/09)
7							
8	UST-03 7.5-8					ML	SILT (ML) brown, medium stiff, dry, no odor
9						CL	CLAY (CL) green, moist, weak fuel odor black staining
10							
11						CL	CLAY (CL) gray-brown, very stiff, moist, no odor
12							
13							
14	UST-03 13.5-14					GP	SANDY GRAVEL (GP) green, brown, medium dense, moist, subrounded gravel, strong fuel odor
15	UST-03 15-15.5					SP	SAND with GRAVEL (SP) brown, dense, moist, no odor
16							
17						CL	CLAY (CL) brown, stiff, moist, no odor
18						SP	SAND (SP) brown, loose, saturated, no odor
19						CL	CLAY (CL) brown, stiff, moist, no odor
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

TEST ENVIRONMENTAL 482302.GPJ TR.GDT 8/4/09

Boring terminated at a depth of 20 feet  
Boring backfilled with cement grout.  
Groundwater not encountered during drilling

**Treadwell&Rollo**

Project No. 4823.02

Figure:

A-4

<b>PROJECT:</b>	<b>ALDERS PROPERTY</b> Emeryville, California	<b>Log of Boring UST-04</b>	PAGE 1 OF 1
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Boring location: See Site Plan, Figure 2	Logged by: T. Campitelli
Date started: 7/6/09	Date finished: 7/6/09
Drilling method: Geoprobe	
Hammer weight/drop: N/A	Hammer type: N/A
Sampler: Continuous	

DEPTH (feet)	SAMPLES				OVM (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
	Sample Number	Sample	Blow Count	Recovery (inches)			
							Surface Conditions:
1							Asphaltic Concrete (AC)
2							SAND (SP)
3						SP	brown, loose, wet, no odor
4							
5							
6							CLAY (CL)
7						CL	light brown, medium stiff, moist, no odor GW (07/07/09)
8							
9	UST-04 8.5-9					CL	CLAY (CL) green, medium stiff, moist, moderate fuel odor
10	UST-04 10-10.5						
11							
12							GRAVELLY CLAY (CL) brown with gray mottling, very stiff, dry, no odor
13						CL	
14							
15	UST-04 15-15.5						SANDY CLAY (CL) brown, soft, wet, red weathered clasts, no odor
16						CL	
17							
18							
19						CH	CLAY (CH) brown, stiff, moist, no odor
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

TEST ENVIRONMENTAL 482302.GPJ TR.GDT 8/4/09

Boring terminated at a depth of 20 feet.  
Boring backfilled with cement grout.  
Groundwater not encountered during drilling

<b>Treadwell &amp; Rollo</b>	
Project No.: 4823.02	Figure: A-5

S:\Tragraphics-Oak-4800's-4823.02-January 2009-Figures\4823.02 Conceptual Subsurface Profile A-A' to C-C.dwg 1/12/10

