

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



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

November 21, 2008

Mr. Denis Brown  
Shell Oil Products US  
20945 S. Wilmington Ave.  
Carson, CA 90810-1039

Subject: Fuel Leak Case No. RO0002855 and Geotracker Global ID T0600115417, Shell #13-5693, 3600 Park Blvd., Oakland, CA 94610

Dear Mr. Brown:

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. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.swrcb.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Total petroleum hydrocarbons as gasoline remain in soil at concentrations up to 180 ppm.
- MTBE remains in shallow groundwater at concentrations up to 21 ppb.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

Donna L. Drogos, P.E.  
LOP and Toxics Program Manager

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

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

Mr. Leroy Griffin (w/enc)  
City of Oakland Fire Department  
250 Frank Ogawa Plaza  
Suite 3341  
Oakland, CA 94612

Mr. Peter Schaefer (w/o enc)  
Conestoga-Rovers & Associates  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

Ms. Ana Friel (w/o enc)  
Conestoga-Rovers & Associates  
19449 Riverside Drive, Suite 230  
Sonoma, CA 95476

Jerry Wickham (w/orig enc), D. Drogos (w/enc), File (w/enc)



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1131 Harbor Bay Parkway, Suite 250  
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**REMEDIAL ACTION COMPLETION CERTIFICATION**

November 21, 2008

Mr. Denis Brown  
Shell Oil Products US  
20945 S. Wilmington Ave.  
Carson, CA 90810-1039

Subject: Fuel Leak Case No. RO0002855 and Geotracker Global ID T0600115417, Shell #13-5693, 3600 Park Blvd., Oakland, CA 94610

Dear Mr. Brown:

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 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

  
Arlu Levi  
Director  
Alameda County Environmental Health

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

**I. AGENCY INFORMATION**

Date: September 10, 2008

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Senior Hazardous Materials Specialist

**II. CASE INFORMATION**

Site Facility Name: Shell #13-5689		
Site Facility Address: 3600 Park Blvd, Oakland, CA 94610		
RB Case No.: ---	Local Case No.: ---	LOP Case No.: RO0002855
URF Filing Date: March 5, 1998 and August 24, 2004	Geotracker ID: T0600115417	APN: 023-0476-021-01
Responsible Parties	Addresses	Phone Numbers
Denis Brown, Shell Oil Products US	20945 S Wilmington Ave Carson, CA 90810-1039	707-865-0251

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	10,000	Gasoline	---	---
2	10,000	Gasoline	---	---
3	10,000	Gasoline	---	---
Piping			Dispensers upgraded	2/1998 and 6/2004

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and Type of Release: Unknown. Soil staining and odor observed in soil beneath dispensers during dispenser upgrade.		
Site characterization complete? Yes	Date Approved By Oversight Agency: ----	
Monitoring wells installed? Yes	Number: 4	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 3.49'	Lowest Depth: 17.08'	Flow Direction: West to northwest
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: No water-producing wells reported within 1/2 mile.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Central Reservoir is approximately 3,000 feet southeast of site
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and City of Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	---	---	---
Piping	---	---	---
Free Product	---	---	---
Soil	5 cubic yards	Soil disposed at Forward Landfill in Manteca, CA	9/7/2004
Groundwater	12,000 gallons	Disposed off-site at Shell Martinez Refinery, Martinez, California	08/2004 to 09/2004

**MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP**  
 (Please see Attachments 1 through 5 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	2,703 <sup>1</sup>	180 <sup>2</sup>	1,330 <sup>3</sup>	<50 <sup>4</sup>
TPH (Diesel)	Not analyzed	Not analyzed	Not analyzed	Not analyzed
Oil and Grease	Not analyzed	Not analyzed	Not analyzed	Not analyzed
Benzene	1.3 <sup>1</sup>	<0.5 <sup>2</sup>	0.86 <sup>5</sup>	<0.5 <sup>4</sup>
Toluene	20 <sup>1</sup>	<0.5 <sup>2</sup>	<25 <sup>5</sup>	<1 <sup>4</sup>
Ethylbenzene	11 <sup>1</sup>	<0.5 <sup>2</sup>	<25 <sup>5</sup>	<1 <sup>4</sup>
Xylenes	78 <sup>1</sup>	<0.5 <sup>5</sup>	<50 <sup>5</sup>	<1 <sup>4</sup>
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	Not analyzed	Not analyzed	Not analyzed	Not analyzed
MTBE	49 <sup>1, a</sup>	0.48 <sup>5, b</sup>	3,800 <sup>5, c</sup>	21 <sup>4, d</sup>
Other (8240/8270)	Not analyzed	Not analyzed	Not analyzed	Not analyzed

a 49 ppm MTBE, TAME, ETBE, DIPE, TBA, EDB, and 1,2-DCA Not Analyzed.

b 0.48 ppm MTBE, <0.025 ppm TAME, <0.025 ppm ETBE, <0.05 ppm DIPE, 0.96 ppm TBA, <0.025 ppm EDB, and <0.025 ppm 1,2-DCA

c 3,800 ppb MTBE, <100 ppb TAME, <100 ppb ETBE, <100 ppb DIPE, 310 ppb TBA, <25 ppb EDB, and <25 ppb 1,2-DCA

d 21 ppb MTBE, <2 ppb TAME, <2 ppb ETBE, <2 ppb DIPE, <10 ppb TBA, <1 ppb EDB, and <0.5 ppb 1,2-DCA

1 Sampled February 20, 1998

2 Sampled August 20, 2004

3 Sampled January 24, 2006

4 Sampled April 8, 2008

5 Sampled January 3 & 4, 2006

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

In February 1998, secondary containment was added to the existing dispensers and turbine sumps. Soil staining and odor was observed beneath dispensers D-1 and D-2; no soil staining or odor was observed beneath dispensers D-3 and D-4. A total of three soil samples were collected beneath dispensers D-1 and D-2; no soil samples were collected beneath dispensers D-3 and D-4. One soil sample collected at a depth of 2 feet bgs beneath dispenser D-1 contained 930 ppm TPHg and 49 ppm MTBE. Soil samples collected at depths of 2 and 5 feet bgs beneath D-2 contained 2,703 and 180 ppm TPHg, respectively. Benzene was detected in all 3 of the soil samples at concentrations ranging from 1.0 to 1.3 ppm.

The fuel dispensers were upgraded again in June and July 2004. Soil samples were collected at depth of 4 to 5 feet bgs beneath each of the 4 dispensers. TPHg was detected in 2 of the 4 soil samples at a maximum concentration of 180 ppm. Benzene, toluene, ethylbenzene and MTBE were not detected in the 4 soil samples. Xylenes were detected in one soil sample at a concentration of 2.3 ppm.

On January 3 and 4, 2006, eight soil borings (SB-1 to SB-8) were advanced for the collection of soil and grab groundwater samples. TPHg was detected in 4 of 40 soil samples at a maximum concentration of 150 ppm. MTBE was detected in 22 of 40 soil samples at a maximum concentration of 0.65 ppm. TBA was detected in 13 of 40 soil samples at a maximum concentration of 0.96 ppm. BTEX and other fuel oxygenates were not detected in any of the soil samples. MTBE and TBA were detected in the grab groundwater samples at concentrations up to 3,800 ppb and 310 ppb, respectively. The highest concentrations of MTBE and TBA were detected in depth-discrete grab groundwater samples collected from soil boring SB-8. Four of the soil borings (SB-2, SB-4, SB-7, and SB-8) were converted into monitoring wells.

Quarterly groundwater sampling was conducted in the four monitoring wells from January 24, 2006 through April 8, 2008. The concentration of TPHg in groundwater from MW-4, which is the well nearest the dispensers, decreased from 1,330 ppb on January 24, 2008 to less than 50 ppb on April 8, 2008. The concentration of MTBE detected in groundwater from downgradient well MW-8 decreased from 592 ppb on January 24, 2008 to 19 ppb on April 8, 2008.

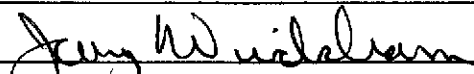
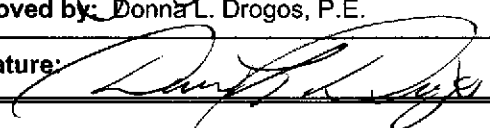
**IV. CLOSURE**

<b>Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes</b>		
<b>Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes</b>		
<b>Does corrective action protect public health for current land use?</b> 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.		
<b>Site Management Requirements:</b> None		
<b>Should corrective action be reviewed if land use changes?</b> No		
<b>Was a deed restriction or deed notification filed?</b> No		<b>Date Recorded:</b> --
<b>Monitoring Wells Decommissioned:</b> No	<b>Number Decommissioned:</b> 0	<b>Number Retained:</b> 4
<b>List Enforcement Actions Taken:</b> None		
<b>List Enforcement Actions Rescinded:</b> --		

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

<p><b>Considerations and/or Variances:</b></p> <p>No soil vapor sampling was conducted for site. Based on the apparent absence of BTEX in soil and groundwater samples, soil vapor sampling does not appear to be necessary.</p> <p><b>Conclusion:</b></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 is necessary. ACEH staff recommend case closure for this site.</p>
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**VI. LOCAL AGENCY REPRESENTATIVE DATA**

<b>Prepared by:</b> Jerry Wickham	<b>Title:</b> Senior Hazardous Materials Specialist
<b>Signature:</b> 	<b>Date:</b> 09/10/08
<b>Approved by:</b> Donna L. Drogos, P.E.	<b>Title:</b> Supervising Hazardous Materials Specialist
<b>Signature:</b> 	<b>Date:</b> 09/10/08

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**

<b>Regional Board Staff Name:</b> Cherie McCaulou	<b>Title:</b> Engineering Geologist
<b>RB Response:</b> Concur, based solely upon information contained in this case closure summary.	<b>Date Submitted to RB:</b> 9/10/08
<b>Signature:</b> <i>Cherie McCaulou</i>	<b>Date:</b> 9/12/08

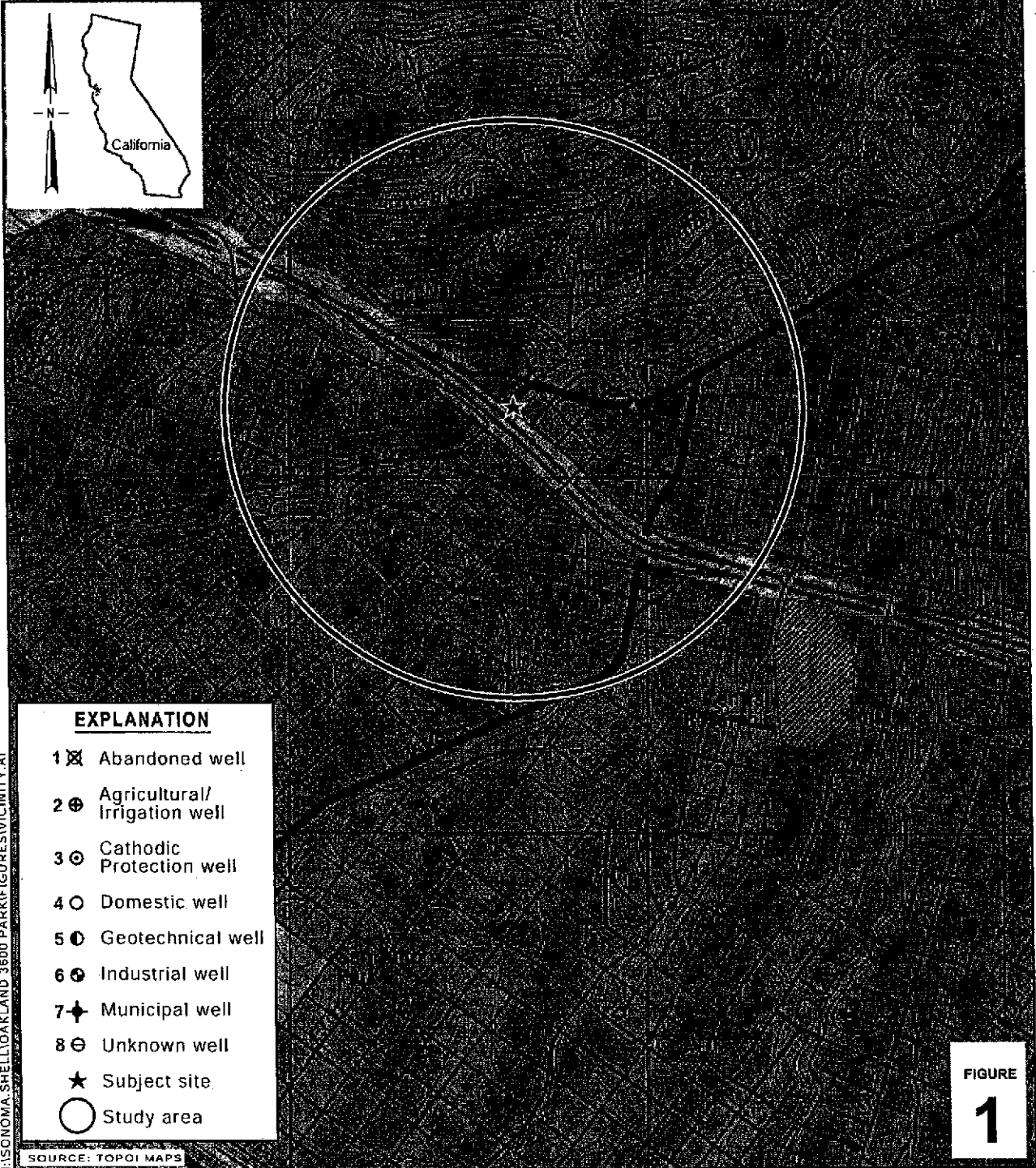
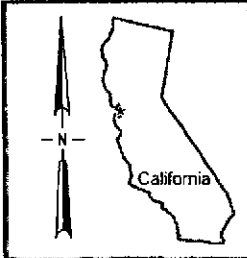
**VIII. MONITORING WELL DECOMMISSIONING**

<b>Date Requested by ACEH:</b> 09/18/08	<b>Date of Well Decommissioning Report:</b> 11/18/08	
<b>All Monitoring Wells Decommissioned</b> <input checked="" type="radio"/> Yes <input type="radio"/> No	<b>Number Decommissioned:</b> 4	<b>Number Retained:</b> 0
<b>Reason Wells Retained:</b> N/A		
<b>Additional requirements for submittal of groundwater data from retained wells:</b> None		
<b>ACEH Concurrence - Signature:</b> <i>Jerry W. Dickman</i>		<b>Date:</b> 11/21/08

**Attachments:**

1. Site Vicinity Map (1 page)
2. Groundwater Contour and Concentration Map and Site Plan with Soil and Groundwater Concentrations (2 pages)
3. Well and Boring Data and Groundwater Elevation Contour Map (2 pages)
4. Soil Analytical Data (3 pages)
5. Groundwater Analytical Data (4 pages)
6. Boring Logs (11 pages)

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.

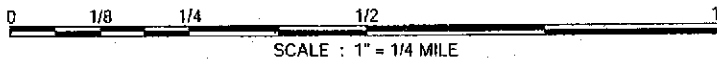


- EXPLANATION**
- 1 ☒ Abandoned well
  - 2 ⊕ Agricultural/Irrigation well
  - 3 ⊙ Cathodic Protection well
  - 4 ○ Domestic well
  - 5 ● Geotechnical well
  - 6 ⊕ Industrial well
  - 7 + Municipal well
  - 8 ⊖ Unknown well
  - ★ Subject site
  - Study area

ISONOMA SHELL/OAKLAND 3600 PARK/FIGURES/VICINITY.A1

SOURCE: TOPOI MAPS

FIGURE  
**1**



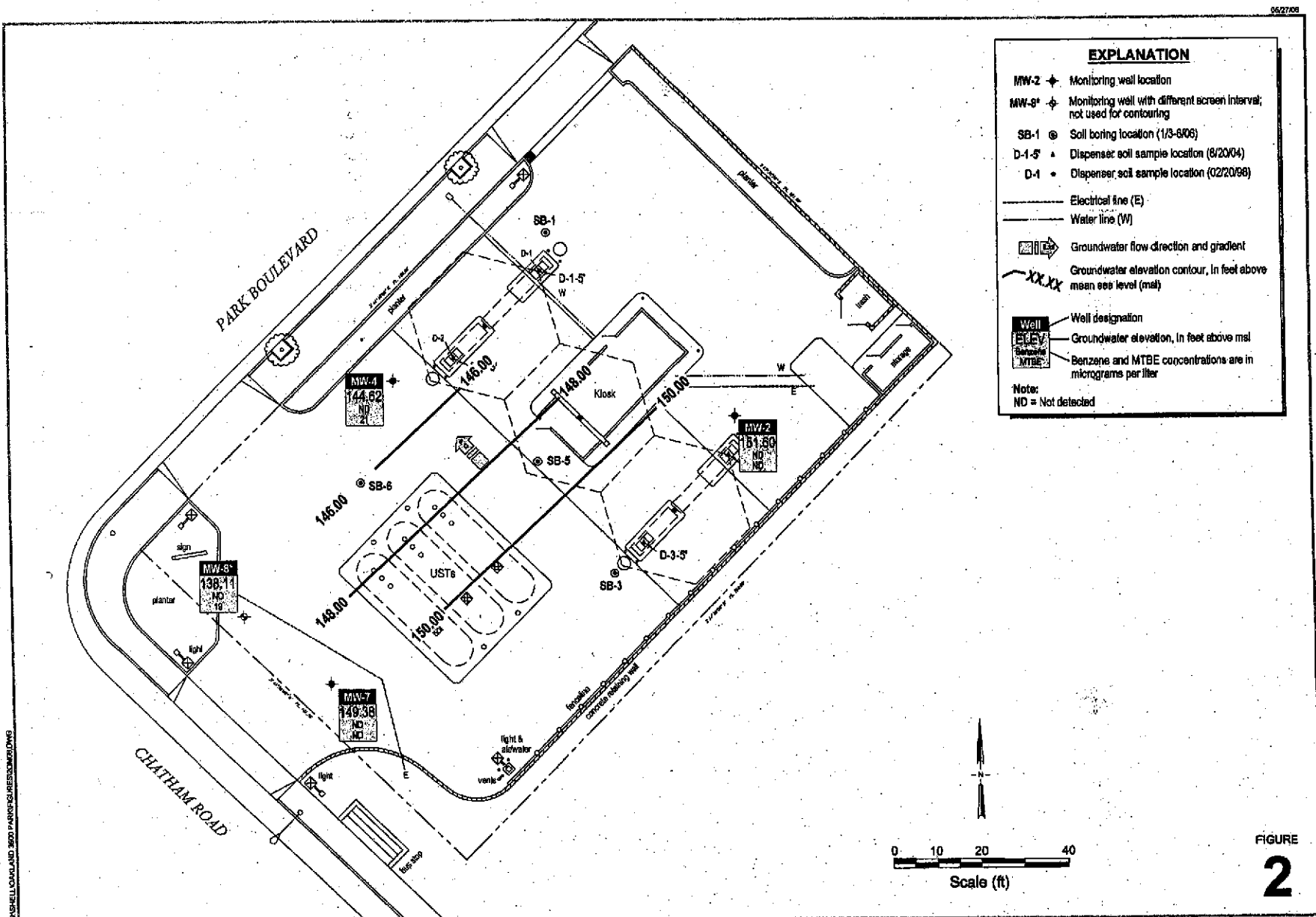
**Shell-branded Service Station**  
3600 Park Boulevard  
Oakland, California



**CONESTOGA ROVERS  
& ASSOCIATES**

**Vicinity Map**

**ATTACHMENT 1**



06/27/08

**EXPLANATION**

- MW-2 + Monitoring well location
- MW-3 + Monitoring well with different screen interval; not used for contouring
- SB-1 ⊙ Soil boring location (1/3-8/05)
- D-1-5 + Dispenser soil sample location (8/20/04)
- D-1 • Dispenser soil sample location (02/20/96)
- Electrical line (E)
- Water line (W)
- Groundwater flow direction and gradient
- XX.XX— Groundwater elevation contour, in feet above mean sea level (msl)
- Well designation
- Groundwater elevation, in feet above msl
- Benzene and MTBE concentrations are in micrograms per liter

Note:  
ND = Not detected

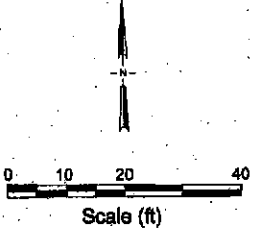


FIGURE  
**2**

Groundwater Contour and  
Chemical Concentration Map



Shell-branded Service Station

3600 Park Boulevard  
Oakland, California

April 8, 2008

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**SB-4: SOIL (ppm)**

Depth	TPHg	Benz.	MTBE
5	<1.0	<0.0050	0.083
10	<1.0	<0.0050	<0.0050
15	<1.0	<0.0050	0.24
20	<1.0	<0.0050	0.33
25	<1.0	<0.0050	0.48
30	<1.0	<0.0050	0.075
35	<1.0	<0.0050	0.19
39.5	<1.0	<0.0050	<0.0050

**SB-4: WATER (ppb)**

25	<50	<0.50	<0.50
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**SB-4: SOIL (ppm)**

Depth	TPHg	Benz.	MTBE
5	190	<0.50	<0.50
10	8.4	<0.025	<0.025
15	<1.0	<0.0050	0.13
20	<1.0	<0.0050	0.0653
25	100	<0.50	<0.50

**SB-4: WATER (ppb)**

24	<50	<0.50	3.0
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**SB-1: SOIL (ppm)**

Depth	TPHg	Benz.	MTBE
5	1.1	<0.0050	0.25
10	<2.5	<0.012	0.33
15	<1.0	<0.0050	0.33
20	<1.0	<0.0050	0.029
25	<1.0	<0.0050	<0.0050

**SB-1: WATER (ppb)**

25	<50	0.88	22
----	-----	------	----

PARK BOULEVARD

**EXPLANATION**

MW-2 ◆ Monitoring well location  
 SB-1 ⊙ Soil boring location (1/3-8/06)  
 D-1-5' ▲ Dispenser soil sample location (8/20/04)  
 D-1 ● Dispenser soil sample location (02/20/98)

SB-1: SOIL (ppm)			
Depth	TPHg	Benz.	MTBE

Soil Boring ID  
 Soil sample depth and TPHg, benzene, and MTBE concentrations in soil, in ppm

SB-1: WATER (ppb)			
Depth	TPHg	Benz.	MTBE

Soil Boring ID  
 Soil sample depth and TPHg, benzene, and MTBE concentrations in groundwater, in ppb

----- Electrical line (E)  
 \_\_\_\_\_ Water line (W)

**SB-8: SOIL (ppm)**

Depth	TPHg	Benz.	MTBE
5	<1.0	<0.0050	0.0654
10	<1.0	<0.0050	<0.0050
15	<1.0	<0.0050	<0.0050
20	<1.0	<0.0050	0.45
25	<1.0	<0.0050	0.54
30	<1.0	<0.0050	0.42
35	<1.0	<0.0050	0.44

**SB-8: WATER (ppb)**

32	<2,500	<25	3,460
50	<2,500	<25	3,000

**SB-7: SOIL (ppm)**

Depth	TPHg	Benz.	MTBE
5	<1.0	<0.0050	<0.0050
10	<1.0	<0.0050	<0.0050
15	<1.0	<0.0050	0.028
20	<1.0	<0.0050	0.038
25	<1.0	<0.0050	0.030
30	<1.0	<0.0050	<0.0050
35	<1.0	<0.0050	<0.0050

**SB-7: WATER (ppb)**

29	<50	<0.50	8.9
----	-----	-------	-----

**SB-3: SOIL (ppm)**

Depth	TPHg	Benz.	MTBE
3	<1.0	<0.0050	0.011
10	<1.0	<0.0050	0.012

**SB-3: WATER (ppb)**

10.5	<50	<0.50	8.9
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**SB-3: SOIL (ppm)**

Depth	TPHg	Benz.	MTBE
5	<1.0	<0.0050	<0.0050
10	<1.0	<0.0050	<0.0050

**SB-3: WATER (ppb)**

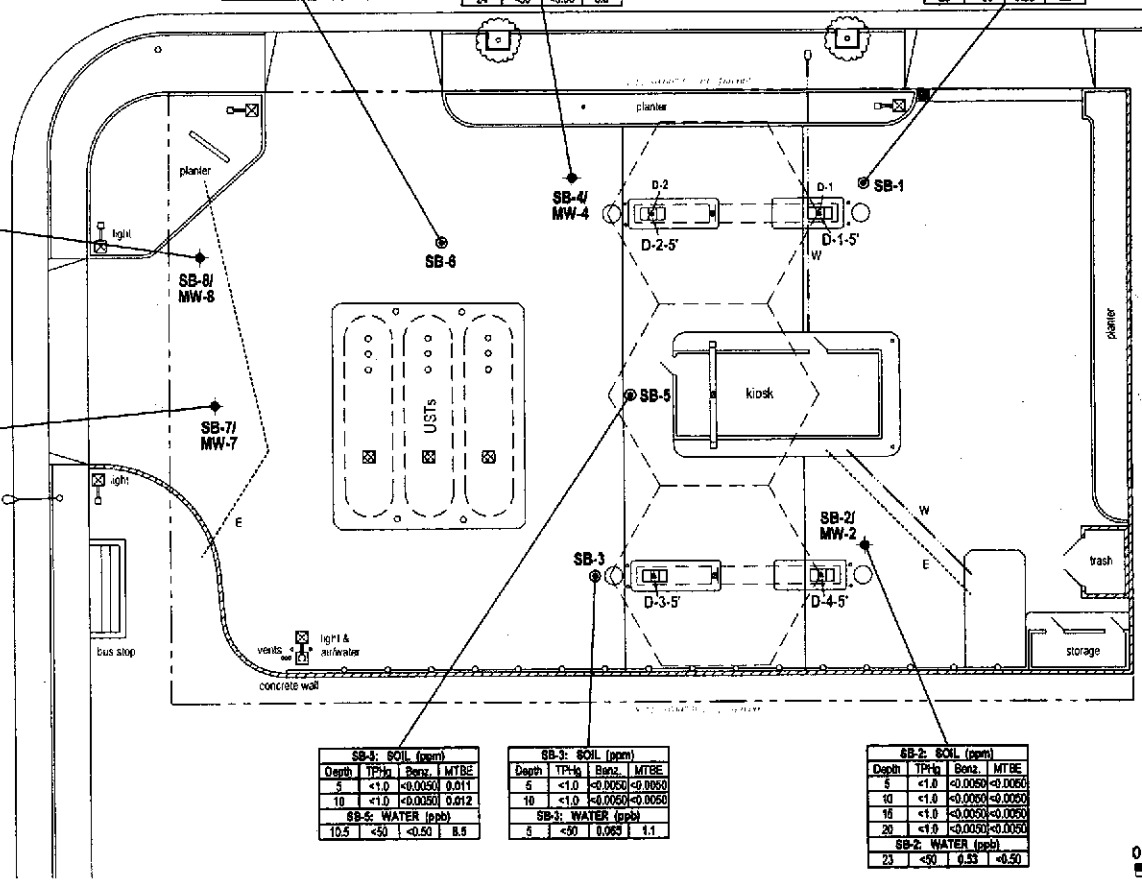
3	<50	0.953	1.1
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**SB-2: SOIL (ppm)**

Depth	TPHg	Benz.	MTBE
5	<1.0	<0.0050	<0.0050
10	<1.0	<0.0050	<0.0050
15	<1.0	<0.0050	<0.0050
20	<1.0	<0.0050	<0.0050

**SB-2: WATER (ppb)**

23	<50	0.53	<0.50
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CHATHAM ROAD



FIGURE 2

Site Plan with Soil and Groundwater Chemical Concentrations

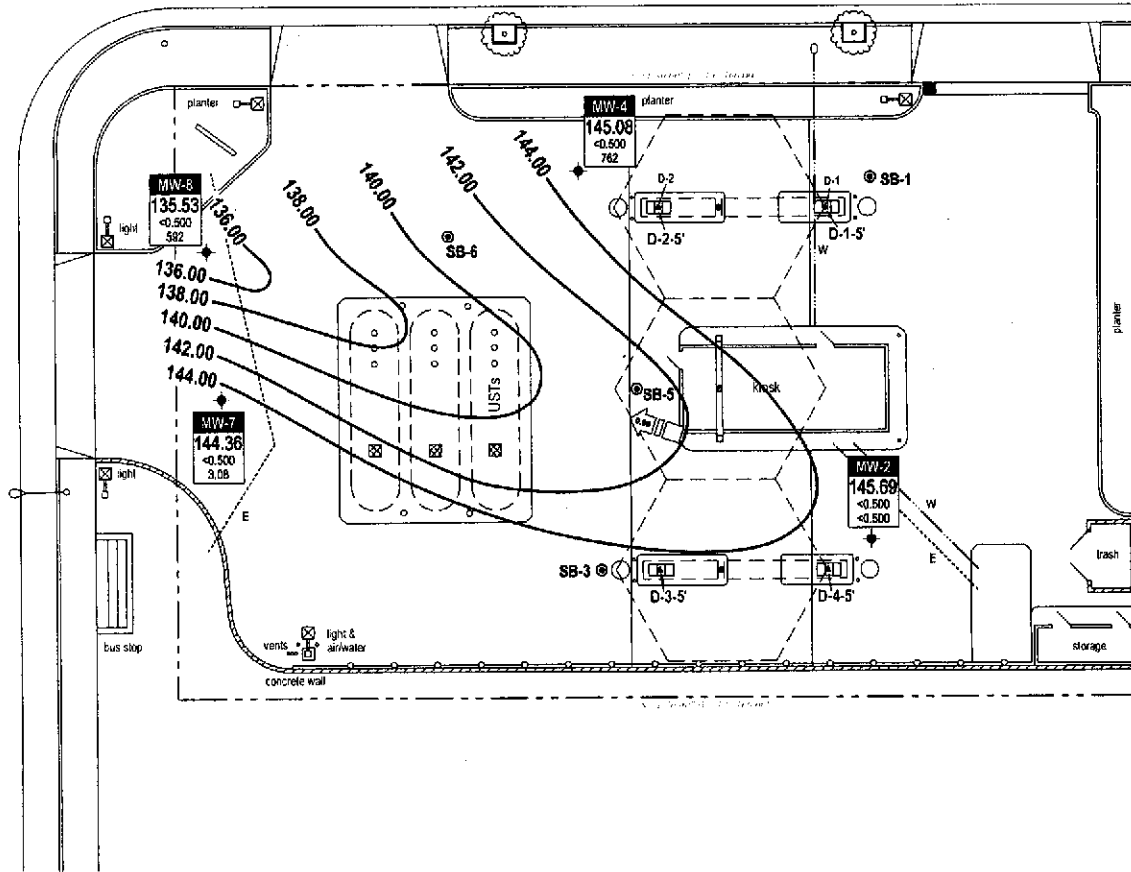


C A M B R I A

Shell-branded Service Station  
 3600 Park Boulevard  
 Oakland, California  
 Incident No. 98995747

CHATHAM ROAD

PARK BOULEVARD



**EXPLANATION**

- MW-2 ◆ Monitoring well location
- SB-1 ⊙ Soil boring location (1/3-6/06)
- D-1-5' ▲ Dispenser soil sample location (8/20/04)
- D-1 • Dispenser soil sample location (02/20/88)
- → Groundwater flow direction and gradient (ft/ft)
- Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred
- Well designation
- ELEV Groundwater elevation, in feet above msl
- Benzene MTBE Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260
- Electrical line (E)
- \_\_\_\_\_ Water line (W)

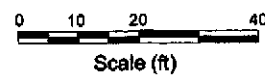


FIGURE 3

Groundwater Elevation Contour Map

January 24, 2006



C A M B R I A

Shell-branded Service Station

3600 Park Boulevard  
Oakland, California  
Incident No. 99995747

# CAMBRIA

**Table 1. Well and Boring Data, Shell-branded Service Station, 3600 Park Boulevard, Oakland, California**

Name	Type	Boring	TOC	Total	Soil Sampling	First Encountered Groundwater	Screen	Screen Depth (fbg)		
		Date	Elev (ft msl)	Depth (fbg)	Interval (ft)	Depth (fbg)	Elev (ft msl)	Diam. (in)	Top	Bottom
SB-1	3" Geoprobe boring	1/4/2006	-	28	5	25	-	-	-	-
MW-2	3" Geoprobe boring converted to 4" monitoring well	1/3/2006	156.92	30	5	24	145.69	4	20	30
SB-3	3" Geoprobe boring	1/3/2006	-	12	5	8 (a)	-	-	-	-
MW-4	3" Geoprobe boring converted to 4" monitoring well	1/3/2006	155.00	30	5	24	145.08	4	20	30
SB-5	3" Geoprobe boring	1/3/2006	-	12	5	8 (a)	-	-	-	-
SB-6	3" Geoprobe boring	1/3/2006	-	40	5	39	-	-	-	-
MW-7	3" Geoprobe boring converted to 4" monitoring well	1/4/2006	154.00	40	5	35	144.36	4	28	38
MW-8	3" Geoprobe boring converted to 4" monitoring well	1/4/2006	152.61	50	5	33	135.53	4	40	50

Abbreviations:

ft msl = Feet referenced to mean sea level

TOC = Top of casing

fbg = feet below grade

a = perched water zone, possibly the result of leaking water pipe on property

# CAMBRIA

**Table 2. Historical Soil Analytical Results - Shell-branded Service Station, 3600 Park Blvd., Oakland, California,**

Sample ID	Depth (fbg)	Date Sampled	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB
← (ppm) parts per million →														
D-1	2	2/20/1998	930	1.0	20	11	78	—	49	—	—	—	—	—
D-2	2	2/20/1998	2,703	1.2	1.1	1.9	14	—	4.5	—	—	—	—	—
D-2	5	2/20/1998	180	1.3	0.46	1.7	4.0	—	1.6	—	—	—	—	—
D-1-5'	5	8/20/2004	180	<0.50	<0.50	<0.50	2.3	—	<0.50	—	—	—	—	—
D-2-5'	5	8/20/2004	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	—	<0.0050	—	—	—	—	—
D-3-5'	5	8/20/2004	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	—	<0.0050	—	—	—	—	—
D-4-5'	5	8/20/2004	30	<0.0050	<0.0050	<0.0050	<0.0050	—	<0.0050	—	—	—	—	—
SB-1-5	5	1/3/2006	1.1	<0.0050	<0.0050	<0.0050	<0.0050	0.27	0.25	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-1-10	10	1/3/2006	<2.5	<0.012	<0.012	<0.012	<0.012	0.37	0.33	<0.025	<0.012	<0.012	<0.012	<0.012
SB-1-15	15	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	0.36	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-1-20	20	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	0.023	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-1-25	25	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-2-5	5	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-2-10	10	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-2-15	15	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-2-20	20	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-3-5	5	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-3-10	10	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-4-5	5	1/3/2006	150	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
SB-4-10	10	1/3/2006	5.4	<0.025	<0.025	<0.025	<0.025	0.092	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025

**Table 2. Historical Soil Analytical Results - Shell-branded Service Station, 3600 Park Blvd., Oakland, California,**

Sample ID	Depth (fbg)	Date Sampled	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB
(ppm) parts per million														
SB-4-15	15	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.030	0.13	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-4-20	20	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	0.0053	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-4-25	25	1/3/2006	100	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50
SB-5-5	5	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	0.011	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-5-10	10	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	0.012	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-6-5	5	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.96	0.0085	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-6-10	10	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-6-15	15	1/3/2006	<5.0	<0.025	<0.025	<0.025	<0.025	<0.050	0.24	<0.050	<0.025	<0.025	<0.025	<0.025
SB-6-20	20	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.032	0.33	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-6-25	25	1/3/2006	<5.0	<0.025	<0.025	<0.025	<0.025	<0.050	0.48	<0.050	<0.025	<0.025	<0.025	<0.025
SB-6-30	30	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	0.075	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-6-35	35	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.018	0.19	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-6-39.5	39.5	1/3/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-7-5	5	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-7-10	10	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-7-15	15	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.32	0.026	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-7-20	20	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	0.035	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-7-25	25	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.032	0.030	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-7-30	30	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-7-35	35	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050



**Table 2. Historical Soil Analytical Results - Shell-branded Service Station, 3600 Park Blvd., Oakland, California,**

Sample ID	Depth (fbg)	Date Sampled	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB
← (ppm) parts per million →														
SB-8-5	5	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>0.0054</b>	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-8-10	10	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-8-15	15	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-8-20	20	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.17</b>	<b>0.65<sup>a</sup></b>	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-8-25	25	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.017</b>	<b>0.54<sup>a</sup></b>	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-8-30	30	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.034</b>	<b>0.42<sup>a</sup></b>	<0.010	<0.0050	<0.0050	<0.0050	<0.0050
SB-8-35	35	1/4/2006	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.027</b>	<b>0.44<sup>a</sup></b>	<0.010	<0.0050	<0.0050	<0.0050	<0.0050

**Abbreviations and Notes:**

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to 2004, analyzed by EPA Method 8015

Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B; prior to 2004, analyzed by EPA Method 8020

TBA = Tert-butyl alcohol analyzed by EPA Method 8260B.

MTBE = methyl tertiary butyl ether analyzed by EPA Method 8260B; prior to 2004, analyzed by EPA Method 8020

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B.

ETBE = ethyl tert butyl ether analyzed by EPA Method 8260b.

TAME = Tert-amyl methyl ether analyzed by EPA Method 8260B.

1,2-DCA = 1,2-dichloroethane analyzed by EPA Method 8260B.

EDB = 1,2-dibromomethane analyzed by EPA Method 8260B.

fbg = Feet below grade

--- = Not analyzed

a = Estimated value. The concentration exceeded the calibration of analysis.

# CAMBRIA

**Table 3. Grab Groundwater Analytical Results - Shell-branded Service Station, 3600 Park Blvd., Oakland, California**

Sample	Date Sampled	Depth (fbg)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	TBA µg/L	MTBE µg/L	DIPE µg/L	ETBE µg/L	TAME µg/L	1,2-DCA µg/L	EDB µg/L
← (ppb) parts per billion →														
SB-1-25W	1/4/2006	25	<50	0.86	<0.50	<0.50	<1.0	<5.0	22	<2.0	<2.0	<2.0	<0.50	<0.50
SB-2-23W	1/3/2006	23	<50	0.53	<0.50	<0.50	<1.0	<5.0	<0.50	<2.0	<2.0	<2.0	<0.50	<0.50
SB-3-5W	1/3/2006	5.5	<50	0.065	<0.50	<0.50	<1.0	<5.0	1.1	<2.0	<2.0	<2.0	<0.50	<0.50
SB-4-24W	1/3/2006	24	<50	<0.50	<0.50	<0.50	<1.0	<5.0	3.0	<2.0	<2.0	<2.0	<0.50	<0.50
SB-5-10.5W	1/3/2006	5	<50	<0.50	<0.50	<0.50	<1.0	<5.0	8.5	<2.0	<2.0	<2.0	<0.50	<0.50
SB-6-25W	1/3/2006	25	<50	<0.50	<0.50	<0.50	<1.0	37	<0.50	<2.0	<2.0	<2.0	0.75	<0.50
SB-7-29W	1/4/2006	29	<50	<0.50	<0.50	<0.50	<1.0	<5.0	8.9	<2.0	<2.0	<2.0	<0.50	<0.50
SB-8-32W	1/4/2006	32	<2500	<25	<25	<25	<50	<250	3,400	<100	<100	<100	<25	<25
SB-8-50W	1/4/2006	50	<2500	<25	<25	<25	<50	310	3,800	<100	<100	<100	<25	<25

**Abbreviations and Notes:**

fbg = Feet below grade

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B

Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B

TBA = Tert-butyl alcohol analyzed by EPA Method 8260B.

MTBE = methyl tertiary butyl ether analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B.

ETBE = ethyl tert butyl ether analyzed by EPA Method 8260B.

TAME = Tert-amyl methyl ether analyzed by EPA Method 8260B.

1,2-DCA = 1,2-dichloroethane analyzed by EPA Method 8260B.

EDB = 1,2-dibromomethane analyzed by EPA Method 8260B.

**WELL CONCENTRATIONS**  
**Shell Service Station**  
**3600 Park Boulevard**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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MW-2	1/12/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	156.92	11.62	145.30
MW-2	1/19/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	156.92	8.72	148.20
MW-2	1/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	156.92	11.23	145.69
MW-2	4/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	2.53	<0.500	156.92	4.43	152.49
MW-2	7/11/2006	<50.0	<0.500	<0.500	<0.500	<1.50	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	156.92	4.48	152.44
MW-2	10/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	156.92	4.64	152.28
MW-2	1/19/2007	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.50	<0.50	156.92	4.73	152.19
MW-2	4/2/2007	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	156.92	4.70	152.22
MW-2	7/18/2007	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	156.92	4.77	152.15
MW-2	10/30/2007	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	156.92	5.31	151.61
MW-2	2/6/2008	53 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	156.92	5.37	151.55
MW-2	4/8/2008	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	156.92	5.32	151.60

MW-4	1/12/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	155.00	9.43	145.57
MW-4	1/19/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	155.00	9.45	145.55
MW-4	1/24/2006	1,330	<0.500	<0.500	<0.500	<0.500	762	<0.500	<0.500	1.72	<10.0	1.35	<0.500	155.00	9.92	145.08
MW-4	4/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	72.7	<0.500	<0.500	<0.500	<10.0	1.00	<0.500	155.00	9.33	145.67
MW-4	7/11/2006	<50.0	<0.500	<0.500	<0.500	<0.500	38.8	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	155.00	9.68	145.32
MW-4	10/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	39.8	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	155.00	10.28	144.72
MW-4	1/19/2007	<50	<0.50	<0.50	<0.50	<1.0	28	<1.0	<1.0	<1.0	<10	0.68	<0.50	155.00	10.26	144.74
MW-4	4/2/2007	<50 a	<0.50	<1.0	<1.0	<1.0	20	<2.0	<2.0	<2.0	<10	0.39 b	<1.0	155.00	9.93	145.07
MW-4	7/18/2007	<50 a	<0.50	<1.0	<1.0	<1.0	59	<2.0	<2.0	<2.0	<10	0.35 b	<1.0	155.00	10.34	144.66
MW-4	10/30/2007	<50 a	<0.50	<1.0	<1.0	<1.0	28	<2.0	<2.0	<2.0	<10	0.41 b	<1.0	155.00	10.68	144.32
MW-4	2/6/2008	57 a	<0.50	<1.0	<1.0	<1.0	72	<2.0	<2.0	<2.0	<10	<0.50	<1.0	155.00	10.27	144.73
MW-4	4/8/2008	<50 a	<0.50	<1.0	<1.0	<1.0	21	<2.0	<2.0	<2.0	<10	<0.50	<1.0	155.00	10.38	144.62

MW-7	1/12/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	154.00	5.97	148.03
MW-7	1/19/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	154.00	6.40	147.60

**WELL CONCENTRATIONS**  
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-7	1/24/2006	<50.0	<0.500	<0.500	<0.500	<0.500	3.08	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	154.00	9.64	144.36
MW-7	4/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	0.690	<0.500	<0.500	<0.500	<10.0	2.32	<0.500	154.00	3.49	150.51
MW-7	7/11/2006	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	154.00	3.96	150.04
MW-7	10/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	154.00	5.11	148.89
MW-7	1/19/2007	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<1.0	<1.0	<1.0	<10	<0.50	<0.50	154.00	4.62	149.38
MW-7	4/2/2007	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	154.00	4.23	149.77
MW-7	7/18/2007	<50 a	<0.50	<1.0	<1.0	<1.0	0.31 b	<2.0	<2.0	<2.0	<10	<0.50	<1.0	154.00	5.08	148.92
MW-7	10/30/2007	<50 a	<0.50	<1.0	<1.0	<1.0	0.84 b	<2.0	<2.0	<2.0	<10	<0.50	<1.0	154.00	5.58	148.42
MW-7	2/6/2008	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	154.00	5.15	148.85
MW-7	4/8/2008	<50 a	<0.50	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<10	<0.50	<1.0	154.00	4.62	149.38
MW-8	1/12/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	152.61	16.84	135.77
MW-8	1/19/2006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	152.61	16.00	136.61
MW-8	1/24/2006	1,120	<0.500	<0.500	<0.500	<0.500	592	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	152.61	17.08	135.53
MW-8	4/27/2006	<50.0	<0.500	<0.500	<0.500	<0.500	26.4	<0.500	<0.500	<0.500	<10.0	2.32	<0.500	152.61	12.97	139.64
MW-8	7/11/2006	<50.0	<0.500	<0.500	<0.500	<0.500	16.8	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	152.61	12.91	139.70
MW-8	10/26/2006	<50.0	<0.500	<0.500	<0.500	<0.500	6.09	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	152.61	14.28	138.33
MW-8	1/19/2007	<50	<0.50	<0.50	<0.50	<1.0	8.3	<1.0	<1.0	<1.0	<10	<0.50	<0.50	152.61	14.45	138.16
MW-8	4/2/2007	<50 a	<0.50	<1.0	<1.0	<1.0	23	<2.0	<2.0	<2.0	<10	<0.50	<1.0	152.61	14.54	138.07
MW-8	7/18/2007	<50 a	<0.50	<1.0	<1.0	<1.0	24	<2.0	<2.0	<2.0	<10	<0.50	<1.0	152.61	14.71	137.90
MW-8	10/30/2007	<50 a	<0.50	<1.0	<1.0	<1.0	14	<2.0	<2.0	<2.0	<10	<0.50	<1.0	152.61	15.45	137.16
MW-8	2/6/2008	57 a	<0.50	<1.0	<1.0	<1.0	8.1	<2.0	<2.0	<2.0	<10	<0.50	<1.0	152.61	15.27	137.34
MW-8	4/8/2008	<50 a	<0.50	<1.0	<1.0	<1.0	19	<2.0	<2.0	<2.0	<10	<0.50	<1.0	152.61	14.50	138.11

**WELL CONCENTRATIONS**  
**Shell Service Station**  
**3600 Park Boulevard**  
**Oakland, CA**

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2- DCA (ug/L)	EDB (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
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**Abbreviations:**

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8260B.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B

TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B

TBA = Tertiary butyl alcohol or tertiary butanol, analyzed by EPA Method 8260B

1,2-DCA = 1,2-Dichloroethane, analyzed by EPA Method 8260B

EDB = Ethylene Dibromide, analyzed by EPA Method 8260B

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

NA = Not applicable

**Notes:**

a = Analyzed by EPA Method 8015B (M).

b = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

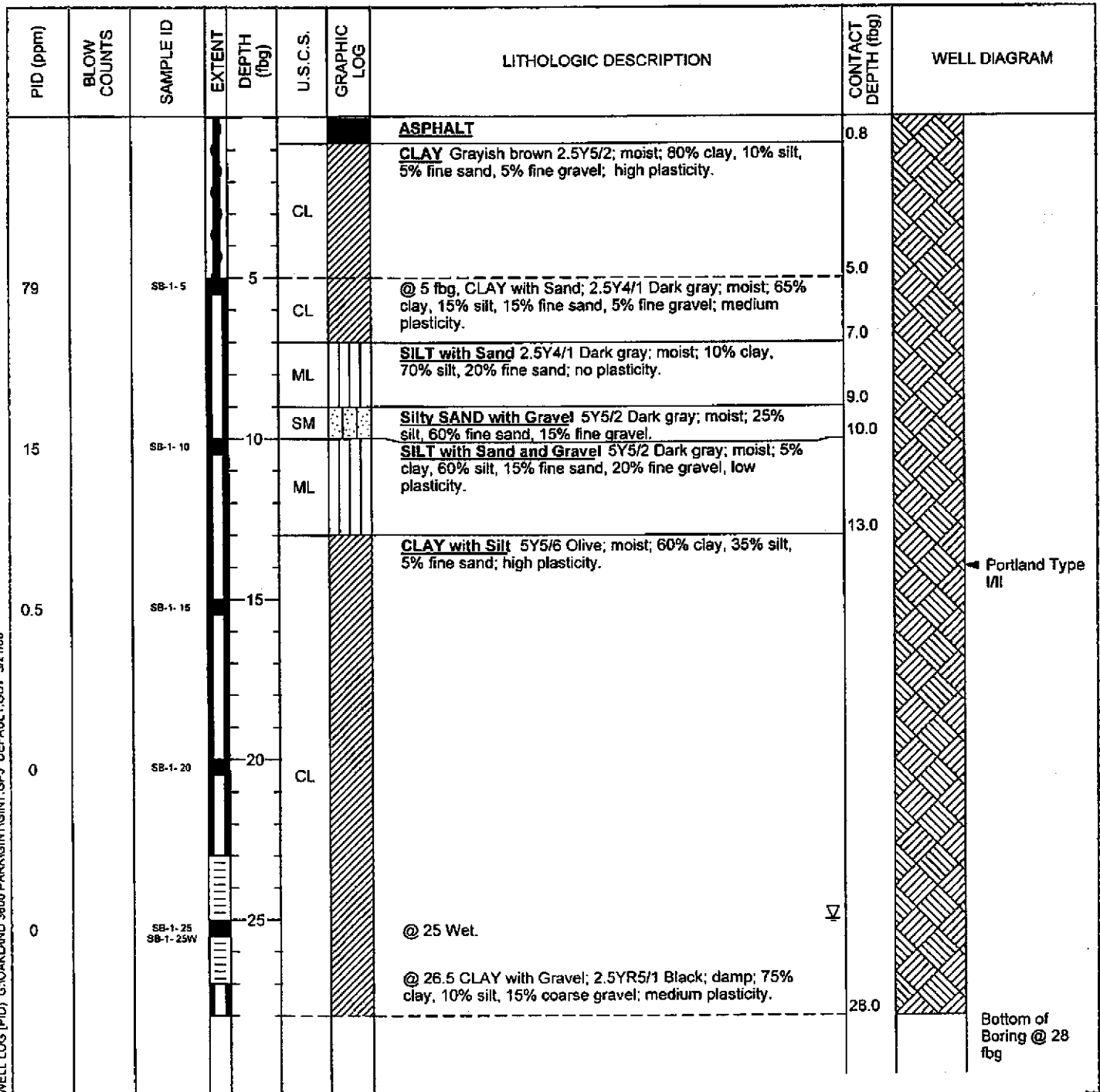
Site surveyed on February 2, 2006 by Virgil Chavez Land Surveying of Vallejo, CA.



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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-1
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	03-Jan-06
LOCATION	3600 Park Boulevard, Oakland, California	DRILLING COMPLETED	03-Jan-06
PROJECT NUMBER	248-0937-008	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3"	SCREENED INTERVALS	NA
LOGGED BY	S. Dalle IV	DEPTH TO WATER (First Encountered)	25.0 fbg (03-Jan-06) ▽
REVIEWED BY	D. Gibbs P.G. # 7804	DEPTH TO WATER (Static)	NA ▽
REMARKS	Hand augered to 5 fbg.		



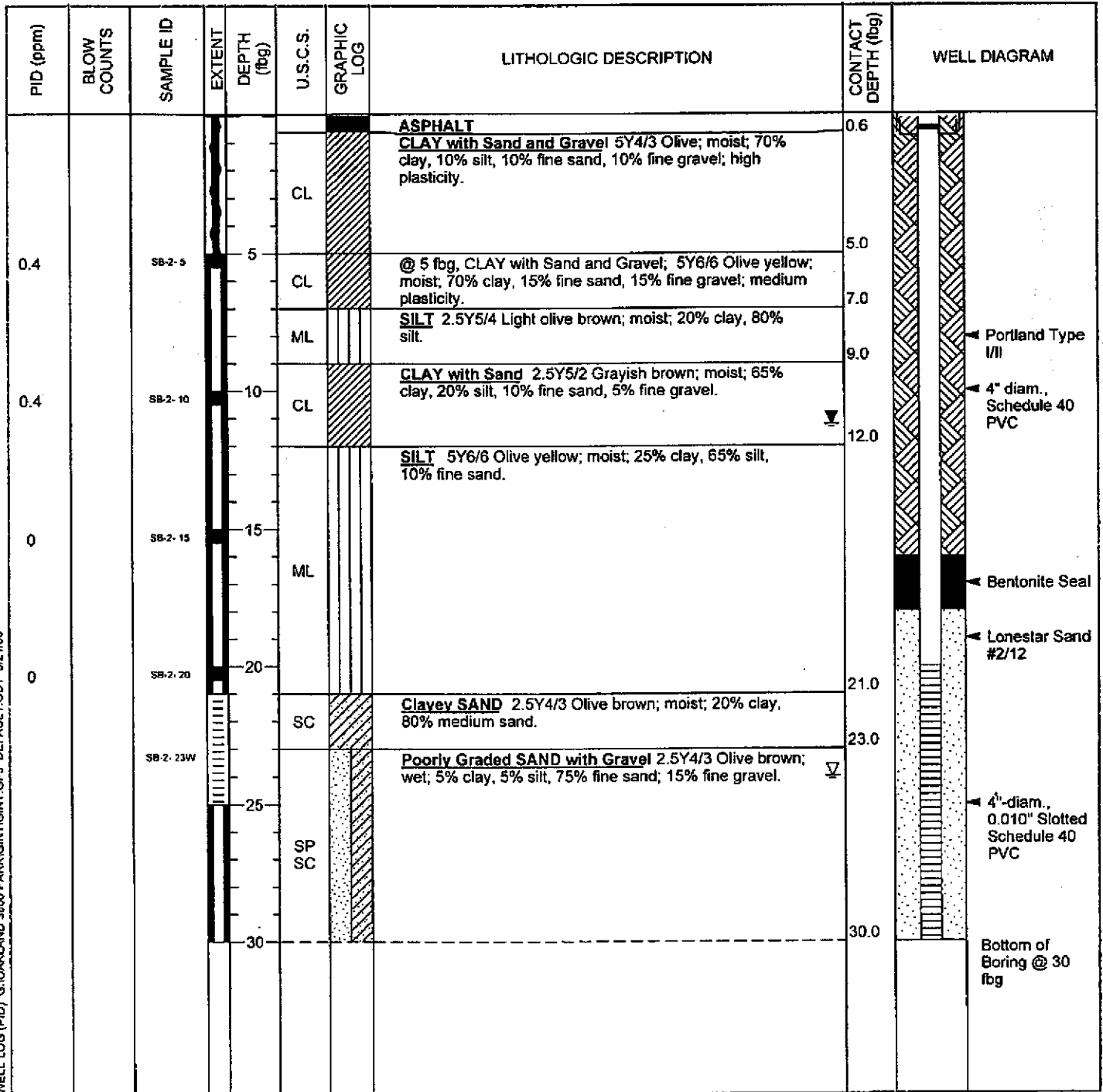
WELL LOG (PID): G:\OAKLAND 3600 PARK\GINTGINT.GPJ DEFAULT.GDT 3/21/06



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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-2
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	04-Jan-06
LOCATION	3600 Park Boulevard, Oakland, California	DRILLING COMPLETED	05-Jan-06
PROJECT NUMBER	248-0937-008	WELL DEVELOPMENT DATE (YIELD)	19-Jan-06 (29 gallons purged.)
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	157.50 ft above msl
DRILLING METHOD	Hydraulic push / hollow stem auger	TOP OF CASING ELEVATION	156.92 ft above msl
BORING DIAMETER	3" / 10"	SCREENED INTERVALS	20 to 30 fbg
LOGGED BY	S. Daie IV	DEPTH TO WATER (First Encountered)	24.0 fbg (03-Jan-06) $\nabla$
REVIEWED BY	D. Gibbs P.G. # 7804	DEPTH TO WATER (Static)	11.23 fbg (24-Jan-06) $\nabla$
REMARKS	Air knifed to 5 fbg. First encountered groundwater at 24 fbg. Water rose to 23 fbg before being sampled via hypodermic.		



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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-3
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	03-Jan-06
LOCATION	3600 Park Boulevard, Oakland, California	DRILLING COMPLETED	04-Jan-06
PROJECT NUMBER	248-0937-008	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3"	SCREENED INTERVALS	NA
LOGGED BY	S. Dalie IV	DEPTH TO WATER (First Encountered)	8.0 fbg (03-Jan-06) ▽
REVIEWED BY	D. Gibbs P.G. # 7804	DEPTH TO WATER (Static)	5.50 fbg (03-Jan-06) ▽
REMARKS	Hand augered to 5 fbg. Water was sampled by disposable bailer @ 5.5 fbg.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				0.6			ASPHALT	0.6	
				5.0	CL		CLAY 2.5Y5/2 Grayish brown; moist; 85% clay, 10% silt, 5% fine sand; high plasticity.	5.0	
0		SB-3-5 SB-3-5W		5.0	CL		@ 5 fbg CLAY with Sand 2.5Y6/6 Olive yellow; moist to wet; 85% clay, 15% fine sand; high plasticity.	5.50	
				6.5	SP		Poorly Graded SAND with Silt 2.5Y6/6; moist to wet; 10% silt, 85% fine sand, 5% fine gravel.	6.5	
0.1		SB-3-10		10.0	CL		CLAY with Sand 2.5Y6/6; wet; 70% clay, 15% silt, 15% fine sand; high plasticity.	10.0	
				12.0				12.0	Bottom of Boring @ 12 fbg

Note: Initial groundwater was encountered at 8 fbg. After removing the tooling from the ground water rose to 5.5 fbg where a sample was collect in the open hole using a disposable bailer. Soil was moist during soil sampling below 5 fbg to 8 fbg. After removing the tools from the ground the soil became saturated as water charged in up to 5 fbg..

WELL LOG (PID) G:\OAKLAND 3600 PARKING\TIGINT.GPJ DEFAULT.GDT 3/21/06

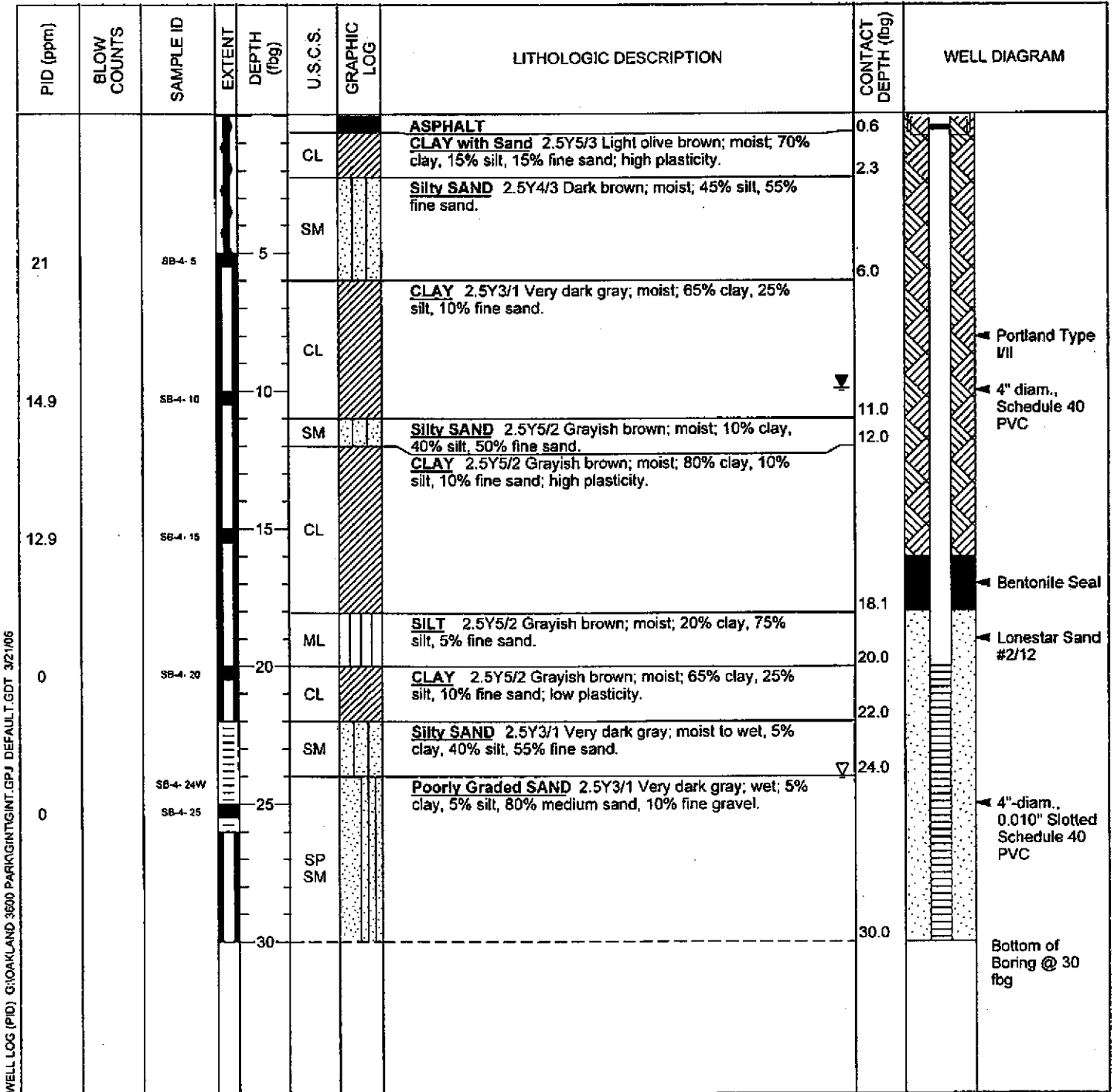




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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-4
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	04-Jan-06
LOCATION	3600 Park Boulevard, Oakland, California	DRILLING COMPLETED	05-Jan-06
PROJECT NUMBER	248-0937-008	WELL DEVELOPMENT DATE (YIELD)	19-Jan-06 (29 gallons purged.)
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	155.33 ft above msl
DRILLING METHOD	Hydraulic push / hollow stem auger	TOP OF CASING ELEVATION	155.00 ft above msl
BORING DIAMETER	3" / 10"	SCREENED INTERVALS	20 to 30 fbg
LOGGED BY	S. Dalie IV	DEPTH TO WATER (First Encountered)	24.0 fbg (03-Jan-06) ▽
REVIEWED BY	D. Gibbs P.G. # 7804	DEPTH TO WATER (Static)	9.92 fbg (24-Jan-06) ▽
REMARKS	Air knifed to 5 fbg.		



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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-5
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	03-Jan-06
LOCATION	3600 Park Boulevard, Oakland, California	DRILLING COMPLETED	03-Jan-06
PROJECT NUMBER	248-0937-008	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3"	SCREENED INTERVALS	NA
LOGGED BY	S. Dalle IV	DEPTH TO WATER (First Encountered)	8.0 fbg (03-Jan-06)
REVIEWED BY	D. Gibbs P.G. # 7804	DEPTH TO WATER (Static)	5.00 fbg (03-Jan-06)
REMARKS	Hand augered to 5 fbg. First encountered water at 8 fbg. Water rose to 5 fbg where it was sampled by a disposable bailer.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							<b>CONCRETE</b>	0.8	
					CL		<b>CLAY with Sand</b> 2.5Y5/1 Gray; moist; 70% clay, 15% silt, 15% fine sand; high plasticity.		
0.2		SB-5-5		5	CL		<b>@ 4.5 fbg CLAY with Sand and Gravel</b> 2.5Y6/6 Olive yellow; moist; 70% clay, 15% fine sand, 15% fine gravel; medium plasticity.	4.5	
					ML		<b>SILT with Gravel</b> 2.5Y6/6 Olive yellow; moist to wet; 25% clay, 60% silt, 15% fine gravel.	7.0	
0		SB-5-10		10	CL		<b>CLAY with Sand</b> 2.5Y6/6 Olive yellow; wet; 70% clay; 15% silt, 15% fine sand; high plasticity.	10.0	
								12.0	
<p>Note: Initial groundwater was encountered at 8 fbg. After removing the tooling from the ground water rose to 5 fbg where a sample was collect in the open hole using a disposable bailer. Soil was moist during soil sampling below 5 fbg to 8 fbg. After removing the tools from the ground the soil became saturated as water charged in up to 5 fbg..</p>									

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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-6
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	03-Jan-06
LOCATION	3600 Park Boulevard, Oakland, California	DRILLING COMPLETED	03-Jan-06
PROJECT NUMBER	248-0937-008	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3"	SCREENED INTERVALS	NA
LOGGED BY	S. Datie IV	DEPTH TO WATER (First Encountered)	39.0 fbg (03-Jan-06)
REVIEWED BY	D. Gibbs P.G. # 7804	DEPTH TO WATER (Static)	25.00 fbg (03-Jan-06)
REMARKS	Hand augered to 5 fbg. First water encountered at 39 fbg. Water rose rapidly to 25 fbg, where water was sampled via hydroponct		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
			0.6			<b>ASPHALT</b>	0.6	
0.1		SB-6-5	5	CL		<b>CLAY with Sand and Gravel</b> 2.5Y5/2 Light olive brown; moist; 70% clay, 30% silt; high plasticity.	7.0	
0.2		SB-6-10	10	GC		<b>CLAY with Sand and Gravel</b> 2.5Y4/3 Olive brown; dry; 70% clay, 15% fine sand, 15% fine gravel; medium plasticity.	11.0	
				CL		<b>Clayey GRAVEL:</b> 2.5Y4/2 Dark grayish brown; dry; 40% clay, 5% fine sand, 55% coarse gravel; no to low plasticity.	12.5	
				CL		<b>CLAY with Sand</b> 2.5Y4/4 Olive brown; dry; 75% clay, 25% fine sand; no to low plasticity.	14.5	
0		SB-6-15	15	ML		<b>SILT with Sand</b> 2.5Y4/4 Olive brown; moist; 80% silt, 20% fine sand; no to low plasticity.		
				ML		<b>CLAY with Sand</b> 2.5Y4/4 Olive brown; moist; 70% clay, 10% silt, 20% fine sand; high plasticity.		
				CL		@ 18 fbg <b>CLAY</b> 2.5Y4/4 Olive brown; moist; 65% clay, 35% silt; low plasticity.		
3.9		SB-6-20	20	CL				
1.9		SB-6-25 SB-6-25W	25	ML		<b>SILT with Sand</b> 2.5Y5/4 Light olive brown; moist; 15% clay, 70% silt, 15% medium sand.	26.0	

WELL LOG (PID) G:\OAKLAND 3600 PARK\GINTGINT.GPJ DEFAULT.GDT 3/2/06

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# BORING/WELL LOG

CLIENT NAME Shell Oil Products US BORING/WELL NAME SB-6  
 JOB/SITE NAME Shell-branded Service Station DRILLING STARTED 03-Jan-06  
 LOCATION 3600 Park Boulevard, Oakland, California DRILLING COMPLETED 03-Jan-06

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.1		SB-6-30		30				30.5	
0.1		SB-6-35		35	CL		CLAY with Sand and Gravel 2.5Y/1 Black; moist; 70% clay, 10% silt, 10% fine sand, 10% fine gravel; high plasticity.		
0		SB-6-40		40	SP SM		Poorly Graded SAND with Silt 2.5Y4/4 Olive brown; wet, 10% silt, 90% medium sand.	39.0 40.0	
									Bottom of Boring @ 40 fbg

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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-7
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	04-Jan-06
LOCATION	3600 Park Boulevard, Oakland, California	DRILLING COMPLETED	06-Jan-06
PROJECT NUMBER	248-0937-008	WELL DEVELOPMENT DATE (YIELD)	19-Jan-06 (41 gallons purged.)
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	154.37 ft above msl
DRILLING METHOD	Hydraulic push / hollow stem auger	TOP OF CASING ELEVATION	154.00 ft above msl
BORING DIAMETER	3" / 10"	SCREENED INTERVALS	28 to 38 fbg
LOGGED BY	S. Dalie IV	DEPTH TO WATER (First Encountered)	35.0 fbg (04-Jan-06)
REVIEWED BY	D. Gibbs P.G. # 7804	DEPTH TO WATER (Static)	9.64 fbg (24-Jan-06)
REMARKS	Air knifed to 5 fbg. First encountered water at 35 fbg. Water rose to 29 fbg before being sampled via hydropunch.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							<b>ASPHALT</b>	0.6	<p>Bottom of Boring @ 1 fbg</p> <p>Portland Type III</p> <p>4" diam., Schedule 40 PVC</p>
					CL		<b>CLAY with Gravel</b> 10YR5/6 Yellowish brown; moist; 65% clay, 10% silt, 10% fine sand, 15% fine gravel; high plasticity.	3.0	
					ML		<b>Silt with SAND</b> 10YR5/6 Yellowish brown; moist; 10% clay, 75% silt, 15% fine sand.	6.5	
0.9		SB-7-5			SM		<b>Silty SAND with Gravel</b> 10YR5/3 Brown; moist; 20% silt, 65% fine sand, 15% fine gravel.	8.0	
					SC		<b>Clayey SAND with Gravel</b> 10YR4/3 Brown; moist; 25% clay, 60% fine sand, 15% fine gravel.	9.5	
0.1		SB-7-10			SP		<b>Poorly Graded SAND</b> 10YR4/3 Brown; wet; 100% fine sand.	10.3	
					SC		<b>Clayey SAND with Gravel</b> 10YR4/3 Brown; moist; 25% clay, 60% fine sand, 15% fine gravel.	14.0	
0.1		SB-7-15			GC		<b>Clayey GRAVEL</b> 10YR5/2 Grayish brown; moist; 40% clay, 5% silt, 55% coarse gravel.	18.0	
0		SB-7-20			CL		<b>CLAY</b> 10YR5/3 Brown; moist; 55% clay, 40% silt, 5% fine sand; low plasticity.		

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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-7
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	04-Jan-06
LOCATION	3600 Park Boulevard, Oakland, California	DRILLING COMPLETED	06-Jan-06

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ftg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ftg)	WELL DIAGRAM
0		SB-7-25						25.0	Bentonite Seal
					ML		<b>SILT</b> 10YR5/3 Brown; moist; 45% clay, 55% silt; no to low plasticity.		Lonestar Sand #2/12
0		SB-7-29W						28.8	
		SB-7-30			CL		<b>CLAY</b> 10YR4/3 Brown; moist; 75% clay, 20% silt, 5% fine sand; high plasticity.		
					SC		<b>Clayey SAND</b> 10YR4/3 Brown; moist; 25% clay, 70% fine sand; 5% fine gravel.	32.0	
0		SB-7-35						35.0	4"-diam., 0.010" Slotted Schedule 40 PVC
					SP		<b>Poorly Graded SAND</b> 10YR4/3 Brown; wet; 100% fine sand.		
					CL		<b>CLAY</b> 10YR4/3 Brown; wet; 65% clay, 25% silt, 10% fine sand; high plasticity.	38.0	
0		SB-7-40						40.0	

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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-8
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	04-Jan-06
LOCATION	3600 Park Boulevard, Oakland, California	DRILLING COMPLETED	06-Jan-06
PROJECT NUMBER	248-0937-008	WELL DEVELOPMENT DATE (YIELD)	19-Jan-06 (34 gallons purged.)
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	152.86 ft above msl
DRILLING METHOD	Hydraulic push / hollow stem auger	TOP OF CASING ELEVATION	152.61 ft above msl
BORING DIAMETER	3" / 10"	SCREENED INTERVALS	40 to 50 fbg
LOGGED BY	S. Dalie IV	DEPTH TO WATER (First Encountered)	33.0 fbg (04-Jan-06)
REVIEWED BY	D. Gibbs P.G. # 7804	DEPTH TO WATER (Static)	17.08 fbg (24-Jan-06)
REMARKS	Air knifed to 5 fbg. First encountered water at 33 fbg. Sampled water discretely at 32 fbg, and 50 fbg via hydropunch.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				0.6			<b>ASPHALT</b>	0.6	<p>Portland Type III            4" diam., Schedule 40 PVC</p>
				3.3	CL		<b>CLAY with Sand</b> 10YR5/4 Yellowish brown; moist; 65% clay, 10% silt, 25% medium sand; high plasticity.	3.3	
0.9		SB-8-5		5	SM		<b>Silty SAND</b> 10YR5/4 Yellowish brown; moist; 15% clay, 25% silt, 60% medium sand.	7.0	
				7.0	CL		<b>CLAY</b> 10YR5/3 Brown; moist; 70% clay, 20% silt, 10% fine sand; medium plasticity.	9.0	
0.1		SB-8-10		10	ML		<b>SILT</b> 10YR5/2 Grayish brown; moist; 35% clay, 55% silt, 10% fine sand; low plasticity.	12.0	
				12.0	GC		<b>Clayey GRAVEL</b> 10YR5/2 Grayish brown; moist; 25% clay, 15% silt, 60% fine gravel.	16.0	
0.1		SB-8-15		15			<b>SILT</b> 10YR5/2 Grayish brown; moist; 25% clay, 65% silt, 10% fine sand.	16.0	
				20	ML				
0		SB-8-20		20					
0		SB-8-25		25					
				26.0			<b>CLAY with Gravel</b> 10YR4/3 Brown; moist; 60% clay, 15% silt, 5% fine sand; 20% fine gravel; no to low plasticity. @ 27 fbg 10YR3/3 Dark brown.	26.0	

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# BORING/WELL LOG

CLIENT NAME Shell Oil Products US BORING/WELL NAME MW-8  
 JOB/SITE NAME Shell-branded Service Station DRILLING STARTED 04-Jan-06  
 LOCATION 3600 Park Boulevard, Oakland, California DRILLING COMPLETED 06-Jan-06

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PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (ftg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ftg)	WELL DIAGRAM
0		SB-8-30	30	CL		@ 30 ftg CLAY with Gravel; 10YR5/1 Black; moist; 75% clay, 10% silt, 5% fine sand, 10% fine gravel; high plasticity.		
		SB-8-32W					33.0	
0		SB-8-35	35			Clayey SAND with Gravel 10YR4/3 Brown; wet; 20% clay, 15% silt, 50% fine sand, 15% fine gravel.		
			40	SC				
		SB-8-50W	50				50.0	
								Bottom of Boring @ 50 ftg

WELL LOG (PID) G:\OAKLAND 3600 PARKBLVD\GINT.GPJ DEFAULT.GOT 3/21/06