

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

ALEX BRISCOE, Agency Director



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

January 24, 2014

Perry Pineda (Sent via E-mail to: perry.pineda@shell.com)
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Bhushan Bansal
Bansal, Inc.
2120 Montana Street
Oakland, CA 94602-2218

Subject: Case Closure for Fuel Leak Case No. RO0000173 and GeoTracker Global ID T0600101805, Shell #16-5675, 2120 Montana Street, Oakland, CA 94602

Dear Mr. Pineda and Mr. Bansal:

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 remains in soil at concentrations up to 1,300 ppm at a depth of 4.5 feet below ground surface (bgs).
- Total Petroleum Hydrocarbons as gasoline remains in groundwater at concentrations up to 5,300 ppb.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Donna Drogos".

Donna Drogos, P.E.
Division Chief

Enclosures:

1. Remedial Action Completion Certification
2. Case Closure Summary

cc:

Leroy Griffin, Oakland Fire Department, 250
Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA
94612-2032 (Sent via E-mail to:
lgriffin@oaklandnet.com)

Closure Unit
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120
(uploaded to GeoTracker)

Peter Schaefer
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608 2032
(Sent via E-mail to: pschaefer@croworld.com)

Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Jerry Wickham, ACEH (Sent via E-mail to: jerry.wickham@acgov.org)

GeoTracker (w/enc)
eFile (w/orig enc)

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

ALEX BRISCOE, Director



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

REMEDIAL ACTION COMPLETION CERTIFICATION

January 24, 2014

Perry Pineda (Sent via E-mail to: perry.pineda@shell.com)
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Bhushan Bansal
Bansal, Inc.
2120 Montana Street
Oakland, CA 94602-2218

Subject: Case Closure for Fuel Leak Case No. RO0000173 and GeoTracker Global ID T0600101805, Shell #16-5675, 2120 Montana Street, Oakland, CA 94602

Dear Mr. Pineda and Mr. Bansal:

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.

Please be aware that claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,


Ariu Levi
Director

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

I. AGENCY INFORMATION

Date: August 7, 2013

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 #13-5675		
Site Facility Address: 2120 Montana Street, Oakland, California 94602		
RB Case No.: 01-1952	Local Case No.: STID 4022	LOP Case No.: RO0000173
URF Filing Date: 07/29/1993	Geotracker ID: T0600101805	APN: 26-834-22-1
Responsible Parties	Addresses	Phone Numbers
Bhushan Bansal, Bansal, Inc.	2120 Montana Street Oakland, CA 94602-2218	No phone number
Perry Pineda 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	Removed	11/13/2012
2	10,000	Gasoline	Removed	11/13/2012
3	10,000	Gasoline	Removed	11/13/2012
Piping			Removed	11/2012

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. A small crack was found and repaired in the regular-grade underground storage tank (UST) in November 2003. No holes, cracks, or other signs of failure were observed when the USTs were removed in November 2012.	
Site characterization complete? Yes	Date Approved By Oversight Agency: ----

Monitoring wells installed? Yes	Number: 11	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 8.35 feet bgs	Lowest Depth: 21.0 feet bgs	Flow Direction: Southwest
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: No water supply wells were identified within 2,000 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Sausal Creek is approximately 240 feet west northwest of the site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None identified.	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	Three 10,000 gallon	Disposal destination not reported	November 2012
Piping	Not Reported	Not Reported	November 2012
Free Product	----	----	----
Soil	628 tons	Pea gravel and soil was transported to Republic Services Vasco Road Landfill in Livermore, CA for disposal	December 6,7, and 12, 2012
Groundwater	769,943 gallons	Treated groundwater was discharged to the sanitary sewer under permit to East Bay Municipal Utilities District	April 2003 to March 2007
	10,000 gallons	Groundwater was transported to the Shell refinery in Martinez for treatment and disposal.	November 2012

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)	1,900	1,300	473,000 ⁽¹⁾	5,300 ⁽¹⁾
TPH (Diesel)	----	----	----	----
Oil and Grease	----	----	----	----
Benzene	1.7	0.02	7,700 ⁽²⁾	34 ⁽²⁾
Toluene	0.16	<0.002	13,000 ⁽³⁾	6.7 ⁽³⁾
Ethylbenzene	21	0.1	5,800 ⁽²⁾	16 ⁽²⁾
Xylenes	57	13	40,000 ⁽²⁾	28 ⁽²⁾
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	8.7 ⁽⁴⁾	8.7 ⁽⁴⁾	Not Analyzed	Not Analyzed
MTBE	5.8 ⁽⁵⁾	0.42 ⁽⁶⁾	63,000 ⁽⁷⁾	22 ⁽⁸⁾
Other (8240/8270)	----	----	----	----

Notes:

- (1) Maximum concentration before cleanup is a groundwater sample from monitoring well MW-2 collected on November 16, 2005; maximum concentration after cleanup is from the most recent groundwater monitoring event on February 20, 2013.
- (2) Maximum concentration before cleanup is a groundwater sample from monitoring well TBW-N collected on June 30, 2003; maximum concentration after cleanup is from the most recent groundwater monitoring event on February 20, 2013.
- (3) Maximum concentration before cleanup is a groundwater sample from monitoring well TBW-N collected on December 19, 2002; maximum concentration after cleanup is from the most recent groundwater monitoring event on February 20, 2013.
- (4) Lead = 8.7 ppm; no other metals analyzed.
- (5) MTBE = 5.8 ppm; TBA = 9.3 ppm; DIPE, ETBE, TAME <0.005 ppm; EDB, and EDC <0.002 ppm.
- (6) MTBE = 0.42 ppm; TBA = 1.2 ppm; DIPE, ETBE, TAME, EDB, and EDC <0.002 ppm.
- (7) MTBE = 63,000 ppb (Sample collected from MW-2 on May 31, 2001); TBA = 15,000 ppb, DIPE, TAME, ETBE, EDB, and EDC <0.5 ppb.
- (8) From the groundwater monitoring event on February 20, 2013: MTBE = 22 ppb; TBA = 380 ppb; DIPE, TAME, ETBE, EDB, and EDC <0.5 ppb.

Site History and Description of Corrective Actions:

The site is an active Shell-branded service station located on the northwest corner of Montana Street and Fruitvale Avenue in Oakland, CA. Surrounding land use is mixed commercial and residential.

In November 1997, secondary containment was added to the three dispensers and turbine sumps. Up to 59 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline (TPHg), 0.76 ppm benzene, and 1.1 ppm MTBE were detected in three soil samples collected from beneath the dispensers.

In October 1999, three soil borings (SB-1 through SB-3) were advanced on-site. Soil samples from the borings detected up to 54 ppm TPHg, 0.019 ppm benzene, and 0.24 ppm MTBE. Grab groundwater samples collected from the borings detected up to 2,380 parts per billion (ppb) TPHg, 10.6 ppb benzene, and 3,210 ppb MTBE.

Three groundwater monitoring wells (MW-1 through MW-3) were installed in February 2001. Soil samples from the well borings detected up to 10 ppm TPHg, 0.066 ppm benzene, and 5.0 ppm MTBE.

Mobile batch groundwater extraction (GWE) events were conducted using wells MW-1 and TBW-N between August 2001 and March 2003. Mobile GWE removed approximately 2.68 pounds of separate phase hydrocarbons (SPH) and an estimated 25.27 pounds of TPHg and 8.13 pounds of MTBE.

In June 2002, a 5-day soil vapor extraction (SVE) pilot test was performed using tank backfill well TBW-E. The SVE test removed an estimated 176 pounds of TPHg, 0.998 pounds of benzene, and 1.92 pounds of MTBE; however, vapor concentrations decreased by an order of magnitude during the pilot test.

In June 2002, two monitoring wells (MW-4 and MW-5) were installed. Soil samples from the well borings detected up to 18 ppm TPHg and 0.008 ppm benzene.

From April 2003 to March 2007, GWE was conducted from wells MW-1 and TBW-N and beginning in April 2006 from extraction wells EW-1 and EW-2. Due to the presence of SPH, the GWE system was shut down between July 2003 and April 2004 to include an oil-water separator in the system. The GWE system removed approximately 769,943 gallons of groundwater that contained an estimated 21.8 pounds of TPHg, 0.826 pounds of benzene, and 4.87 pounds of MTBE.

In November 2003, a small crack was found in the bottom of the regular-grade gasoline UST. After the crack was repaired, the UST passed a pressure test and was certified tight. The fuel dispensers and UST sumps were upgraded in May 2004. Soil samples collected from beneath the dispensers detected up to 1,900 ppm TPHg, 1.7 ppm benzene, and 5.8 ppm MTBE.

In July 2004, a 5-day soil vapor extraction (SVE) pilot test was performed using monitoring well MW-1. Elevated TPHg, benzene, toluene, ethylbenzene, and MTBE vapor concentrations (up to 10,240 ppm total volatile organic compounds) were sustained over the duration of the SVE pilot test. The pilot test removed an estimated 257 pounds of TPHg, 0.822 pounds of benzene, and 1.22 pounds of MTBE.

In June 2005, four cone penetrometer test (CPT) borings (SB-4, SB-5, SB-6, and SB-8) were advanced and two soil vapor probes (SV-D and SV-E) were installed. Soil samples from the CPT borings detected up to 23 ppm TPHg, 0.007 ppm benzene, and 0.23 ppm MTBE. Grab groundwater samples collected from the CPT borings detected up to 28,000 ppb TPHg, 100 ppb benzene, 1,100 ppb MTBE, and 15,000 ppb TBA.

In August 2005, July 2007, and April 2009, soil vapor samples were collected from depths of 5 and 10 feet below grade (fbg) in probes SV-D and SV-E. Soil vapor samples collected from 5 fbg detected up to 25,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) TPHg and 4.4 $\mu\text{g}/\text{m}^3$ benzene.

Site History and Description of Corrective Actions (continued):

A drawdown test was conducted in March 2007 using wells EW-1 and EW-2 to observe and recover any SPH that may be present in the area of MW-2. The objective of the test was to lower groundwater levels in the area of well MW-2 by pumping on-site wells EW-1 and EW-2 to expose a sand layer between 15 and 20 fbg. After approximately 50 hours of GWE, the target drawdown level was reached. The drawdown was maintained by pumping for an additional 24 hours. During this time, no SPH was observed.

In November 2012, three 10,000-gallon USTs, dispensers, and piping were removed. Four soil samples were collected from the sidewalls of the UST excavation, three soil samples were collected beneath the dispensers, and five soil samples were collected beneath product piping. TPHg and benzene were detected at concentrations up to 1,300 ppm and 0.42 ppm, respectively. Benzene was not detected at concentrations above the reporting limit. A grab groundwater sample collected from the UST excavation detected 210 ppb TPHg.

Groundwater monitoring was conducted from March 2001 through February 2013. During the groundwater monitoring event on February 20, 2013, the maximum concentrations of TPHg, benzene, and MTBE in groundwater were 5,300, 34 and 22 ppb, respectively. TBA was detected at concentrations up to 380 ppb.

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, closure of this site appears to be consistent with the policies established by the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy which became effective on August 17, 2012.		
Site Management Requirements: This fuel leak case has been evaluated for closure consistent with the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Based on this evaluation, no site management requirements appear to be necessary.		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: ----
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 11
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: ----		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

The site meets the general criteria for case closure under the LTCP.

The site does not appear to meet scenarios 1, 2, 3, or 4 of the groundwater media-specific criteria for closure under the LTCP because Sausal Creek is approximately 240 feet west northwest of the site. However, ACEH believes case closure is appropriate based on an analysis of site-specific conditions:

1. The plume is stable or decreasing in size.
2. The plume is less than 250 feet in length.
3. There is no free product.
4. The dissolved concentration of benzene is less than 1,000 ppb.
5. The dissolved concentration of MTBE is less than 1,000 ppb.
6. No water supply wells are within 1,000 feet of the plume boundary.
7. Based on the site hydrogeology, cross gradient locations, apparent stability of the plume, and distance to Sausal Creek, the potential for the plume to pose a threat to Sausal Creek appears to be low.

Since the site is an active commercial fueling station, the LTCP does not require evaluation of the potential for vapor intrusion to indoor air for the on-site building. The site is bordered to the west by a residential property. Based on the results of soil vapor sampling performed along the property boundary between the site and the residential property, residual contamination does not appear to pose a risk of vapor intrusion to indoor air for the adjacent residential property.

The site appears to meet the media-specific criteria for direct contact and outdoor air exposure under the LTCP. The maximum concentrations of benzene and ethylbenzene detected in soil samples collected to date within the upper 10 feet are less than the media-specific criteria in Table 1 of the LTCP for direct contact and outdoor air exposure. Since the release at the site consisted primarily of gasoline, naphthalene concentrations are not likely to exceed the media-specific criteria in Table 1 of the LTCP.

Conclusion:

Alameda County Environmental Health staff believe that the site meets the conditions for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy. Based upon the information available in our files to date, no further investigation or cleanup for the fuel leak case is necessary at this time.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham, P.G.	Title: Senior Hazardous Materials Specialist
Signature: <i>Jerry Wickham</i>	Date: 8/7/13
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: <i>Donna L. Drogos</i>	Date: 08/07/13

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: 08/12/13	

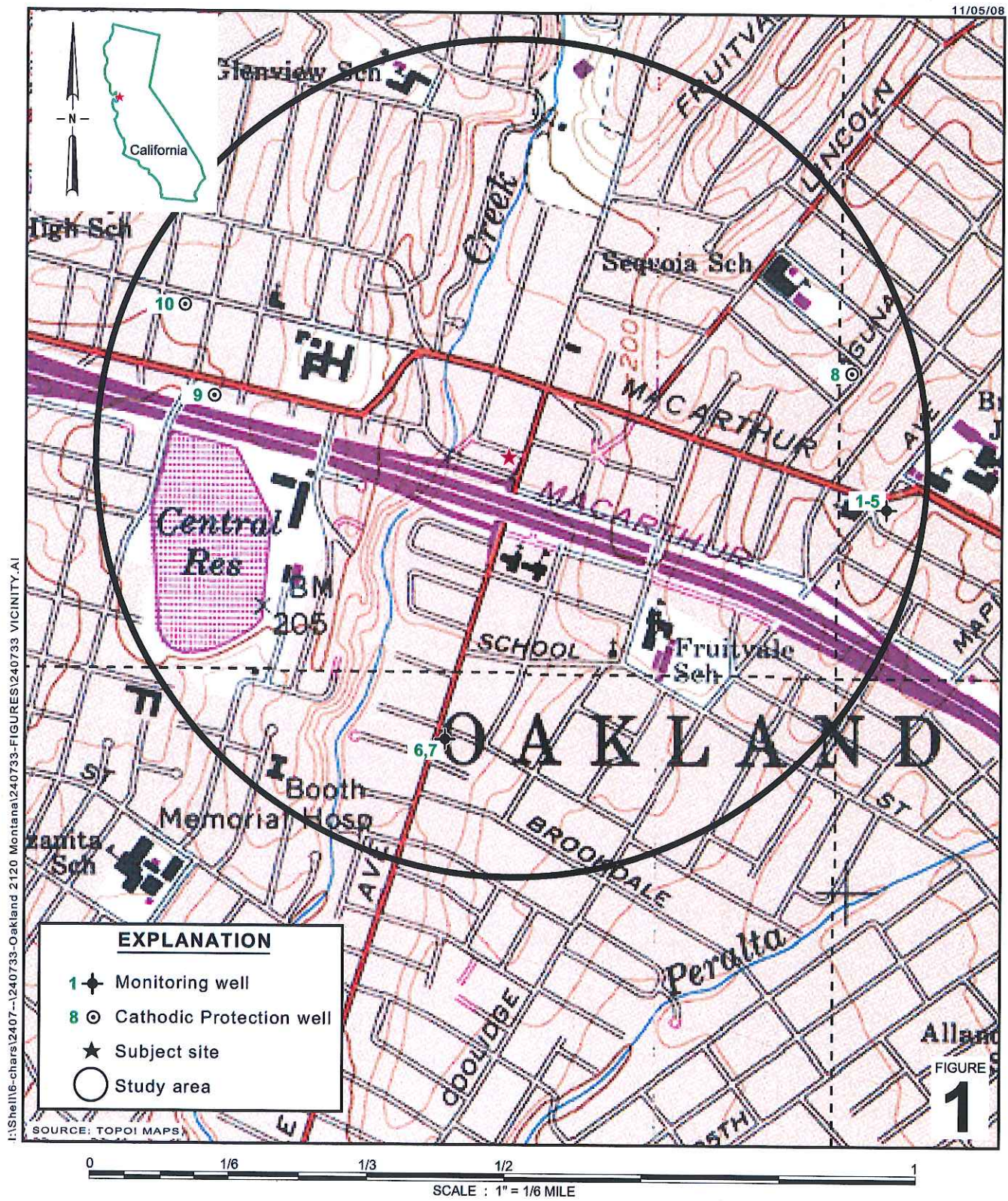
VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 10/21/13	Date of Well Decommissioning Report: 01/22/14	
All Monitoring Wells Decommissioned: <input checked="" type="radio"/> Yes <input type="radio"/> No	Number Decommissioned: 9	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: <i>Jerry Wickham</i>	Date: 01/24/14	

Attachments:

1. Site Vicinity Map and Aerial Photo (2 pp)
2. Site Plans (1 p)
3. Groundwater Contour and Chemical Concentration Maps (2 pp)
4. Soil and Soil Vapor Analytical Data (6 pp)
5. Groundwater Analytical Data (13 pp)
6. Boring Logs (20 pp)

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



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Shell-branded Service Station
 2120 Montana Street
 Oakland, California



CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

ATTACHMENT 1



2120 Montana Street, Oakland, CA (Google, 2013)

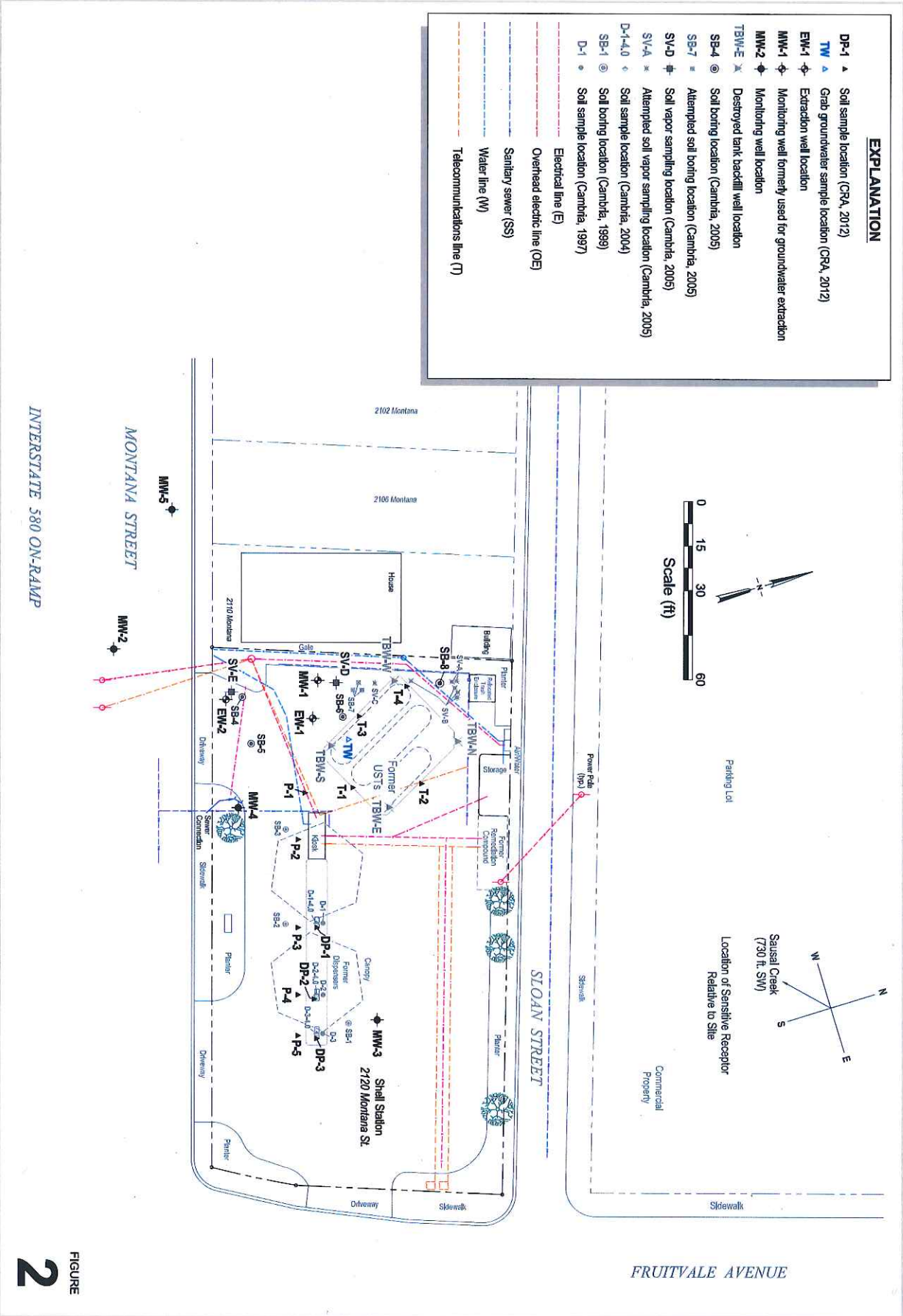


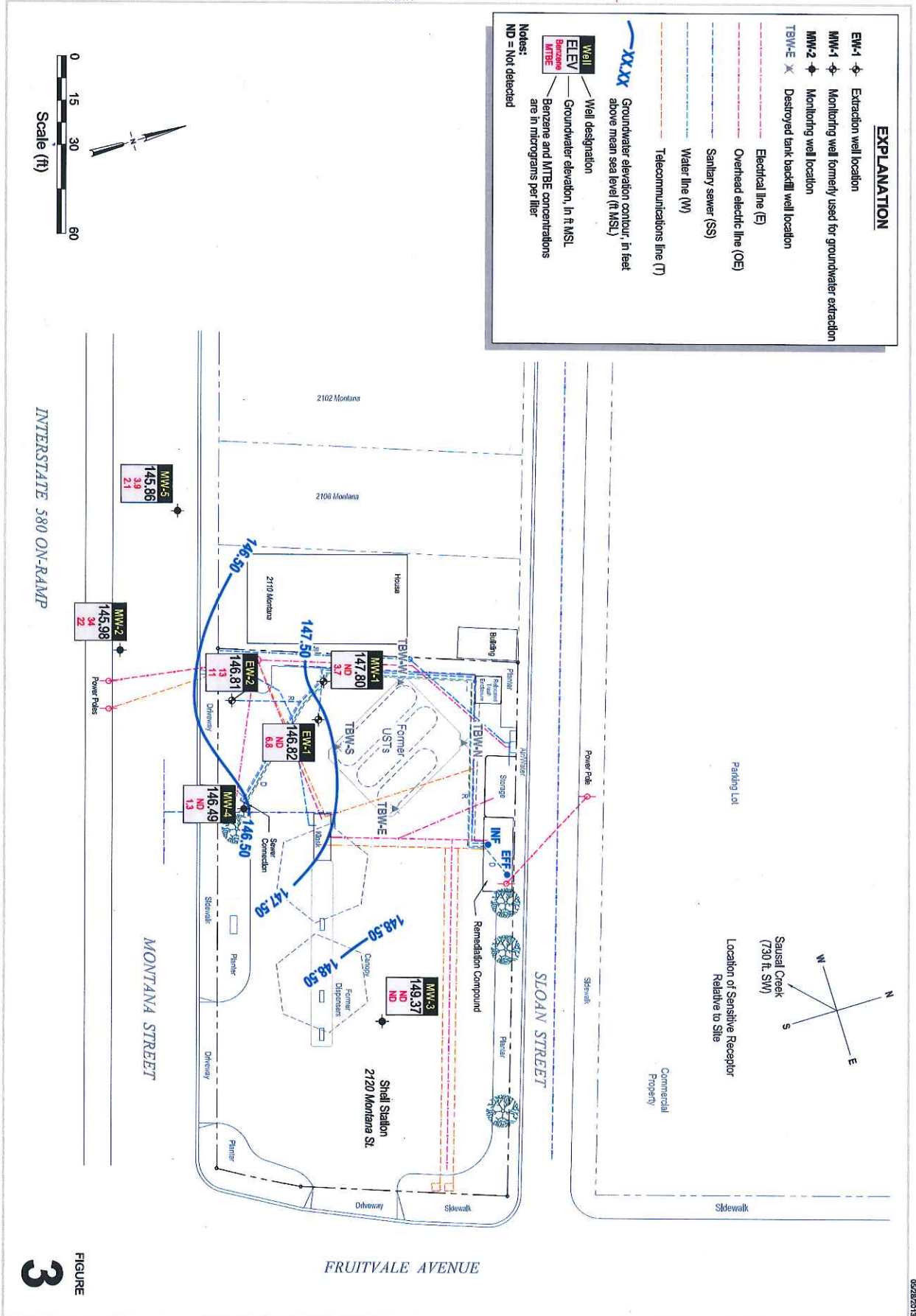
FIGURE 2

Shell-branded Service Station
 2120 Montana Street
 Oakland, California



Site Plan

ATTACHMENT 2



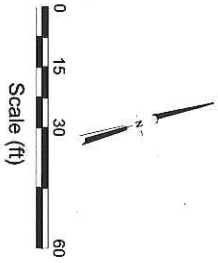
Shell-branded Service Station
 2120 Montana Street
 Oakland, California

ATTACHMENT 3

Groundwater Contour and Chemical Concentration Map

February 20, 2013

05/26/2013



EXPLANATION

- SV-F [] Proposed soil vapor probe location
- EW-1 [] Extraction well location
- MM-1 [] Well used for groundwater extraction
- MM-2 [] Monitoring well location
- TBW-M [] Tank backfill well location
- SB-1 [] Cambria soil boring location (10/99)
- INF [] GWE system sampling location
- Remediation piping (R) []
- Proposed remediation piping (P-R) []
- Discharge line (D) []
- Electrical and overhead electric line (E, OE) []
- Sanitary sewer (SS) []
- Water line (W) []
- Telecommunications line (T) []
- Product dispenser number []
- Groundwater flow direction and gradient []
- Groundwater elevation contour, in feet above mean sea level (msl) []
- Well designation []
- ELEV [] Groundwater elevation, in feet above msl
- MTBE [] Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.
- ND [] Below laboratory detection limit

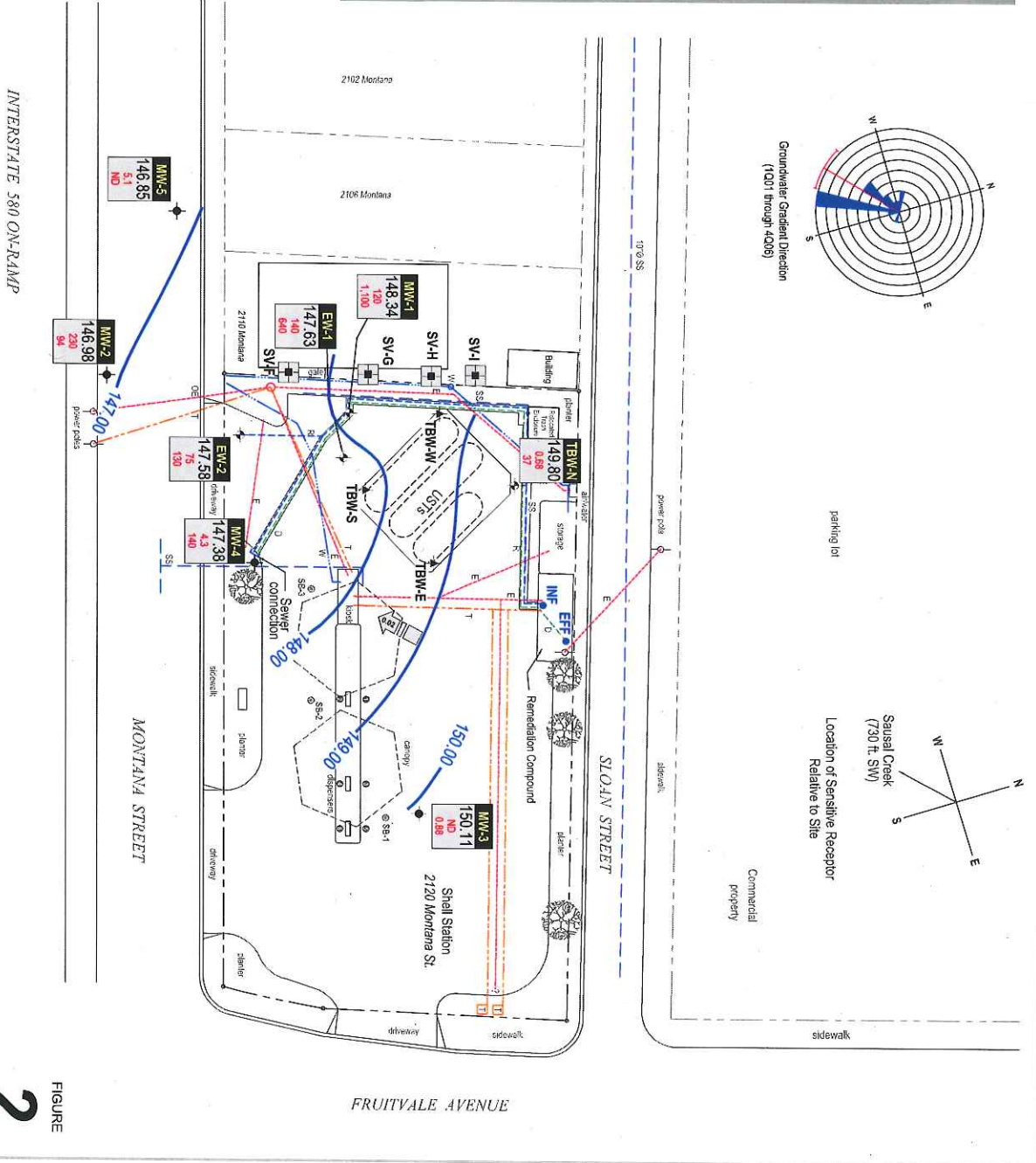


FIGURE 2

Shell-branded Service Station
 2120 Montana Street
 Oakland, California



Groundwater Contour and Chemical Concentration Map

December 18, 2006

01/18/07

TABLE 3

HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (ft)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)
D-1	11/11/1997	5	1.8	<0.0050	<0.0050	<0.0050	0.0059	0.16	--	--	--	--	--	--	9.2 a
D-2	11/11/1997	5	9.5	0.024	0.016	<0.0050	0.088	0.37	--	--	--	--	--	--	9.2 a
D-3	11/11/1997	5	59	0.76	0.14	<0.0050	0.095	1.1	--	--	--	--	--	--	9.2 a
SB-1-5	10/27/1999	5	54	<0.0050	<0.0050	0.091	0.099	<0.50	--	--	--	--	--	--	--
SB-1-10	10/27/1999	10	12	<0.0050	<0.0050	0.0093	0.030	<0.05	--	--	--	--	--	--	--
SB-2-5	10/27/1999	5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.05	--	--	--	--	--	--	--
SB-2-10	10/27/1999	10	2.0	0.0050	0.063	<0.0050	<0.0050	0.27/0.24 b	--	--	--	--	--	--	--
SB-2-15	10/27/1999	15	14	0.019	0.032	0.064	0.072	<0.05	--	--	--	--	--	--	--
SB-2-20	10/27/1999	20	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.05	--	--	--	--	--	--	--
SB-3-5	10/27/1999	5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.05	--	--	--	--	--	--	--
SB-3-10	10/27/1999	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.11	--	--	--	--	--	--	--
SB-3-15	10/27/1999	15	17	0.013	0.018	0.054	0.16	0.19	--	--	--	--	--	--	--
MW-1-5.5	2/20/2001	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.12	--	--	--	--	--	--	--
MW-1-10.0	2/20/2001	10	4.7	0.066	<0.0050	0.12	0.14	2.4	--	--	--	--	--	--	--
MW-1-15.5	2/20/2001	15.5	1.0	0.014	0.041	0.024	0.098	5.0	--	--	--	--	--	--	--
MW-1-20.5	2/20/2001	20.5	1.5	0.023	0.16	0.037	0.17	2.0	--	--	--	--	--	--	--
MW-1-24.0	2/20/2001	24	4.4	0.024	0.14	0.050	0.27	0.51	--	--	--	--	--	--	--
MW-2-5.5	2/21/2001	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--
MW-2-10.5	2/21/2001	10.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--
MW-2-15.5	2/21/2001	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	5.2	--	--	--	--	--	--	--
MW-2-21.0	2/21/2001	21	10	0.028	0.012	0.080	0.021	1.3	--	--	--	--	--	--	--
MW-3-5.5	2/21/2001	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--
MW-3-10.5	2/21/2001	10.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--
MW-3-15.5	2/21/2001	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--
MW-3-20.5	2/21/2001	20.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--	--	--

TABLE 3

HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (ft)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)
MW-4-5.5	6/21/2002	5.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
MW-4-9.0	6/21/2002	9	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
MW-4-13.5	6/21/2002	13.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
MW-5-5.5	6/21/2002	5.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
MW-5-9.0	6/21/2002	9	1.3	0.0083	<0.005	<0.005	<0.005	<0.5	--	--	--	--	--	--	--
MW-5-19.0	6/21/2002	19	18	0.0071	<0.005	0.014	0.019	<0.5	--	--	--	--	--	--	--
D-1-4.0	5/6/2004	4	<4.8	<0.024	<0.024	<0.024	0.17	0.77	--	--	--	--	--	--	7.5
D-2-4.0	5/6/2004	4	1,900	1.7	<1.0	21	57	5.80	--	--	--	--	--	--	7.3
D-3-4.0	5/6/2004	4	110	<0.50	<0.50	3.1	<0.50	0.65	--	--	--	--	--	--	8.7
SB-4-5	6/15/2005	5	<1.0	0.0072	<0.0050	<0.0050	<0.0050	0.13	0.53	<0.010	<0.0050	<0.0050	--	--	--
SB-4-10	6/15/2005	10	2.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.020	<0.010	<0.0050	<0.0050	--	--	--
SB-4-15	6/15/2005	15	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	--	--	--
SB-4-20	6/15/2005	20	23	<0.025	<0.025	0.056	0.10	0.061	0.25	<0.050	<0.025	<0.025	--	--	--
SB-5-5	6/15/2005	5	<5.0	<0.025	<0.025	<0.025	<0.025	<0.025	2.3	<0.050	<0.025	<0.025	--	--	--
SB-5-10	6/15/2005	10	<4.9	<0.024	<0.024	<0.024	<0.024	<0.024	3.3	<0.049	<0.024	<0.024	--	--	--
SB-5-13	6/15/2005	13	9.3	<0.024	<0.024	0.030	0.040	<0.024	0.14	<0.049	<0.024	<0.024	--	--	--
SB-5-15	6/15/2005	15	8.6	<0.0050	<0.0050	0.20	<0.0050	0.065	0.50	<0.010	<0.0050	<0.0050	--	--	--
SB-6-5	6/15/2005	5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.030	0.13	<0.010	<0.0050	<0.0050	--	--	--
SB-6-10	6/15/2005	10	<1.0	<0.0050	<0.0050	<0.0050	0.0064	0.0068	0.49	<0.010	<0.0050	<0.0050	--	--	--
SB-6-15	6/15/2005	15	<4.8	<0.024	<0.024	<0.024	<0.024	0.13	9.3	<0.048	<0.024	<0.024	--	--	--
SB-6-17	6/15/2005	17	<4.9	<0.025	<0.025	<0.025	<0.025	<0.025	3.1	<0.049	<0.025	<0.025	--	--	--
SB-8-5	6/16/2005	5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	0.011	<0.010	<0.0050	<0.0050	--	--	--
SB-8-10	6/16/2005	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1.6	<0.010	<0.0050	<0.0050	--	--	--
SB-8-12	6/16/2005	12	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.014	0.30	<0.010	<0.0050	<0.0050	--	--	--
SB-8-15	6/16/2005	15	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.23	0.38	<0.010	<0.0050	<0.0050	--	--	--

TABLE 3

HISTORICAL SOIL ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)
EW-1-5	4/5/2006	5	0.232	<0.00200	<0.00200	<0.00200	<0.00500	0.0497	0.848	<0.00200	<0.00500	<0.00200	---	---	---
EW-1-10	4/5/2006	10	0.803	0.00603	<0.00200	0.00581	<0.00500	0.320	0.376	<0.00200	<0.00500	<0.00200	---	---	---
EW-1-12	4/5/2006	12	0.920	0.00496	<0.00200	0.00637	0.0270	0.172	0.502	<0.00200	<0.00500	<0.00200	---	---	---
EW-2-5	4/6/2006	5	0.158	<0.00200	<0.00200	<0.00200	<0.00500	<0.00200	<0.0500	<0.00200	<0.00500	<0.00200	---	---	---
EW-2-10	4/6/2006	10	0.488	<0.00200	<0.00200	<0.00200	<0.00500	<0.00200	<0.0500	<0.00200	<0.00500	<0.00200	---	---	---
EW-2-12	4/6/2006	12	0.715	0.00532	<0.00240	<0.00200	<0.00500	<0.00300	<0.0500	<0.00200	<0.00500	<0.00200	---	---	---
T-1	11/13/2012	12	<0.098	<0.0020	<0.0020	<0.0020	<0.0039	<0.0049	1.2	---	---	---	<0.0020	<0.0020	---
T-2	11/13/2012	12	<0.10	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	0.16	---	---	---	<0.0020	<0.0020	---
T-3	11/13/2012	12	<0.099	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.099	---	---	---	<0.0020	<0.0020	---
T-4	11/13/2012	12	<0.096	<0.0019	<0.0019	<0.0019	<0.0038	<0.0048	<0.096	---	---	---	<0.0019	<0.0019	---
DP-1	11/13/2012	4.5	1.300	<2.0	<2.0	<2.0	13	<5.0	<100	---	---	---	<2.0	<2.0	---
DP-2	11/13/2012	4	0.89	0.020	<0.0085	0.10	0.053	0.42	<0.43	---	---	---	<0.0085	<0.0085	---
DP-3	11/13/2012	4.5	0.27	<0.0020	<0.0020	<0.0020	<0.0040	0.032	<0.099	---	---	---	<0.0020	<0.0020	---
P-1	11/13/2012	4	<0.099	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.099	---	---	---	<0.0020	<0.0020	---
P-2	11/13/2012	4	<0.096	<0.0019	<0.0019	<0.0019	<0.0039	<0.0048	<0.096	---	---	---	<0.0019	<0.0019	---
P-3	11/13/2012	4.5	<0.10	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.10	---	---	---	<0.0020	<0.0020	---
P-4	11/13/2012	4.5	0.47	<0.0020	<0.0020	0.0025	<0.0039	0.032	0.18	---	---	---	<0.0020	<0.0020	---
P-5	11/13/2012	4	0.33	<0.0020	<0.0020	<0.0020	<0.0040	0.10	<0.10	---	---	---	<0.0020	<0.0020	---
<i>Shallow Soil (≤10 fbg) :</i>			500	1.2	9.3	4.7	11	8.4	110	NA	NA	NA	0.91	0.51	320
<i>Deep Soil (>10 fbg) ESL :</i>			2,400	1.2	9.3	4.7	11	8.4	110	NA	NA	NA	0.91	0.51	320

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before February 20, 2001, analyzed by EPA Method 8015.
 BTX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; before February 20, 2001, analyzed by EPA Method 8020.
 MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B; before February 20, 2001, analyzed by EPA Method 8020 unless otherwise noted.
 TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
 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

TABLE 3

HISTORICAL SOIL ANALYTICAL DATA
 SHELL-BRANDED SERVICE STATION
 2120 MONTANA STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (fbg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Lead (mg/kg)
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1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B

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

Lead analyzed by EPA Method 6010B; before May 6, 2004 analyzed according to Title 22

fbg = Feet below grade

mg/kg = Milligrams per kilogram

-- = Not analyzed

<x = Not detected at reporting limit x

ESL = Environmental screening level

NA = No applicable ESL

Results in bold exceed ESL

a = Lead results reported are based on a composite sample of D-1, D-2, and D-3

b = Analyzed by EPA Method 8260B

c = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is not a current or potential source of drinking water. Commercial land use. Ref. Tables B and D of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, Interim Final - November 2007 (Revised May 2008) - Updated May 2013.

TABLE 4
 HISTORICAL SOIL VAPOR ANALYTICAL DATA
 SHELL-BRANDED SERVICE STATION
 2120 MONTANA STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (ftg)	TPHg (µg/m3)	B (µg/m3)	T (µg/m3)	E (µg/m3)	X (µg/m3)	MTBE (µg/m3)	TBA (µg/m3)	Naphthalene (µg/m3)	Helium (%v)	Isobutane (TIC) (µg/m3)	Propane (µg/m3)	Butane (µg/m3)
SV-D-5.0	8/24/2005	5	22,000	<130	<150	<170	<170	<140	<600	—	—	—	—	—
SV-D-5.0	7/30/2007	5	<21,000	<2.4	310	25	106	<11	<9.3	<20	—	6.5	<2,800	<3,600
SV-D-5'	4/22/2009	5	<9,800	<2.7	<3.2	<3.7	<15	<12	<10	—	0.0553	—	—	—
SV-D-10.0	8/24/2005	10	16,000,000	480	<510	<590	<590	<490	<2,000	—	—	—	—	—
SV-D-10.0	7/30/2007	10	27,000	7.5	1,900	33	109	<12	<9.7	<21	—	ND	<2,900	<3,800
SV-D-10'	4/22/2009	10	<9,500	<2.7	<3.1	<3.6	<14	<12	<10	—	0.409	—	—	—
SV-D-10'- DUP ^a	4/22/2009	10	<9,300	<2.6	<3.1	<3.5	<14	<12	<9.8	—	0.0843	—	—	—
SV-E-5.0	8/24/2005	5	25,000	<6.4	25	<8.7	<8.7	<7.2	<30	—	—	—	—	—
SV-E-5.0 DUP ^a	8/24/2005	5	10,000	<6.4	<7.5	<8.7	<8.7	<7.2	<30	—	—	—	—	—
SV-E-5.0	7/30/2007	5	<20,000	4.4	1,100	32	115	<11	<9	<19	—	ND	<2,700	<3,500
SV-E-5.0 DUP ^a	7/30/2007	5	<23,000	4.4	1,200	37	137	<12	<10	<22	—	26	<3,000	<4,000
SV-E-5'	4/22/2009	5	<10,000	<2.8	<3.4	<3.9	<15	<13	<11	—	0.150	—	—	—
SV-E-10.0	8/24/2005	10	78,000,000	46,000	<7,800	<9,000	<9,000	<7,500	<31,000	—	—	—	—	—
SV-E-10.0	7/30/2007	10	8,700,000	1,200	2,500	<1,100	3,600	<3,700	<3,100	<6,800	—	ND	<3,100	<4,100
SV-E-10'	4/22/2009	10	60,000,000	<6,700	41,000	<9,100	<36,000	<30,000	<25,000	—	0.0506	—	—	—
Trip Blank	8/24/2005		<4.1	<6.4	<7.5	<8.7	<8.7	<7.2	<30	—	—	—	—	—
Trip Blank	7/30/2007		<14,000	<1.6	<1.9	<2.2	<6.5	<7.2	<6.1	<13	—	ND	<1,800	<2,400
Trip Blank	4/22/2009		<5,700	<1.6	<1.9	<2.2	<8.7	<7.2	<6.1	—	—	—	—	—
Residential Land Use ESL ^b :			150,000	42	160,000	490	52,000	4,700	NA	36	NA	Concentration in the tracer gas ^c		
Commercial/Industrial Land Use ESL ^b :			1,200,000	420	1,300,000	4,900	440,000	47,000	NA	360	NA	356,000	72,130	11,410

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by modified EPA Method TO-3 GC/FID; before 4/22/09, analyzed by EPA Method TO-3 (M) GC-13.
 BTEX = Benzene, toluene, ethylbenzene and total xylenes analyzed by modified EPA Method TO-15 GC/FID Full Scan; before 4/22/09, analyzed by EPA Method TO-15 GC/MS K.

MTBE = Methyl tertiary-butyl ether analyzed by modified EPA Method TO-15 GC/FID Full Scan; before 4/22/09, analyzed by EPA Method TO-15 GC/MS K.
 TBA = Tertiary-butyl alcohol analyzed by modified EPA Method TO-15 GC/FID Full Scan; before 4/22/09, analyzed by EPA Method TO-15 GC/MS K.
 Naphthalene analyzed by EPA Method TO-15 GC/MS K

TABLE 4
HISTORICAL SOIL VAPOR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Isobutane (TIC) = Tentatively identified compound via EPA Method TO-15 GC/MS

Propane and butane analyzed by ASTM Method D-2820.

Helium analyzed by modified EPA Method ASTM D-1946 GC

fbg = feet below grade

µg/m³ = Micrograms per cubic meter

%v = Percentage by volume

<x = Not detected at or above reporting limit x

--- = Not analyzed

ND = Not detected during GC/MS library search for tentatively identified compound.

ESL = Environmental screening level

NA = No applicable ESL

a = Field duplicate

b = San Francisco Bay Regional Water Quality Control Board ESLs for shallow soil gas (Table E of Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, Interim Final - November 2007 [Revised May 2008] - Updated May 2013).

c = Tracer gas compound (shaving cream) previously sampled for trace compounds.

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)
MW-1	03/19/2001	—	—	—	—	—	—	—	—	—	—	159.59	12.14	147.45	—
MW-1	03/23/2001	16,600	753	1,720	407	2,330	27,500	—	—	—	—	159.59	12.25	147.34	—
MW-1	05/31/2001	<20,000	1,000	920	490	2,000	54,000	—	—	—	—	159.59	12.22	147.37	—
MW-1	06/27/2001	—	—	—	—	—	—	—	—	—	—	159.59	13.00 a	—	—
MW-1	07/09/2001	—	—	—	—	—	—	—	—	—	—	159.59	13.17	146.67	0.31
MW-1	09/25/2001	—	—	—	—	—	—	—	—	—	—	159.59	14.27	145.66	0.43
MW-1	11/20/2001	—	—	—	—	—	—	—	—	—	—	159.59	13.49	146.14	0.05
MW-1	12/05/2001	—	—	—	—	—	—	—	—	—	—	159.59	11.32	148.31	0.05
MW-1	03/01/2002	—	—	—	—	—	—	—	—	—	—	159.59	13.22	146.56	0.24
MW-1	06/06/2002	—	—	—	—	—	—	—	—	—	—	159.59	12.99	147.00	0.50
MW-1	07/16/2002	—	—	—	—	—	—	—	—	—	—	159.59	13.37	146.22	—
MW-1	09/06/2002	—	—	—	—	—	—	—	—	—	—	159.57	13.30	146.70	0.54
MW-1	12/12/2002	—	—	—	—	—	—	—	—	—	—	159.57	13.78	146.61	1.03
MW-1	03/31/2003	—	—	—	—	—	—	—	—	—	—	159.57	11.21	148.38	0.03
MW-1	06/30/2003	7,800	<25	37	<25	380	2,000	—	—	—	—	159.57	12.20	147.37	—
MW-1	09/09/2003	—	—	—	—	—	—	—	—	—	—	159.08	15.70	145.28	2.38
MW-1	12/29/2003	—	—	—	—	—	—	—	—	—	—	159.08	11.25	147.89	0.07
MW-1	03/17/2004	—	—	—	—	—	—	—	—	—	—	159.08	11.80	147.40	0.15
MW-1	05/24/2004	—	—	—	—	—	—	—	—	—	—	159.08	12.42	146.71	0.06
MW-1	09/17/2004	8,000	530	380	330	960	1,100	4,100	<20	<20	<20	159.08	15.95	143.13	—
MW-1	12/06/2004	2,800	150	<5.0	120	120	300	—	—	—	—	159.08	13.15	145.93	—
MW-1	03/02/2005	13,000	490	710	360	2,200	5,000	—	—	—	—	159.08	12.14	146.94	—
MW-1	06/10/2005	5,600	210	120	120	910	3,100	—	—	—	—	159.08	—	—	<0.01
MW-1	09/01/2005	<1,300	73	<13	30	42	2,400	13,000	<50	<50	<50	159.08	11.71	147.37	—
MW-1	11/16/2005	4,150	62.7	10.9	45.2	98.9	845	—	—	—	—	159.08	11.71	147.37	—
MW-1 c	03/03/2006	<50.0	<0.500	<0.500	<0.500	<0.500	0.790	<10.0	—	—	—	159.08	13.37	145.71	—
MW-1	05/12/2006	3,430	80.0	0.530	26.8	71.9	154	1,040	—	—	—	159.08	17.41	141.67	—
MW-1	09/05/2006	5,390	24.8	2.44	6.69	22.2	106	4,860	<0.500	<0.500	<0.500	159.08	12.12	146.96	—
MW-1	12/18/2006	6,800	120	28	110	840	1,100	5,400	—	—	—	159.08	10.74	148.34	—
MW-1	03/21/2007	Well inaccessible	—	—	—	—	—	—	—	—	—	159.08	—	—	—

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to		SPH
													Water (ft TOC)	Elevation (ft MSL)	
MW-1	06/14/2007	6,200	18	<5.0	11	4.6 e	68	1,800	--	--	--	159.08	19.82	139.26	--
MW-1	08/27/2007	2,700 f	13	<5.0	3.9 e	5.6 e	54	1,200	<10	<10	<10	159.08	12.20	146.88	--
MW-1	11/29/2007	2,600 f	20	1.9 e	8.3	29.4	350	4,100	--	--	--	159.08	11.68	147.40	--
MW-1	03/21/2008	4,600	42	<5.0	120	94	300	3,200	--	--	--	159.08	11.59	147.49	--
MW-1	05/29/2008	1,800	11	<5.0	<5.0	<5.0	150	3,900	--	--	--	159.08	11.87	147.21	--
MW-1	08/29/2008	2,400	42	<5.0	23	<5.0	320	4,700	<10	<10	<10	159.08	12.33	146.75	--
MW-1	12/29/2008	2,700	30	<5.0	28	45	460	3,300	--	--	--	159.08	11.21	147.87	--
MW-1	03/05/2009	2,000	15	<5.0	<5.0	66	83	980	--	--	--	159.08	8.98	150.10	--
MW-1	05/27/2009	2,100	25	<1.0	69	52	220	2,500	--	--	--	159.08	11.71	147.37	--
MW-1	12/28/2009	1,500	8.5	<2.0	8.8	7.4	140	1,800	<4.0	<4.0	<4.0	159.08	11.13	147.95	--
MW-1	06/02/2010	2,100	22	<2.0	73	51	140	2,600	--	--	--	159.08	11.10	147.98	--
MW-1	12/28/2010	3,700	26	<2.0	69	260	100	1,400	<4.0	<4.0	<4.0	159.08	9.95	149.13	--
MW-1	06/20/2011	2,000	11	<0.50	93	120	64	1,400	--	--	--	159.08	11.40	147.68	--
MW-1	12/13/2011	1,100	1.14	<0.500	2.55	3.58	36.0	530	<0.500	<0.500	<0.500	159.08	12.17	146.91	--
MW-1	05/30/2012	870	1.8	<1.0	9.9	5.7	25	810	--	--	--	159.08	11.56	147.52	--
MW-1	02/20/2013	270	<0.50	<0.50	<0.50	<1.0	3.7	200	<0.50	<0.50	<0.50	159.08	11.28	147.80	--
MW-2	03/19/2001	--	--	--	--	--	--	--	--	--	--	158.03	11.60	146.43	--
MW-2	03/23/2001	4,450	280	41.0	62.1	63.0	16,600	--	--	--	--	158.03	11.76	146.27	--
MW-2	05/31/2001	<20,000	820	<200	<200	<200	63,000	--	--	--	--	158.03	11.40	146.63	--
MW-2	06/27/2001	<50,000	610	4.0	13	9.2	47,000	--	--	--	--	158.03	12.65	145.38	--
MW-2	09/25/2001	<2,000	41	<20	<20	<20	6,400	--	--	--	--	158.03	12.89	145.14	--
MW-2	12/05/2001	<2,000	74	<20	<20	<20	8,400	--	--	--	--	158.03	10.40	147.63	--
MW-2	03/01/2002	<1,000	<10	<10	<10	<10	2,900	--	--	--	--	158.03	11.52	146.51	--
MW-2	06/06/2002	<5,000	210	<50	<50	<50	23,000	--	--	--	--	158.03	12.15	145.88	--
MW-2	07/16/2002	--	--	--	--	--	--	--	--	--	--	158.03	12.25	145.78	--
MW-2	09/06/2002	<2,000	56	<20	<20	<20	11,000	--	--	--	--	158.01	12.44	145.57	--
MW-2	12/12/2002	<2,500	80	<25	<25	<25	13,000	--	--	--	--	158.01	12.53	145.48	--
MW-2	03/31/2003	<5,000	230	1,200	95	150	13,000	--	--	--	--	158.01	11.98	146.03	--
MW-2	06/30/2003	<12,000	780	<120	170	250	9,000	--	--	--	--	158.01	12.10	145.91	--

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)
MW-2	09/09/2003	140,000	4,600	40,000	4,800	32,000	11,000	—	—	—	—	158.01	12.94	145.07	—
MW-2	12/29/2003	220,000	240	4,800	2,900	19,000	1,000	—	—	—	—	158.01	11.20	146.81	—
MW-2	03/17/2004	25,000	170	390	280	1,400	1,500	—	—	—	—	158.01	11.40	146.61	—
MW-2	05/24/2004	140,000	<25	220	1,200	6,800	320	—	—	—	—	158.01	12.28	145.73	—
MW-2	09/17/2004	64,000	2,900	230	2,300	9,700	6,300	4,100	<100	<100	<100	158.01	12.90	145.11	—
MW-2	12/06/2004	47,000	1,200	46	1,300	6,000	3,900	—	—	—	—	158.01	13.02	144.99	—
MW-2	03/02/2005	85,000	1,600	81	1,900	6,900	2,500	—	—	—	—	158.01	11.06	146.95	—
MW-2	06/10/2005	100,000	450	<25	440	800	300	—	—	—	—	158.01	11.71	146.30	—
MW-2	09/01/2005	140,000 g	490	<25	550	850	110	1,900	<100	<100	<100	158.01	12.11	145.90	—
MW-2	11/16/2005	473,000 d	776	18.7	1,300	2,730	374	—	—	—	—	158.01	12.15	145.86	—
MW-2 c	03/03/2006	4,830	6.25	2.29	14.6	5.45	106	228	—	—	—	158.01	11.40	146.61	—
MW-2	05/12/2006	7,610	1,200	27.9	858	396	688	681	—	—	—	158.01	14.22	143.79	—
MW-2	09/05/2006	84,000	683	10.2	314	300	96.7	1,250	<0.500	<0.500	<0.500	158.01	12.20	145.81	—
MW-2	12/18/2006	19,000	230	6.2	130	64	94	1,600	—	—	—	158.01	11.03	146.98	—
MW-2	03/21/2007	30,000	380	31	460	290	95	1,700	—	—	—	158.01	11.75	146.26	—
MW-2	06/14/2007	Well inaccessible										158.01	—	—	—
MW-2	08/27/2007	83,000 f	220	8.7 e	99	24.5 e	<10	980	<20	<20	<20	158.01	12.54	145.47	—
MW-2	11/29/2007	23,000 f	28	<10	20	<10	<10	1,200	—	—	—	158.01	11.77	146.24	—
MW-2	03/21/2008	Well inaccessible										158.01	—	—	—
MW-2	05/29/2008	14,000	130	14	78	6.8	130	1,000	—	—	—	158.01	12.11	145.90	—
MW-2	08/29/2008	14,000	120	10	23	6.6	60	810	<10	<10	<10	158.01	12.32	145.69	—
MW-2	12/29/2008	33,000	110	<10	15	<10	58	890	—	—	—	158.01	11.61	146.40	—
MW-2	03/05/2009	22,000	250	55	130	60	130	1,200	—	—	—	158.01	9.60	148.41	—
MW-2	05/27/2009	11,000	150	20	110	49	110	740	—	—	—	158.01	12.08	145.93	—
MW-2	12/28/2009	20,000	120	9.5	16	11	85	720	<10	<10	<10	158.01	11.79	146.22	—
MW-2	06/02/2010	59,000	100	<20	36	<20	75	600	—	—	—	158.01	11.92	146.09	—
MW-2	12/28/2010	9,100	120	8.9	52	26	50	700	<10	<10	<10	158.01	10.84	147.17	—
MW-2	06/20/2011	12,000	36	8.8	28	21	68	570	—	—	—	158.01	12.34	145.67	—
MW-2	12/13/2011	6,000	21.9	2.15	2.98	4.19	27.6	307	<0.500	<0.500	<0.500	158.01	12.88	145.13	—
MW-2	05/30/2012	6,100	40	13	14	29	<5.0	550	—	—	—	158.01	12.71	145.30	—

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)
MW-2	02/20/2013	5,300	34	6.7	16	28	22	380	<1.3	<1.3	<1.3	158.01	12.03	145.98	—
MW-3	03/19/2001	—	—	—	—	—	—	—	—	—	—	161.13	11.42	149.71	—
MW-3	03/23/2001	<50.0	<0.500	<0.50	<0.500	<0.500	1.26	—	—	—	—	161.13	11.42	149.71	—
MW-3	05/31/2001	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	161.13	13.00	148.13	—
MW-3	06/27/2001	<50	<0.50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	161.13	12.32	148.81	—
MW-3	09/25/2001	<50	<0.50	<0.50	<0.50	<0.50	<0.50	—	—	—	—	161.13	12.50	148.63	—
MW-3	12/05/2001	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	161.13	10.13	151.00	—
MW-3	03/01/2002	<50	<0.50	<0.50	<0.50	0.73	<5.0	—	—	—	—	161.13	11.63	149.50	—
MW-3	06/06/2002	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	161.13	11.55	149.58	—
MW-3	07/16/2002	—	—	—	—	—	—	—	—	—	—	161.13	11.72	149.41	—
MW-3	09/06/2002	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	161.11	12.24	148.87	—
MW-3	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	<5.0	—	—	—	—	161.11	12.18	148.93	—
MW-3	03/31/2003	<50	<0.50	<0.50	<0.50	<1.0	0.78	—	—	—	—	161.11	11.94	149.17	—
MW-3	06/30/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	—	—	—	—	161.11	12.50	148.61	—
MW-3	09/09/2003	<50	<0.50	<0.50	<0.50	<1.0	<0.50	—	—	—	—	161.11	12.55	148.56	—
MW-3	12/29/2003	<50	<0.50	<0.50	<0.50	<1.0	0.70	—	—	—	—	161.11	10.90	150.21	—
MW-3	03/17/2004	<50	<0.50	<0.50	<0.50	<1.0	2.1	—	—	—	—	161.11	11.63	149.48	—
MW-3	05/24/2004	<50	<0.50	<0.50	<0.50	1.0	0.96	—	—	—	—	161.11	11.32	149.79	—
MW-3	09/17/2004	<50	<0.50	<0.50	<0.50	1.0	2.6	<5.0	<2.0	<2.0	<2.0	161.11	12.13	148.98	—
MW-3	12/06/2004	<50	<0.50	<0.50	<0.50	<1.0	6.1	—	—	—	—	161.11	12.28	148.83	—
MW-3	03/02/2005	<50	<0.50	<0.50	<0.50	<1.0	2.4	—	—	—	—	161.11	10.42	150.69	—
MW-3	06/10/2005	<50	<0.50	<0.50	<0.50	<1.0	1.6	—	—	—	—	161.11	11.15	149.96	—
MW-3	09/01/2005	<50	<0.50	<0.50	<0.50	<1.0	0.54	<5.0	<2.0	<2.0	<2.0	161.11	12.55	148.56	—
MW-3	11/16/2005	<50.0	<0.500	<0.500	<0.500	<0.500	0.570	—	—	—	—	161.11	12.04	149.07	—
MW-3 c	03/03/2006	16,000 d	191	107 d	127	997 d	1,090 d	—	—	—	—	161.11	10.36	150.75	—
MW-3	05/12/2006	<50.0	<0.500	<0.500	<0.500	<0.500	1.45	—	—	—	—	161.11	12.24	148.87	—
MW-3	09/05/2006	<50.0	<0.500	<0.500	<0.500	<0.500	1.62	<10.0	<0.500	<0.500	<0.500	161.11	12.52	148.59	—
MW-3	12/18/2006	<50	<0.50	<0.50	<0.50	<1.0	0.88	—	—	—	—	161.11	11.00	150.11	—
MW-3	03/21/2007	<50	<0.50	<0.50	<0.50	<1.0	<1.0	—	—	—	—	161.11	12.10	149.01	—

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to		SPH
													Water (ft TOC)	GW Elevation (ft MSL)	
MW-3	06/14/2007	100	<0.50	<1.0	<1.0	<1.0	2.4	—	—	—	—	161.11	12.08	149.03	—
MW-3	08/27/2007	<50 f	<0.50	<1.0	<1.0	<1.0	1.3	<10	<2.0	<2.0	<2.0	161.11	12.54	148.57	—
MW-3	11/29/2007	<50 f	<0.50	<1.0	<1.0	<1.0	0.52 e	—	—	—	—	161.11	12.09	149.02	—
MW-3	03/21/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	—	—	—	—	161.11	12.20	148.91	—
MW-3	05/29/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	—	—	—	—	161.11	12.12	148.99	—
MW-3	08/29/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	161.11	12.49	148.62	—
MW-3	12/29/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	—	—	—	—	161.11	11.40	149.71	—
MW-3	03/05/2009	<50	<0.50	<1.0	<1.0	<1.0	<1.0	—	—	—	—	161.11	9.50	151.61	—
MW-3	05/27/2009	<50	<0.50	<1.0	<1.0	<1.0	<1.0	—	—	—	—	161.11	11.83	149.28	—
MW-3	12/28/2009	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	161.11	11.68	149.43	—
MW-3	06/02/2010	<50	<0.50	<1.0	<1.0	<1.0	<1.0	—	—	—	—	161.11	11.71	149.40	—
MW-3	12/28/2010	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	161.11	10.80	150.31	—
MW-3	06/20/2011	<50	<0.50	<0.50	<0.50	<1.0	<1.0	—	—	—	—	161.11	11.95	149.16	—
MW-3	12/13/2011	<50	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	161.11	12.00	149.11	—
MW-3	05/30/2012	<50	<0.50	<0.50	<0.50	<1.0	<0.50	—	—	—	—	161.11	12.22	148.89	—
MW-3	02/20/2013	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	161.11	11.74	149.37	—
MW-4	07/10/2002	—	—	—	—	—	—	—	—	—	—	—	13.19	—	—
MW-4	07/16/2002	800	1.1	1.1	2.6	2.4	450	—	—	—	—	—	13.56	—	—
MW-4	09/06/2002	1,100	3.0	1.8	8.0	4.6	110	—	—	—	—	160.09	13.67	146.42	—
MW-4	12/12/2002	130	<0.50	<0.50	<0.50	<0.50	940	—	—	—	—	160.09	14.06	146.03	—
MW-4	03/31/2003	<250	<2.5	<2.5	<2.5	<5.0	500	—	—	—	—	160.09	13.69	146.40	—
MW-4	06/30/2003	3,100	5.3	<5.0	7.1	<10	420	—	—	—	—	160.09	14.12	145.97	—
MW-4	09/09/2003	1,400	2.4	2.0	2.6	3.2	140	—	—	—	—	160.09	14.92	145.17	—
MW-4	12/29/2003	2,700	10	6.2	20	11	420	—	—	—	—	160.09	12.71	147.38	—
MW-4	03/17/2004	1,900	6.9	3.0	33	22	290	—	—	—	—	160.09	13.24	146.85	—
MW-4	05/24/2004	1,800	<2.5	<2.5	<2.5	11	44	—	—	—	—	160.09	14.03	146.06	—
MW-4	09/17/2004	3,300	57	10	47	32	310	700	<10	<10	<10	160.09	13.58	146.51	—
MW-4	12/06/2004	4,700	9.4	3.8	34	12	150	—	—	—	—	160.09	14.65	145.44	—
MW-4	03/02/2005	<1,300	<13	<13	<13	<25	150	—	—	—	—	160.09	12.67	147.42	—

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to		SPH
													Water (ft TOC)	GW Elevation (ft MSL)	
MW-4	06/10/2005	2,600	4.1	1.9	25	5.6	61	—	—	—	—	160.09	13.11	146.98	—
MW-4	09/01/2005	4,000 g	<13	<13	22	<25	36	<130	<50	<50	<50	160.09	14.00	146.09	—
MW-4	11/16/2005	4,740	3.23	1.75	12.8	6.06	12.2	—	—	—	—	160.09	13.87	146.22	—
MW-4 c	03/03/2006	79,300 d	649 d	37.2	470 d	326	577 d	—	—	—	—	160.09	12.80	147.29	—
MW-4	05/12/2006	2,750	8.03	<0.500	<0.500	<0.500	244	—	—	—	—	160.09	16.26	143.83	—
MW-4	09/05/2006	2,230	2.04	1.24	<0.500	1.50	95.9	239	<0.500	<0.500	<0.500	160.09	13.92	146.17	—
MW-4	12/18/2006	1,400	4.3	1.7	7.3	2.8	140	—	—	—	—	160.09	12.71	147.38	—
MW-4	03/21/2007	540	0.68	0.51	4.0	<1.0	140	—	—	—	—	160.09	13.35	146.74	—
MW-4	06/14/2007	—	—	—	—	—	—	—	—	—	—	160.09	19.02	141.07	—
MW-4	08/27/2007	880 f,g	0.38 e	<1.0	<1.0	<1.0	8.5	98	<2.0	<2.0	<2.0	160.09	13.92	146.17	—
MW-4	11/29/2007	3,200 f	1.9	1.2	1.9	2.55 e	<1.0	—	—	—	—	160.09	13.50	146.59	—
MW-4	03/21/2008	350	<0.50	<1.0	<1.0	<1.0	8.2	—	—	—	—	160.09	13.45	146.64	—
MW-4	05/29/2008	1,800	1.6	<1.0	1.8	1.5	13	—	—	—	—	160.09	13.73	146.36	—
MW-4	08/29/2008	1,300	1.5	<1.0	1.2	1.3	13	54	<2.0	<2.0	<2.0	160.09	14.08	146.01	—
MW-4	12/29/2008	1,700	1.8	1.4	2.3	1.6	8.9	—	—	—	—	160.09	13.13	146.96	—
MW-4	03/05/2009	1,800	1.6	<1.0	<1.0	<1.0	16	—	—	—	—	160.09	11.12	148.97	—
MW-4	05/27/2009	2,000	4.6	1.8	3.5	2.2	28	—	—	—	—	160.09	13.35	146.74	—
MW-4	12/28/2009	1,100	0.66	<1.0	<1.0	<1.0	7.4	72	<2.0	<2.0	<2.0	160.09	13.35	146.74	—
MW-4	06/02/2010	1,400	1.5	<1.0	1.8	1.0	8.6	—	—	—	—	160.09	13.33	146.76	—
MW-4	12/28/2010	1,100	<0.50	<1.0	<1.0	<1.0	5.8	50	<2.0	<2.0	<2.0	160.09	12.38	147.71	—
MW-4	06/20/2011	90	<0.50	<0.50	<0.50	<1.0	2.8	—	—	—	—	160.09	13.87	146.22	—
MW-4	12/13/2011	290	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	160.09	14.04	146.05	—
MW-4	05/30/2012	110	<0.50	<0.50	<0.50	<1.0	5.0	—	—	—	—	160.09	12.77	147.32	—
MW-4	02/20/2013	86	<0.50	<0.50	<0.50	<1.0	1.3	590	<0.50	<0.50	<0.50	160.09	13.60	146.49	—
MW-5	07/10/2002	—	—	—	—	—	—	—	—	—	—	—	12.22	—	—
MW-5	07/16/2002	6,100	65	7.2	100	130	410	—	—	—	—	—	12.50	—	—
MW-5	09/06/2002	5,900	100	8.1	41	32	230	—	—	—	—	158.25	12.77	145.48	—
MW-5	12/12/2002	4,900	70	5.7	25	17	280	—	—	—	—	158.25	12.71	145.54	—
MW-5	03/31/2003	6,400	61	4.9	23	13	330	—	—	—	—	158.25	11.93	146.32	—

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to		SPH Thickness (ft)
													Water (ft TOC)	GW Elevation (ft MSL)	
MW-5	06/30/2003	3,400	18	<2.5	17	5.5	47	—	—	—	—	158.25	11.97	146.28	—
MW-5	09/09/2003	6,800	46	23	39	42	67	—	—	—	—	158.25	12.44	145.81	—
MW-5	12/29/2003	8,400	44	6.2	36	16	60	—	—	—	—	158.25	11.38	146.87	—
MW-5	03/17/2004	7,100	120	22	42	27	300	—	—	—	—	158.25	11.68	146.57	—
MW-5	05/24/2004	6,100	72	17	34	23	110	—	—	—	—	158.25	12.30	145.95	—
MW-5	09/17/2004	5,700	27	5.3	35	<10	28	<50	<20	<20	<20	158.25	12.15	146.10	—
MW-5	12/06/2004	4,500	11	<5.0	22	<10	7.5	—	—	—	<20	158.25	12.85	145.40	—
MW-5	03/02/2005	6,500	14	<2.5	18	<5.0	6.0	—	—	—	—	158.25	10.83	147.42	—
MW-5	06/10/2005	5,300	19	2.4	17	4.3	7.2	—	—	—	—	158.25	12.00	146.25	—
MW-5	09/01/2005	1,900 g	5.3	<2.5	6.9	<5.0	<2.5	<25	<10	<10	<10	158.25	12.30	145.95	—
MW-5	11/16/2005	3,590	4.66	0.580	7.69	1.45	1.13	—	—	—	—	158.25	12.58	145.67	—
MW-5	03/03/2006	5,760	7.08	0.960	8.46	2.18	2.65	—	—	—	—	158.25	11.15	147.10	—
MW-5	05/12/2006	1,960	3.66	<0.500	1.03	<0.500	1.45	—	—	—	—	158.25	12.55	145.70	—
MW-5	09/05/2006	3,730	4.23	0.780	3.19	0.790	1.77	32.9	<0.500	<0.500	<0.500	158.25	12.70	145.55	—
MW-5	12/18/2006	1,600	5.1	0.66	6.0	3.3	<0.50	—	—	—	—	158.25	11.40	146.85	—
MW-5	03/21/2007	210	1.7	<0.50	<0.50	<1.0	<1.0	—	—	—	—	158.25	12.17	146.08	—
MW-5	06/14/2007	2,300	1.5	<1.0	0.43 e	<1.0	<1.0	—	—	—	—	158.25	13.50	144.75	—
MW-5	08/27/2007	2,500 f,g	3.2	0.41 e	2.8	2.48 e	<1.0	6.8 e	<2.0	<2.0	<2.0	158.25	12.55	145.70	—
MW-5	11/29/2007	2,300 f	7.8	0.45 e	0.75 e	0.60 e	<1.0	—	—	—	—	158.25	11.97	146.28	—
MW-5	03/21/2008	1,400	24	5.5	1.8	2.2	6.6	—	—	—	—	158.25	11.70	146.55	—
MW-5	05/29/2008	1,400	33	2.9	<1.0	3.2	6.9	—	—	—	—	158.25	12.27	145.98	—
MW-5	08/29/2008	960	14	<1.0	<1.0	1.4	4.3	<10	<2.0	<2.0	<2.0	158.25	12.46	145.79	—
MW-5	12/29/2008	1,200	12	<1.0	<1.0	<1.0	<1.0	—	—	—	—	158.25	11.80	146.45	—
MW-5	03/05/2009	1,900	24	2.9	3.7	7.9	<1.0	—	—	—	—	158.25	9.82	148.43	—
MW-5	05/27/2009	1,400	23	1.7	2.0	4.9	4.4	—	—	—	—	158.25	12.34	145.91	—
MW-5	12/28/2009	980	7.5	<1.0	<1.0	<1.0	2.3	<10	<2.0	<2.0	<2.0	158.25	12.18	146.07	—
MW-5	06/02/2010	1,200	12	<1.0	<1.0	3.1	<1.0	—	—	—	—	158.25	12.04	146.21	—
MW-5	12/28/2010	970	5.5	<1.0	<1.0	<1.0	1.3	<10	<2.0	<2.0	<2.0	158.25	11.11	147.14	—
MW-5	06/20/2011	1,400	9.4	0.90	0.99	3.6	2.6	—	—	—	—	158.25	12.54	145.71	—
MW-5	12/13/2011	1,500	6.41	0.640	0.610	1.76	2.53	<10.0	<0.500	<0.500	<0.500	158.25	13.00	145.25	—

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to		SPH Thickness (ft)
													Water (ft TOC)	GW Elevation (ft MSL)	
MW-5	05/30/2012	1,000	3.5	0.66	0.82	<1.0	2.0	—	—	—	—	158.25	12.74	145.51	—
MW-5	02/20/2013	1,700	3.9	0.79	0.85	1.2	2.1	<10	<0.50	<0.50	<0.50	158.25	12.39	145.86	—
TBW-N	09/25/2001 b	120,000	3,200	2,800	4,000	18,000	31,000	—	—	—	—	—	12.25	—	—
TBW-N	11/20/2001	72,000	2,200	3,600	2,600	14,000	35,000	—	—	—	—	—	12.13	—	—
TBW-N	12/05/2001	76,000	1,600	3,200	2,900	15,000	30,000	—	—	—	—	—	11.51	—	—
TBW-N	03/01/2002	91,000	1,200	4,200	2,800	14,000	29,000	—	—	—	—	—	11.88	—	—
TBW-N	06/06/2002	100,000	2,100	8,200	3,400	17,000	18,000	—	—	—	—	—	12.48	—	—
TBW-N	07/16/2002	—	—	—	—	—	—	—	—	—	—	—	12.39	—	—
TBW-N	09/06/2002	69,000	870	4,800	2,300	11,000	17,000	—	—	—	—	161.26	12.36	148.90	—
TBW-N	12/12/2002	Well inaccessible	—	—	—	—	—	—	—	—	—	161.26	—	—	—
TBW-N	12/19/2002	110,000	1,900	13,000	3,100	18,000	19,000	—	—	—	—	161.26	10.82	150.44	—
TBW-N	03/31/2003	62,000	1,600	6,500	2,200	11,000	11,000	—	—	—	—	161.26	10.63	150.63	—
TBW-N	06/30/2003	260,000	7,700	<120	5,800	40,000	8,400	—	—	—	—	161.26	11.51	149.75	—
TBW-N	09/09/2003	—	—	—	—	—	—	—	—	—	—	159.92	11.37	148.64	0.11
TBW-N	12/29/2003	130,000	840	8,200	2,400	18,000	5,400	—	—	—	—	159.92	10.40	149.52	—
TBW-N	03/17/2004	32,000	440	1,500	580	4,500	3,700	—	—	—	—	159.92	10.49	149.44	0.01
TBW-N	05/24/2004	110,000	380	2,600	1,600	11,000	3,100	—	—	—	—	159.92	10.72	149.20	—
TBW-N	09/17/2004	25,000	120	490	570	3,900	490	4,500	<200	<200	<200	159.92	10.80	149.12	—
TBW-N	12/06/2004	15,000	33	11	410	1,500	200	—	—	—	—	159.92	11.00	148.92	—
TBW-N	03/02/2005	7,900	15	<10	120	610	460	—	—	—	—	159.92	10.58	149.34	—
TBW-N	06/10/2005	1,200	<5.0	<5.0	13	25	93	—	—	—	—	159.92	10.68	149.24	—
TBW-N	09/01/2005	3,500 g	<10	<10	86	330	47	1,700	<40	<40	<40	159.92	11.05	148.87	—
TBW-N	11/16/2005	8,830	1.53	1.59	86.6	404	35.0	—	—	—	—	159.92	10.95	148.97	—
TBW-N	03/03/2006	955	<0.500	<0.500	1.25	<0.500	70.4	4,930	—	—	—	159.92	10.31	149.61	—
TBW-N	05/12/2006	706	<0.500	<0.500	5.81	<0.500	14.5	488	—	—	—	159.92	10.73	149.19	—
TBW-N	09/05/2006	1,230	<0.500	<0.500	6.05	2.68	15.3	265	<0.500	<0.500	<0.500	159.92	11.46	148.46	—
TBW-N	12/18/2006	290	0.68	<0.50	<0.50	<1.0	37	3,400	—	—	—	159.92	10.12	149.80	—
TBW-N	03/21/2007	300	<0.50	<0.50	<0.50	<1.0	15	820	—	—	—	159.92	10.67	149.25	—
TBW-N	06/14/2007	530	<0.50	<1.0	<1.0	<1.0	7.7	240	—	—	—	159.92	11.22	148.70	—

TABLE 1

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)
TBW-N	08/27/2007	100 f	0.52	<1.0	<1.0	<1.0	18	40	<2.0	<2.0	<2.0	159.92	11.44	148.48	--
TBW-N	11/29/2007	130 f	0.19 e	<1.0	<1.0	<1.0	7.8	490	--	--	--	159.92	10.58	149.34	--
TBW-N	03/21/2008	56	<0.50	<1.0	<1.0	<1.0	9.3	300	--	--	--	159.92	10.50	149.42	--
TBW-N	05/29/2008	<50	<0.50	<1.0	<1.0	<1.0	4.1	140	--	--	--	159.92	10.66	149.26	--
TBW-N	08/29/2008	54	<0.50	<1.0	<1.0	<1.0	4.3	89	<2.0	<2.0	<2.0	159.92	10.88	149.04	--
TBW-N	12/29/2008	93	<0.50	<1.0	<1.0	<1.0	4.4	740	--	--	--	159.92	10.17	149.75	--
TBW-N	03/05/2009	93	<0.50	<1.0	<1.0	<1.0	6.7	1,900	--	--	--	159.92	8.62	151.30	--
TBW-N	05/27/2009	<250	<2.5	<5.0	<5.0	<5.0	<5.0	160	--	--	--	159.92	10.44	149.48	--
TBW-N	12/28/2009	<50	<0.50	<1.0	<1.0	<1.0	2.5	170	<2.0	<2.0	<2.0	159.92	9.85	150.07	--
TBW-N	06/02/2010	<50	<0.50	<1.0	<1.0	<1.0	2.5	91	--	--	--	159.92	9.76	150.16	--
TBW-N	12/28/2010	63	<0.50	<1.0	<1.0	<1.0	2.6	720	<2.0	<2.0	<2.0	159.92	9.06	150.86	--
TBW-N	06/20/2011	<50	<0.50	<0.50	<0.50	<1.0	1.7	17	--	--	--	159.92	10.00	149.92	--
TBW-N	12/13/2011	<50	<0.500	<0.500	<0.500	<0.500	2.20	<10.0	<0.500	<0.500	<0.500	159.92	9.93	149.99	--
TBW-N	05/30/2012	56	1.1	<0.50	<0.50	1.1	23	18	--	--	--	159.92	10.46	149.46	--
TBW-N	11/13/2012	Well Destroyed										159.92			
EW-1	05/05/2006	--	--	--	--	--	--	--	--	--	--	--	15.42	--	--
EW-1	05/12/2006	5,550	52.9	30.2	86.9	249	939	3,900	<0.500	<0.500	<0.500	--	17.33	--	--
EW-1	09/05/2006	2,700	28.3	1.64	11.8	7.98	325	1,900	<0.500	<0.500	<0.500	158.63	12.44	146.19	--
EW-1	12/18/2006	4,900	140	63	170	790	640	--	--	--	--	158.63	11.00	147.63	--
EW-1	03/21/2007	1,000	32	<2.5	14	48	420	--	--	--	--	158.63	14.61	144.02	--
EW-1	06/14/2007	2,100	14	1.1	5.0	9.3	46	--	--	--	--	158.63	21.00	137.63	--
EW-1	08/27/2007	97 f	<0.50	<1.0	<1.0	0.19 e	3.6	32	<2.0	<2.0	<2.0	158.63	12.80	145.83	--
EW-1	11/29/2007	7,600 f	110	36	190	1,390	470	--	--	--	--	158.63	11.87	146.76	--
EW-1	03/21/2008	7,300	160	14	400	630	640	--	--	--	--	158.63	12.10	146.53	--
EW-1	05/29/2008	3,600	93	6.0	190	124	340	--	--	--	--	158.63	12.09	146.54	--
EW-1	08/29/2008	1,100	15	1.5	78	36	48	190	<2.0	<2.0	<2.0	158.63	12.65	145.98	--
EW-1	12/29/2008	3,200	48	4.2	100	240	180	--	--	--	--	158.63	11.45	147.18	--
EW-1	03/05/2009	2,900	58	2.4	130	220	280	--	--	--	--	158.63	8.48	150.15	--
EW-1	05/27/2009	2,300	74	2.1	59	96	160	--	--	--	--	158.63	11.90	146.73	--

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TOC (ft MSL)	Depth to		SPH
													Water (ft TOC)	GW Elevation (ft MSL)	
EW-1	12/28/2009	2,100	23	<1.0	93	96	94	400	<2.0	<2.0	<2.0	158.63	11.68	146.95	—
EW-1	06/02/2010	1,700	13	<1.0	59	66	51	—	—	—	—	158.63	11.70	146.93	—
EW-1	12/28/2010	2,100	20	<1.0	110	170	45	340	<2.0	<2.0	<2.0	158.63	10.65	147.98	—
EW-1	06/20/2011	890	7.5	<0.50	23	24	31	—	—	—	—	158.63	12.08	146.55	—
EW-1	12/13/2011	850	3.25	<0.500	15.4	9.67	22.4	27.8	<0.500	<0.500	<0.500	158.63	12.62	146.01	—
EW-1	05/30/2012	1,100	4.4	<0.50	13	12	22	—	—	—	—	158.63	12.19	146.44	—
EW-1	02/20/2013	110	<0.50	<0.50	<0.50	<1.0	6.8	71	<0.50	<0.50	<0.50	158.63	11.81	146.82	—
EW-2	05/05/2006	—	—	—	—	—	—	—	—	—	—	—	16.83	—	—
EW-2	05/12/2006	11,400	377	135	335	313	401	1,220	<0.500	<0.500	<0.500	—	15.91	—	—
EW-2	09/05/2006	1,810	41.1	4.52	17.2	74.0	87.8	606	<0.500	<0.500	<0.500	157.51	11.21	146.30	—
EW-2	12/18/2006	3,200	75	33	90	470	130	—	—	—	—	157.51	9.93	147.58	—
EW-2	03/21/2007	61	<0.50	<0.50	<0.50	1.5	18	—	—	—	—	157.51	10.55	146.96	—
EW-2	06/14/2007	570	3.8	<1.0	<1.0	<1.0	10	—	—	—	—	157.51	12.82	144.69	—
EW-2	08/27/2007	320 f	2.6	0.36 e	1.4	6.31 e	10	230	<2.0	<2.0	<2.0	157.51	10.34	147.17	—
EW-2	11/29/2007	72 f	0.83	0.53 e	0.49 e	1.41 e	12	—	—	—	—	157.51	10.80	146.71	—
EW-2	03/21/2008	250	3.5	<1.0	2.7	15.3	62	—	—	—	—	157.51	10.80	146.71	—
EW-2	05/29/2008	280	8.7	1.5	7.8	29.3	46	—	—	—	—	157.51	10.86	146.65	—
EW-2	08/29/2008	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	157.51	9.81	147.70	—
EW-2	12/29/2008	760	21	1.4	17	64	37	—	—	—	—	157.51	10.37	147.14	—
EW-2	03/05/2009	260	5.8	<1.0	8.4	30	38	—	—	—	—	157.51	8.35	149.16	—
EW-2	05/27/2009	580	27	2.4	25	79	71	—	—	—	—	157.51	10.83	146.68	—
EW-2	12/28/2009	780	31	1.6	31	67	51	270	<2.0	<2.0	<2.0	157.51	10.55	146.96	—
EW-2	06/02/2010	1,400	45	3.0	110	160	53	—	—	—	—	157.51	10.63	146.88	—
EW-2	12/28/2010	770	29	1.3	58	82	48	310	<2.0	<2.0	<2.0	157.51	9.57	147.94	—
EW-2	06/20/2011	180	12	<0.50	15	8.3	14	—	—	—	—	157.51	10.98	146.53	—
EW-2	12/13/2011	260	17.4	<0.500	16.3	10.8	12.1	63.3	<0.500	<0.500	<0.500	157.51	11.21	146.30	—
EW-2	05/30/2012	200	8.5	<0.50	9.2	2.3	13	—	—	—	—	157.51	11.23	146.28	—
EW-2	02/20/2013	270	13	<0.50	11	2.7	11	180	<0.50	<0.50	<0.50	157.51	10.70	146.81	—

**GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA**

Well ID	Date	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Depth to		SPH
												Water	GW	
												(ft TOC)	(ft MSL)	Thickness (ft)

Notes:
 TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8015 unless otherwise noted.
 BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8020.
 MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
 TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
 DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
 ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
 TAME = Tertiary-aryl methyl ether analyzed by EPA Method 8260B
 TOC = Top of casing elevation, in feet relative to mean sea level
 GW = Groundwater
 SPH = Separate-phase hydrocarbon
 µg/L = Micrograms per liter
 ft = Feet
 MSL = Mean sea level
 <x = Not detected at reporting limit x
 -- = Not analyzed or available

a = SPHs encountered during purge
 b = Sample analyzed once within hold time, but the analyte concentrations all exceeded the instrument working ranges. The sample was diluted and re-analyzed out of hold time. The diluted analysis is reported because it more accurately reflects the concentrations present.
 c = Several results were above the instrument calibration range and should be considered estimated values. Results from the different VOA vials were not consistent; therefore the highest results were reported.
 d = Concentration exceeds the calibration range and therefore result is semi-quantitative.
 e = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
 f = Analyzed by EPA Method 8015B (M).
 g = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

When SPHs are present, GW elevation is adjusted using the relation:
 Corrected GW elevation = TOC - Depth to water + (0.8 x SPH thickness)

CRA-240733 (18)

TABLE 1

GROUNDWATER DATA
 SHELL-BRANDED SERVICE STATION
 2120 MONTANA STREET, OAKLAND, CALIFORNIA

Well ID	Date	TPHg ($\mu\text{g/L}$)	B ($\mu\text{g/L}$)	T ($\mu\text{g/L}$)	E ($\mu\text{g/L}$)	X ($\mu\text{g/L}$)	MTBE ($\mu\text{g/L}$)	TBA ($\mu\text{g/L}$)	DIPE ($\mu\text{g/L}$)	EIIBE ($\mu\text{g/L}$)	TAME ($\mu\text{g/L}$)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)	SPH Thickness (ft)
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Site wells surveyed February 12, 2002 and June 26, 2002 by Virgil Chavez Land Surveying
 Wells MW-1 and TBW-N surveyed September 23, 2003 by Virgil Chavez Land Surveying
 Wells EW-1 and EW-2 surveyed July 7, 2006 by Virgil Chavez Land Surveying

TABLE 2.

HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
2120 MONTANA STREET, OAKLAND, CALIFORNIA

Sample ID	Date	Depth (ftg)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
SB-1-W	10/27/1999	15	446	4.72	1.57	<0.500	4.53	50.3	—	—	—	—	—	—
SB-2-W	10/27/1999	20	524	10.6	1.47	2.42	2.18	59.4	—	—	—	—	—	—
SB-3-W	10/27/1999	20	2,380	6.75	6.63	46.4	75.2	3,210	—	—	—	—	—	—
SB-4-W	6/15/2005	21-25	6,200	34	140	130	520	74	<25	<10	<10	<10	—	—
SB-5-W	6/15/2005	14-18	28,000	100	<20	890	2,400	200	<200	<80	<80	<80	—	—
SB-6-W	6/15/2005	16-20	<2,500	<25	<25	<25	<50	1,100	15,000	<100	<100	<100	—	—
SB-8-W	6/16/2005	14-18	<50	<0.50	<0.50	<0.50	<1.0	59	66	<2.0	<2.0	<2.0	—	—
TW	11/13/2012	12	210	20	<0.50	<0.50	3.0	4.6	160	—	—	—	<0.50	<0.50
Groundwater ESL^a:			500	27	130	43	100	1,800	18,000	NA	NA	NA	100	77

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before June 15, 2005 analyzed by EPA Method 8015M.
 BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; before June 15, 2005 analyzed by EPA Method 8020.
 MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
 TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
 DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
 ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
 TAME = Tertiary-amy methyl ether analyzed by EPA Method 8260B
 1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
 EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B

ftg = Feet below grade

µg/L = Micrograms per liter

<x = Not detected at reporting limit x

— = Not analyzed

ESL = Environmental screening level

NA = No applicable ESL

Results in bold equal or exceed applicable ESL

a = San Francisco Bay Regional Water Quality Control Board ESL for groundwater where groundwater is not a potential source of drinking water (Tables B and D of Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008] - Updated May 2013).



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BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>SB-1</u>
JOB/SITE NAME	<u>2120 Montana Street, Oakland</u>	DRILLING STARTED	<u>27-Oct-99</u>
LOCATION	<u>2120 Montana Street, Oakland</u>	DRILLING COMPLETED	<u>27-Oct-99</u>
PROJECT NUMBER	<u>242-0733</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hydraulic push</u>	TOP OF CASING ELEVATION	<u>NA</u>
BORING DIAMETER	<u>2"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>M. Gaffney</u>	DEPTH TO WATER (First Encountered)	<u>12.5 ft (27-Oct-99)</u>
REVIEWED BY	<u>A. Le May, RG</u>	DEPTH TO WATER (Static)	<u>NA</u>
REMARKS	<u>Hand Augered to 5 feet</u>		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
						CONCRETE	0.5	<p>Portland Type I/II</p> <p>Bottom of Boring @ 16 ft</p>
		SB-1 5.0	5	SM		@ 5'-gray; dry; 10% silt 80% sand, 10% gravel; low plasticity.		
		SB-1 10.0	10	SP		SAND ; Gray; dry; 10% silt, 80% sand, 10% gravel; high estimated permeability.	10.0	
			15			@ 15'- orange; 10% silt, 90% solidified coarse grained sand; medium estimated permeability.	16.0	

WELL LOG (TPH-G) G:\0488906-1\GINT\GINT.GPJ DEFAULT.GDT 3/30/00

ATTACHMENT 6



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BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>SB-2</u>
JOB/SITE NAME	<u>2120 Montana Street, Oakland</u>	DRILLING STARTED	<u>27-Oct-99</u>
LOCATION	<u>2120 Montana Street, Oakland</u>	DRILLING COMPLETED	<u>27-Oct-99</u>
PROJECT NUMBER	<u>242-0733</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hydraulic push</u>	TOP OF CASING ELEVATION	<u>NA</u>
BORING DIAMETER	<u>2"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>M. Gaffney</u>	DEPTH TO WATER (First Encountered)	<u>16.5 ft (27-Oct-99)</u>
REVIEWED BY	<u>A. Le May, RG</u>	DEPTH TO WATER (Static)	<u>NA</u>
REMARKS	<u>Hand Augered to 5 feet</u>		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0.5			CONCRETE Silty SAND; gray green; dry; 5% clay, 25% silt, 65% sand, 5% gravel; medium plasticity; high estimated permeability.	0.5	
		SB-2 5.0		5			@ 5'-gray; 30% silt, 65% sand, 5% gravel; high estimated permeability.		
		SB-2 8.0		10	SM		@ 12'-gray green; moist; 30% silt, 70% sand; medium estimated permeability.		
		SB-2 16		15			@ 15'-brown; medium estimated permeability.		
		SB-2 20		20			@ 16.5'- wet; medium estimated permeability.	20.0	
									Bottom of Boring @ 20 ft

WELL LOG (TPH-G) G:\OAS300-1\GINT\GINT.GPJ DEFAULT.GDT 3/30/00



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BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>SB-3</u>
JOB/SITE NAME	<u>2120 Montana Street, Oakland</u>	DRILLING STARTED	<u>27-Oct-99</u>
LOCATION	<u>2120 Montana Street, Oakland</u>	DRILLING COMPLETED	<u>27-Oct-99</u>
PROJECT NUMBER	<u>242-0733</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hydraulic push</u>	TOP OF CASING ELEVATION	<u>NA</u>
BORING DIAMETER	<u>2"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>M. Gaffney</u>	DEPTH TO WATER (First Encountered)	<u>16.0 ft (27-Oct-99)</u> ▽
REVIEWED BY	<u>A. Le May, RG</u>	DEPTH TO WATER (Static)	<u>NA</u> ▽
REMARKS	<u>Hand Augered to 5 feet</u>		

TPHg (mg/kg)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
			0.5			CONCRETE	0.5	
		SB-3 5.0	5			Silty SAND; gray brown; dry; 5% clay, 15% silt, 65% sand, 10% gravel; high estimated permeability.	0.5	
				SM		@ 5'-brown; 5% clay, 30% silt, 60% sand, 5% gravel; medium estimated permeability.		
		SB-3 10.0	10			@ 9'-gray; dry; 20% silt, 80% sand; low estimated permeability.		← Portland Type I/II
		SB-3 15.0	15			Gravelly SAND; (ML); brown; dry; 10% silt, 60% sand, 30% gravel; medium estimated permeability.	15.0	
			20	SP			20.0	Bottom of Boring @ 20 ft

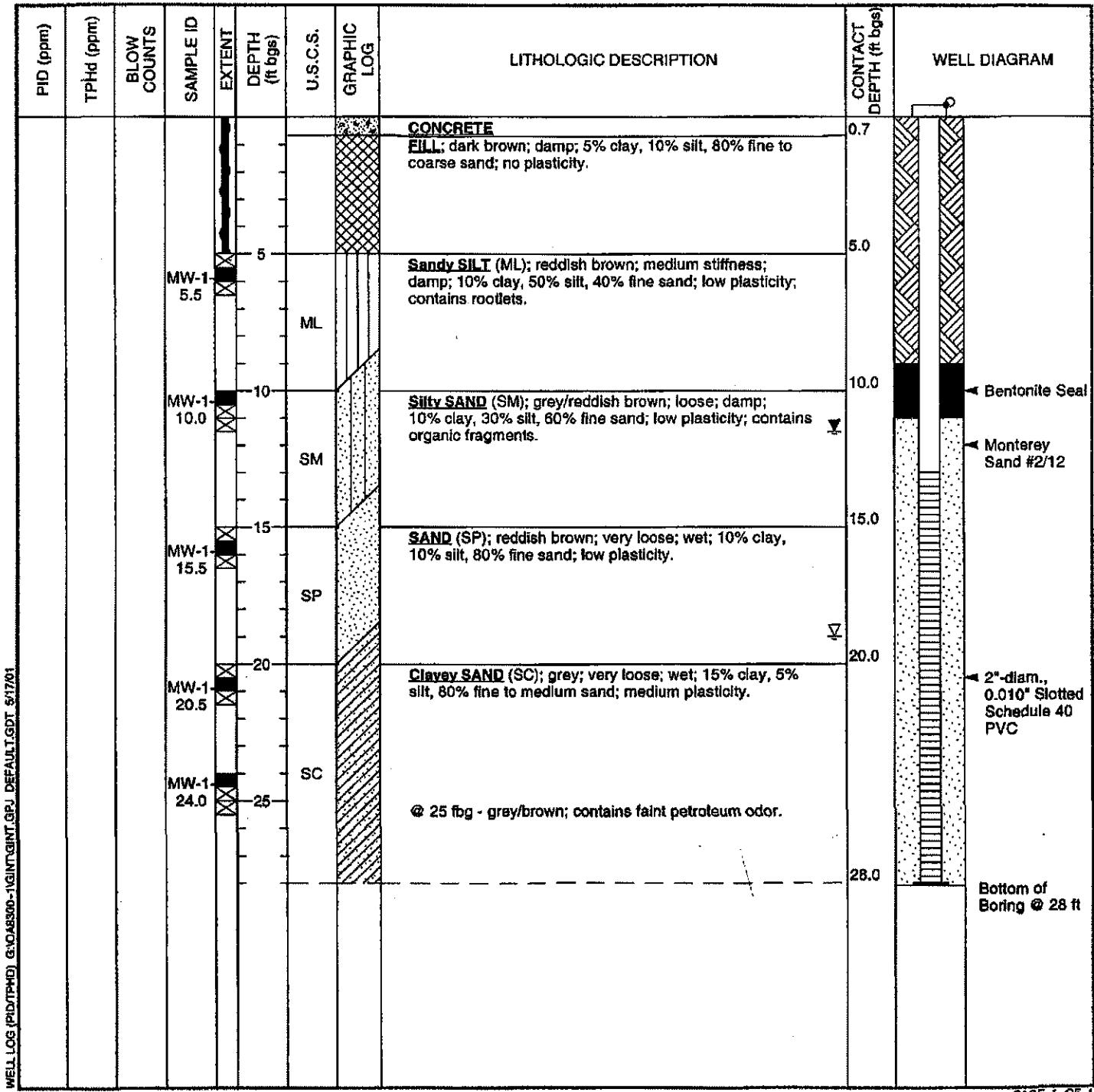
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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-1
JOB/SITE NAME	2120 Montana Street, Oakland	DRILLING STARTED	20-Feb-01
LOCATION	2120 Montana Street, Oakland	DRILLING COMPLETED	20-Feb-01
PROJECT NUMBER	242-0733	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	160.16
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	159.59 ft
BORING DIAMETER	8"	SCREENED INTERVAL	13 to 28 ft bgs
LOGGED BY	J. Loetterle	DEPTH TO WATER (First Encountered)	19.0 ft (20-Feb-01) ▽
REVIEWED BY	S. Bork, RG# 5626	DEPTH TO WATER (Static)	11.5 ft (20-Feb-01) ▽
REMARKS	Hand augered to 5'. Located at north end of station, 45' from the curb, and 10' from fence.		



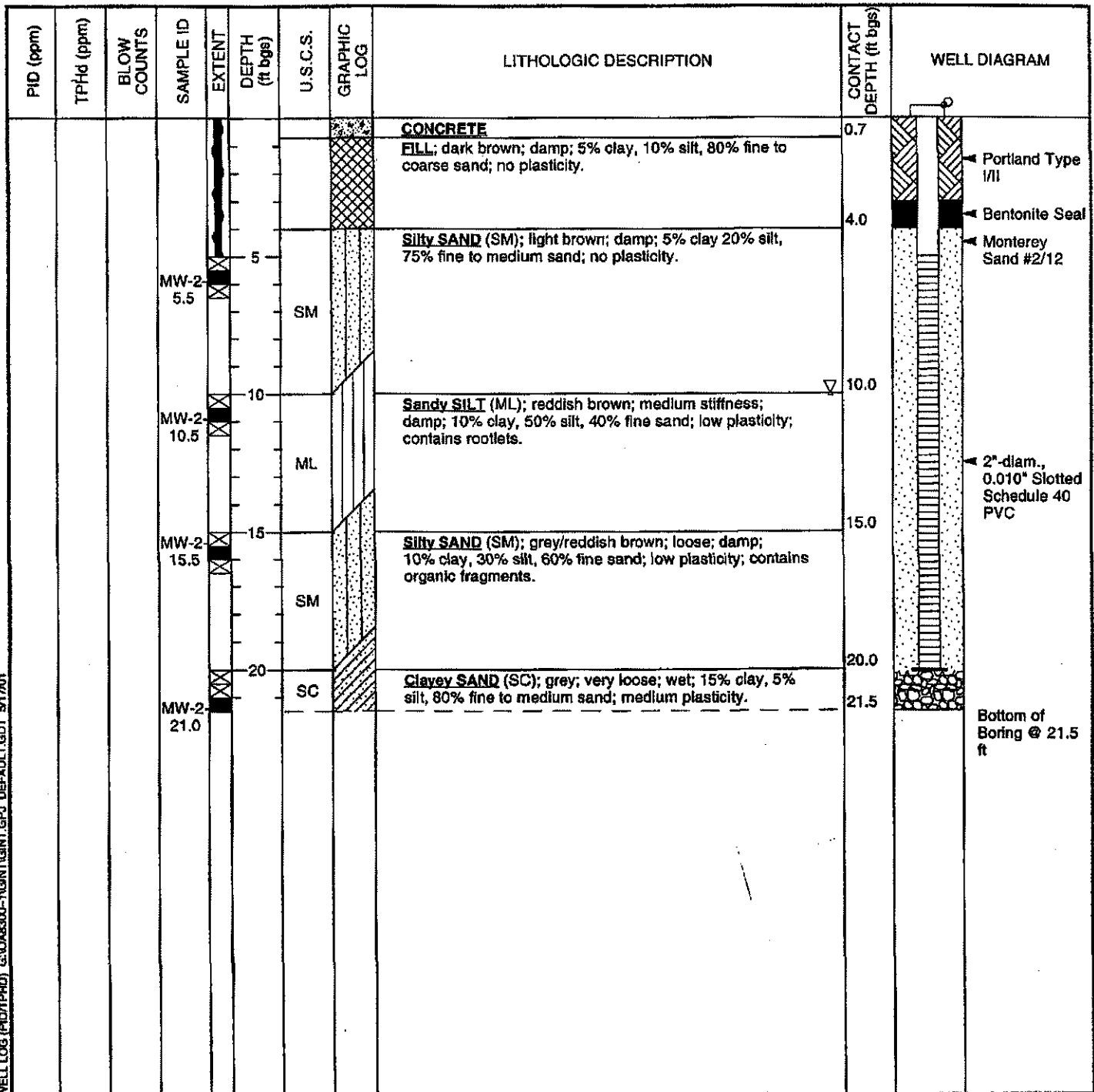
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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-2
JOB/SITE NAME	2120 Montana Street, Oakland	DRILLING STARTED	21-Feb-01
LOCATION	2120 Montana Street, Oakland	DRILLING COMPLETED	21-Feb-01
PROJECT NUMBER	242-0733	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	158.29
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	158.03 ft
BORING DIAMETER	8"	SCREENED INTERVAL	5 to 20 ft bgs
LOGGED BY	J. Loetterle	DEPTH TO WATER (First Encountered)	10.0 ft (21-Feb-01) ∇
REVIEWED BY	S. Bork, RG# 5626	DEPTH TO WATER (Static)	NA ∇
REMARKS	Hand augered to 5'. Located in the middle of the west bound lane of Montana Street, approximately 5' east of the property line.		



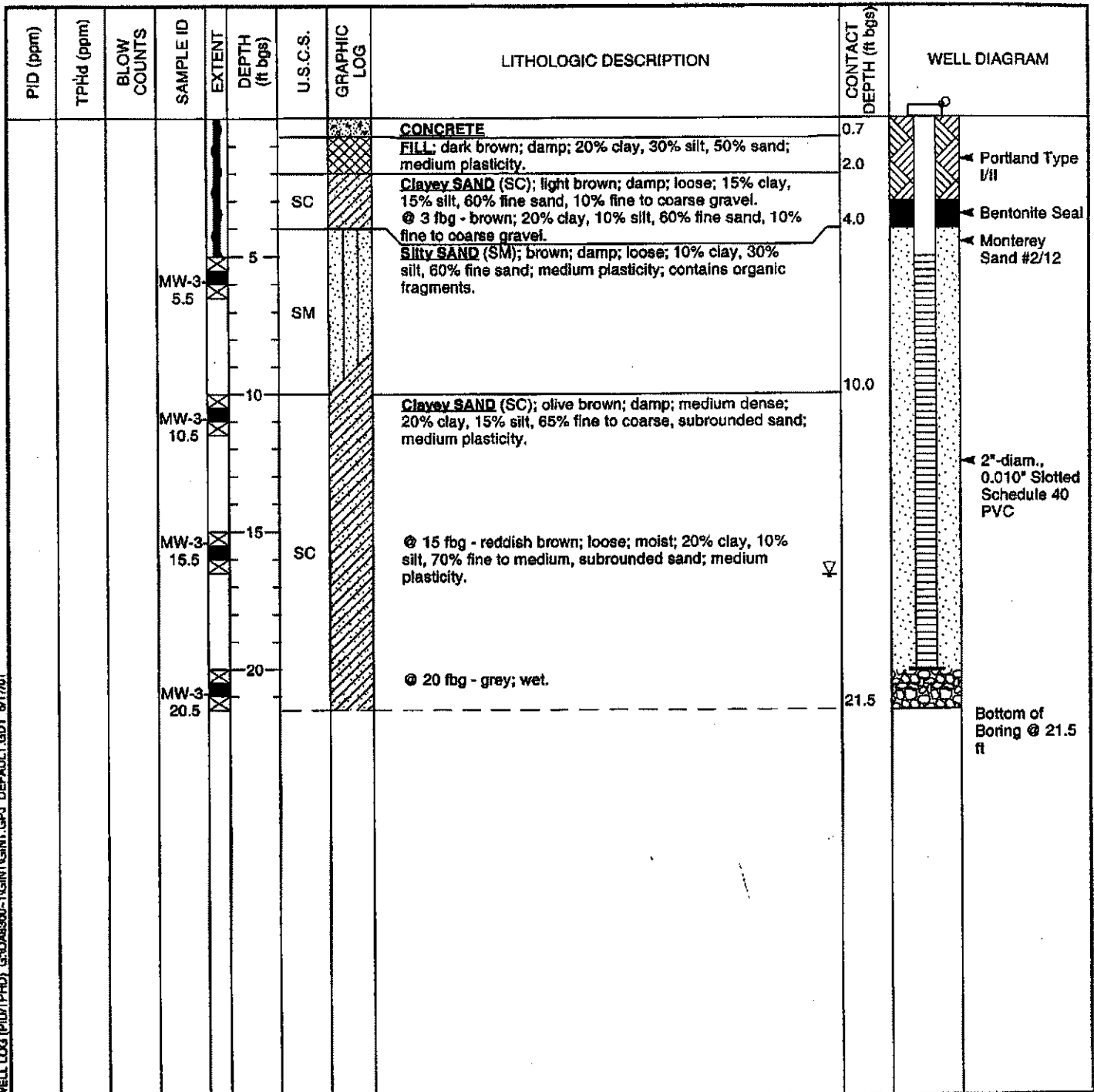
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BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>MW-3</u>
JOB/SITE NAME	<u>2120 Montana Street, Oakland</u>	DRILLING STARTED	<u>21-Feb-01</u>
LOCATION	<u>2120 Montana Street, Oakland</u>	DRILLING COMPLETED	<u>21-Feb-01</u>
PROJECT NUMBER	<u>242-0733</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>161.61</u>
DRILLING METHOD	<u>Hollow-stem auger</u>	TOP OF CASING ELEVATION	<u>161.13 ft</u>
BORING DIAMETER	<u>8"</u>	SCREENED INTERVAL	<u>5 to 20 ft bgs</u>
LOGGED BY	<u>J. Loetterle</u>	DEPTH TO WATER (First Encountered)	<u>16.6 ft (21-Feb-01)</u> ▼
REVIEWED BY	<u>S. Bork, RG# 5626</u>	DEPTH TO WATER (Static)	<u>NA</u> ▼
REMARKS	<u>Hand augered to 5'. Located at the east end of the station, approximately 18' north of the eastern dispenser.</u>		



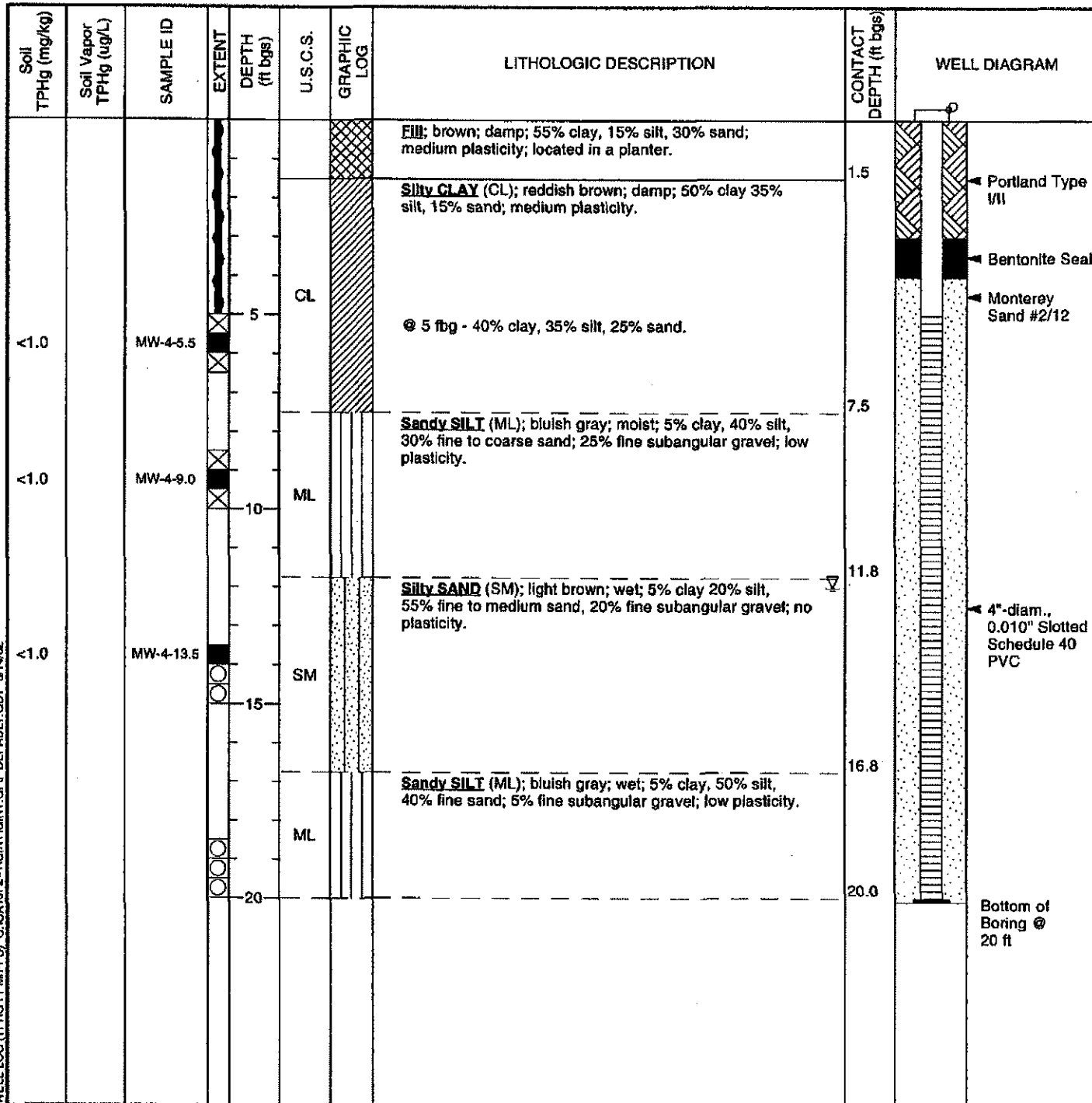
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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-4
JOB/SITE NAME	2120 Montana Street, Oakland	DRILLING STARTED	21-Jun-02
LOCATION	2120 Montana Street, Oakland	DRILLING COMPLETED	21-Jun-02
PROJECT NUMBER	244-0733	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	160.38 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	160.09 ft above msl
BORING DIAMETER	10"	SCREENED INTERVAL	5 to 20 ft bgs
LOGGED BY	J. Gerke	DEPTH TO WATER (First Encountered)	12.0 ft (21-Jun-02) ▽
REVIEWED BY	M. Derby, PE# 55475	DEPTH TO WATER (Static)	NA ▼
REMARKS	Hand augered to 5'. Located in the west end of the planter along Montana Street.		



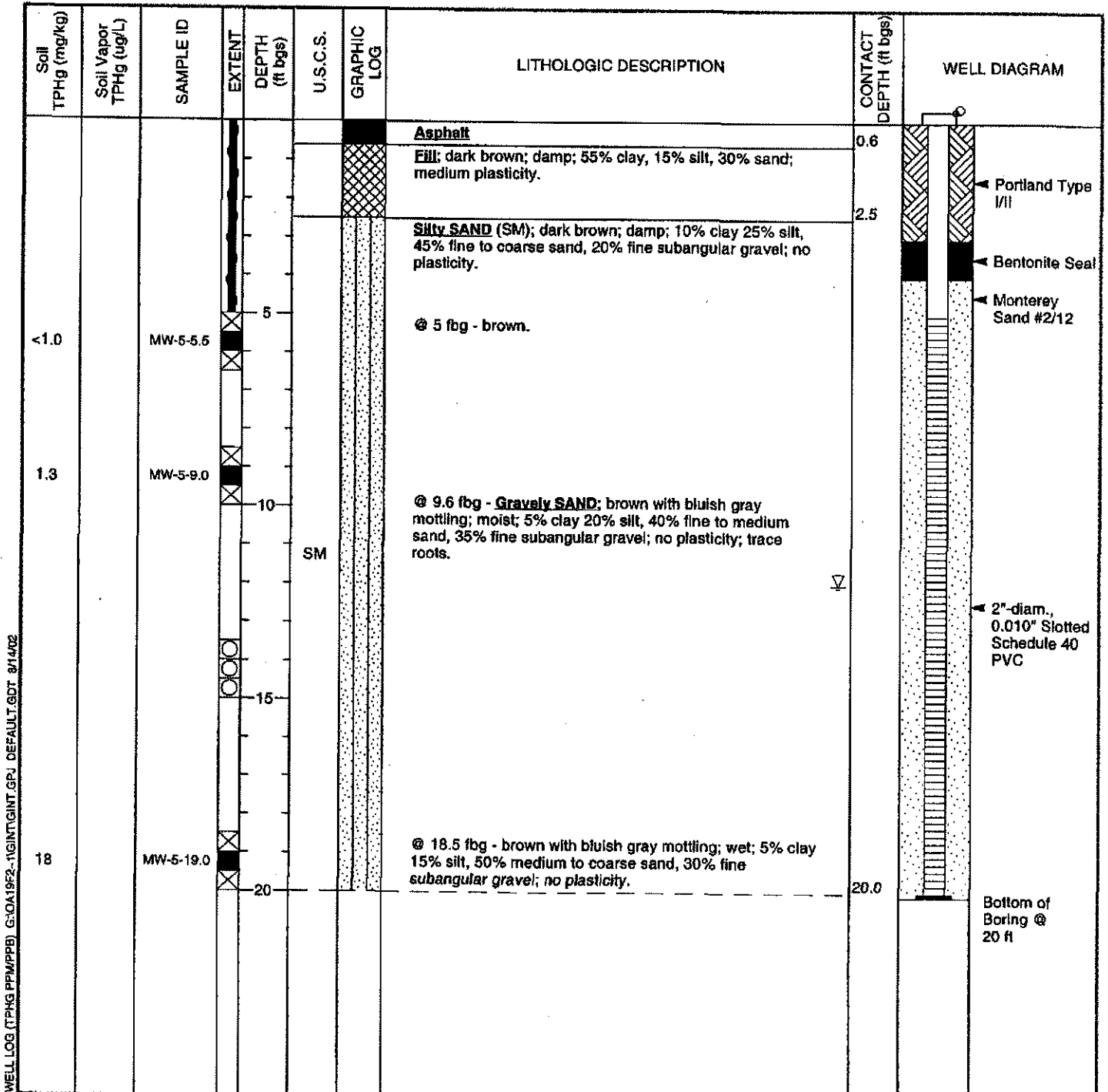
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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-5
JOB/SITE NAME	2120 Montana Street, Oakland	DRILLING STARTED	21-Jun-02
LOCATION	2120 Montana Street, Oakland	DRILLING COMPLETED	21-Jun-02
PROJECT NUMBER	244-0733	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	158.42 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	158.25 ft above msl
BORING DIAMETER	8"	SCREENED INTERVAL	5 to 20 ft bgs
LOGGED BY	J. Gerke	DEPTH TO WATER (First Encountered)	12.0 ft (21-Jun-02)
REVIEWED BY	M. Derby, PE# 55475	DEPTH TO WATER (Static)	NA
REMARKS	Hand augered to 5'. Located in west bound lane of Montana Street, 45 west of site property line.		



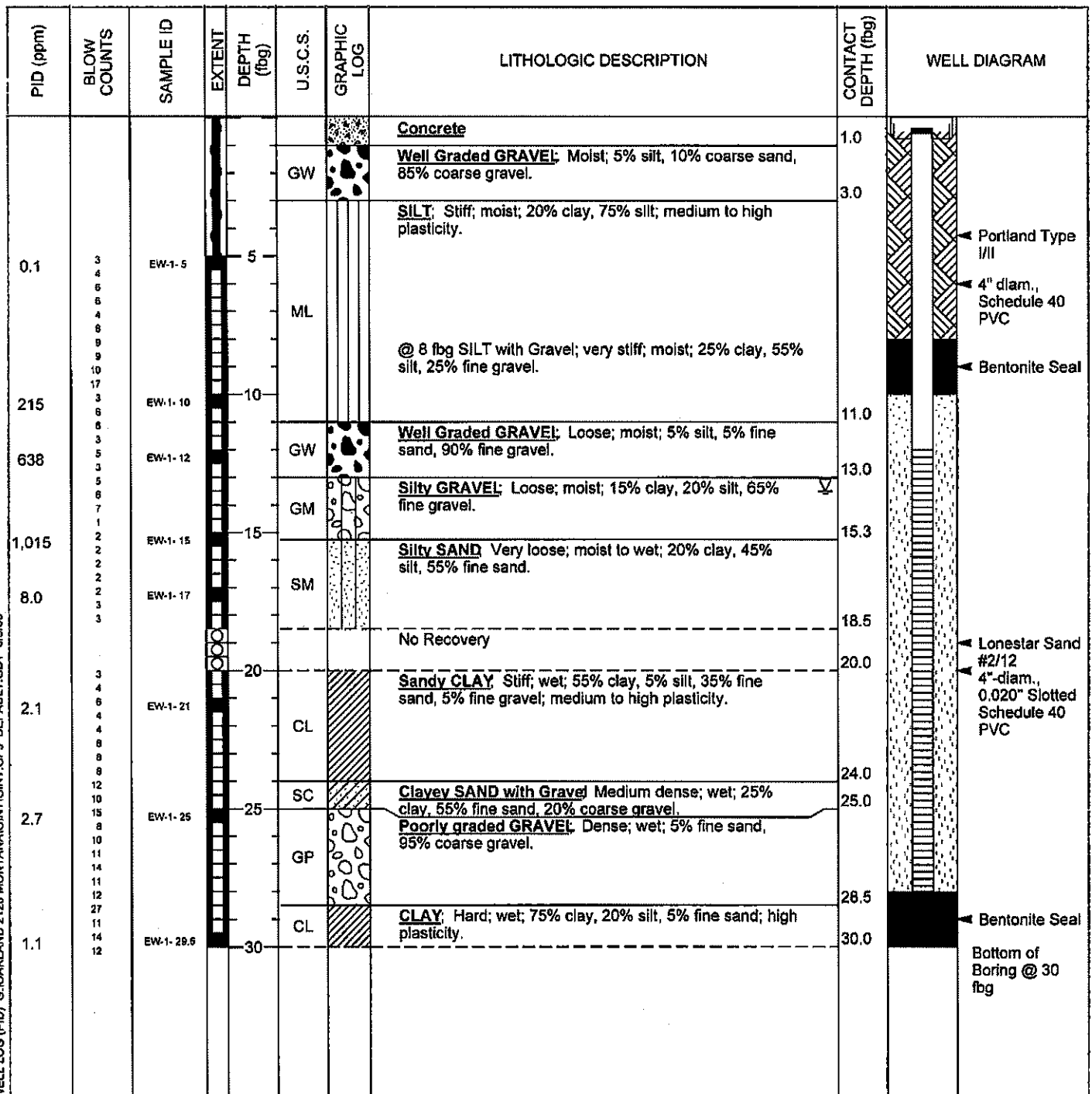
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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	EW-1
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	05-Apr-06
LOCATION	2120 Montana Street, Oakland	DRILLING COMPLETED	05-Apr-06
PROJECT NUMBER	248-0733-008	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	10"	SCREENED INTERVALS	12 to 28 fbg
LOGGED BY	S. Dalie IV	DEPTH TO WATER (First Encountered)	13.5 fbg (05-Apr-06) ∇
REVIEWED BY	A. Cool, P.G. #7659	DEPTH TO WATER (Static)	NA ∇
REMARKS	Air knifed to 5 fbg		



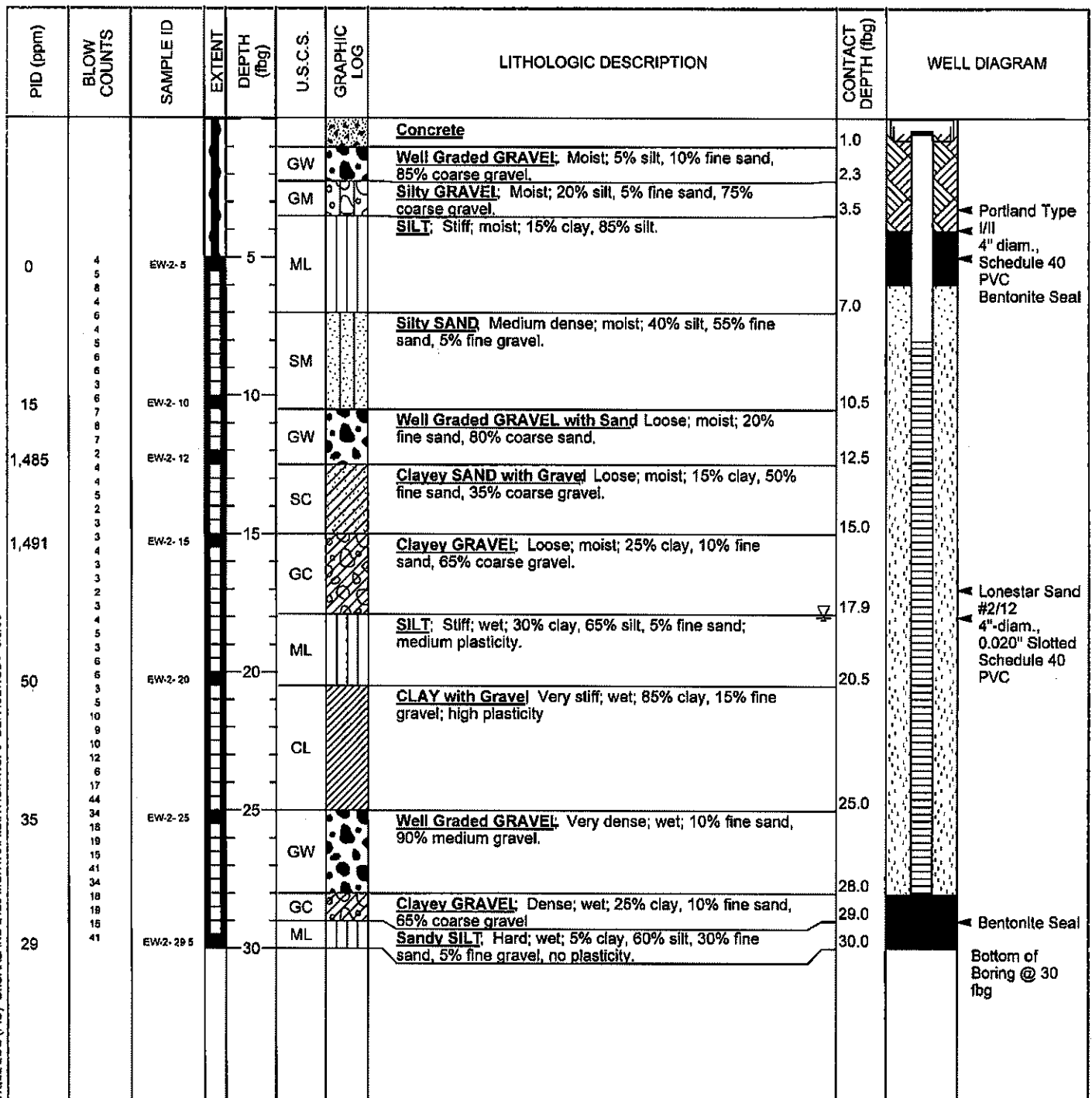
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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	EW-2
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	06-Apr-06
LOCATION	2120 Montana Street, Oakland	DRILLING COMPLETED	06-Apr-06
PROJECT NUMBER	248-0733-008	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	10"	SCREENED INTERVALS	8 to 28 fbg
LOGGED BY	S. Dalie IV	DEPTH TO WATER (First Encountered)	18.0 fbg (06-Apr-06)
REVIEWED BY	A. Cool, P.G. #7659	DEPTH TO WATER (Static)	NA
REMARKS	Air knifed to 5 fbg		



WELL LOG (PID) G:\OAKLAND 2120 MONTANA\GINT\GINT.GPJ DEFAULT.GDT 6/9/06



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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SV-D
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	14-Jun-05
LOCATION	2120 Montana Street, Oakland	DRILLING COMPLETED	14-Jun-05
PROJECT NUMBER	247-0733-006	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	6"	SCREENED INTERVALS	NA
LOGGED BY	S. Dale IV	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	A. Cool, P.G. #7659	DEPTH TO WATER (Static)	NA
REMARKS	Hand augered to 10.65 fbg.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete	0.8	
					GM		Silty GRAVEL (GM); Dark gray; loose; dry; 5% clay, 15% silt, 80% gravel.	1.5	
109							CLAY (CL); Black; medium stiff; dry; 85% clay; 15% silt; medium plasticity.		Portland Type I/II
8		SV-D-5		5	CL		@ 7 fbg - 70% clay, 25% silt, 5% gravel; low plasticity.		Bentonite Seal
1.5		SV-D-10		10			@ 10 fbg - Gray to black; damp; 70% clay, 20% silt, 10% gravel; low plasticity.		Monterey Fine Sand #1C 3" Screen, 1/4" Teflon Bentonite Pellets
								10.7	Portland Type I/II
									Bentonite Seal
									Monterey Fine Sand #1C 3" Screen, 1/4" Teflon Bentonite Pellets
									Bottom of Boring @ 10.65 ft bgs

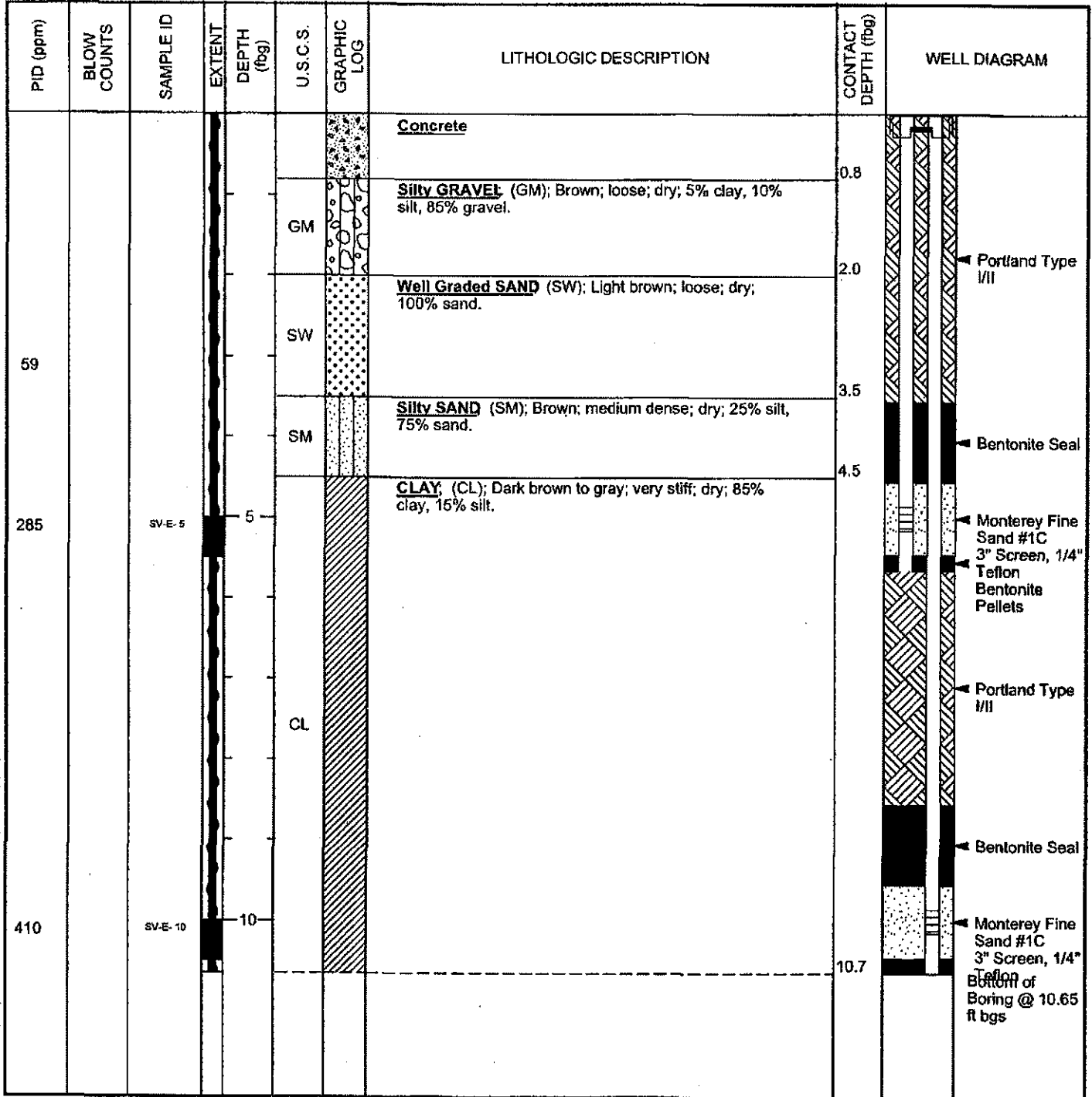
WELL LOG (PID) G:\0419\F2-1\GINT\GINT.GPJ DEFAULT.GDT 10/21/05



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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SV-E
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	14-Jun-05
LOCATION	2120 Montana Street, Oakland	DRILLING COMPLETED	14-Jun-05
PROJECT NUMBER	247-0733-006	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	6"	SCREENED INTERVALS	NA
LOGGED BY	S. Daile IV	DEPTH TO WATER (First Encountered)	NA
REVIEWED BY	A. Cool, P.G. #7659	DEPTH TO WATER (Static)	NA
REMARKS	Hand augered to 10.65 fbg.		



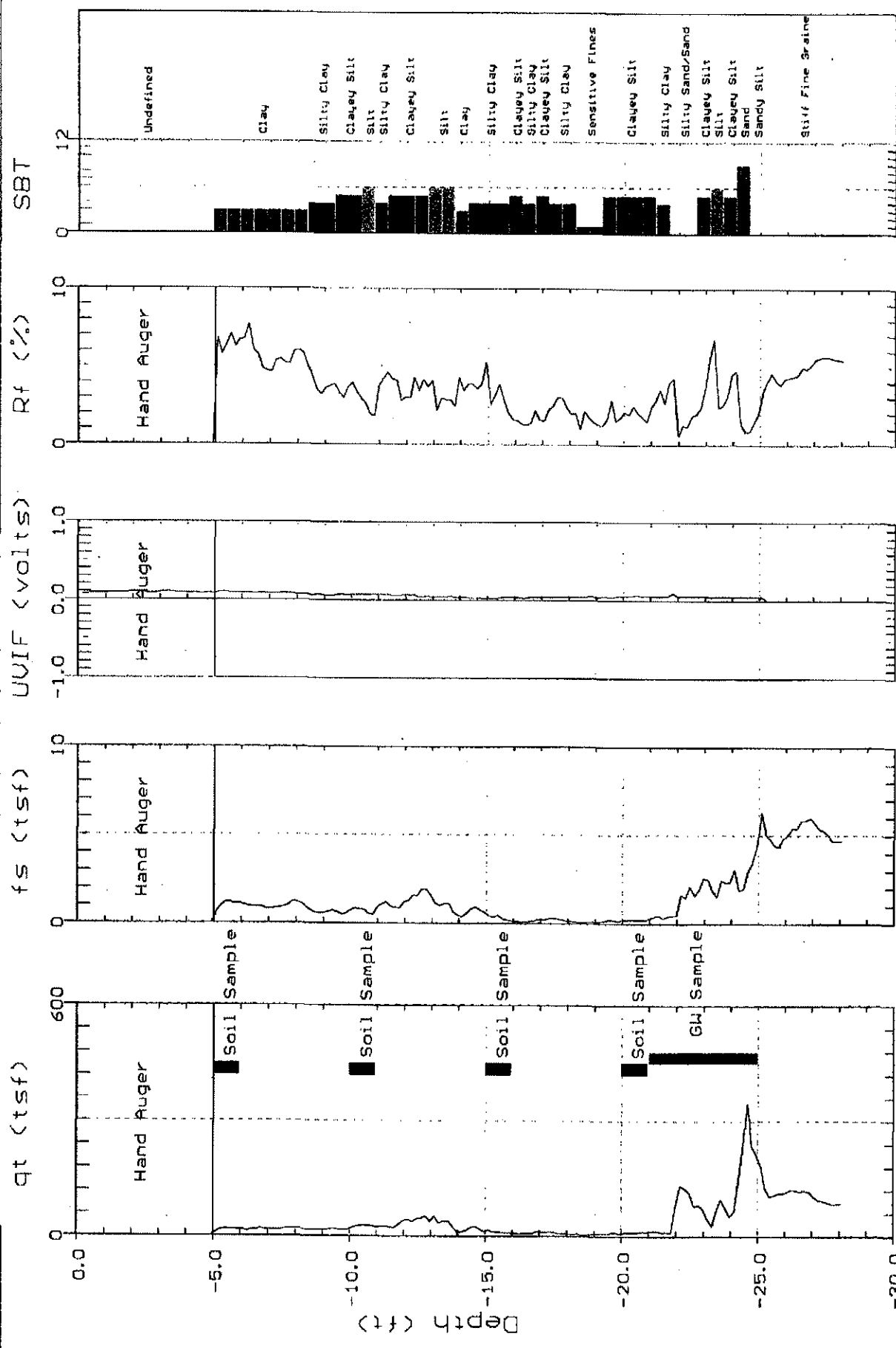
WELL LOG (PID) G:\0419F2-1G\INTGINT.GPJ DEFAULT.GDT 10/21/05



CAMBRIA ENV.

Site: 2120 MONTANA ST.
Location: CPT-SB-4

Engineer: C. VASKO
Date: 06:15:105 08:15



Max. Depth: 28.05 (ft)
Depth Inc.: 0.164 (ft)

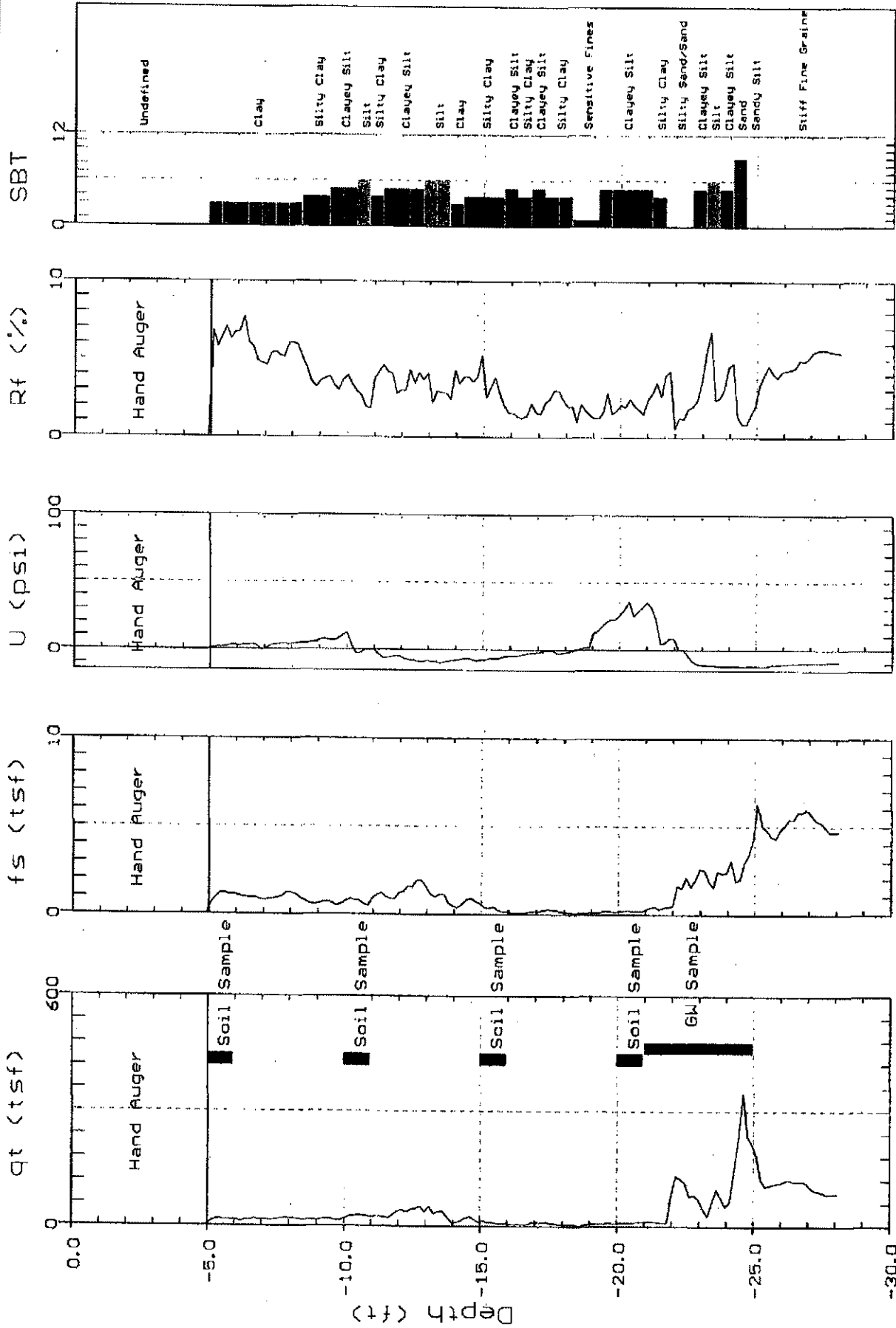
SBT: Soil Behavior Type (Robertson 1990)



CAMBRIA ENV.

Site: 2120 MONTANA ST.
Location: CPT-SB-4

Engineer: C. VASKO
Date: 06:15:105 08:15



Max. Depth: 28.05 (ft)
Depth Inc.: 0.164 (ft)

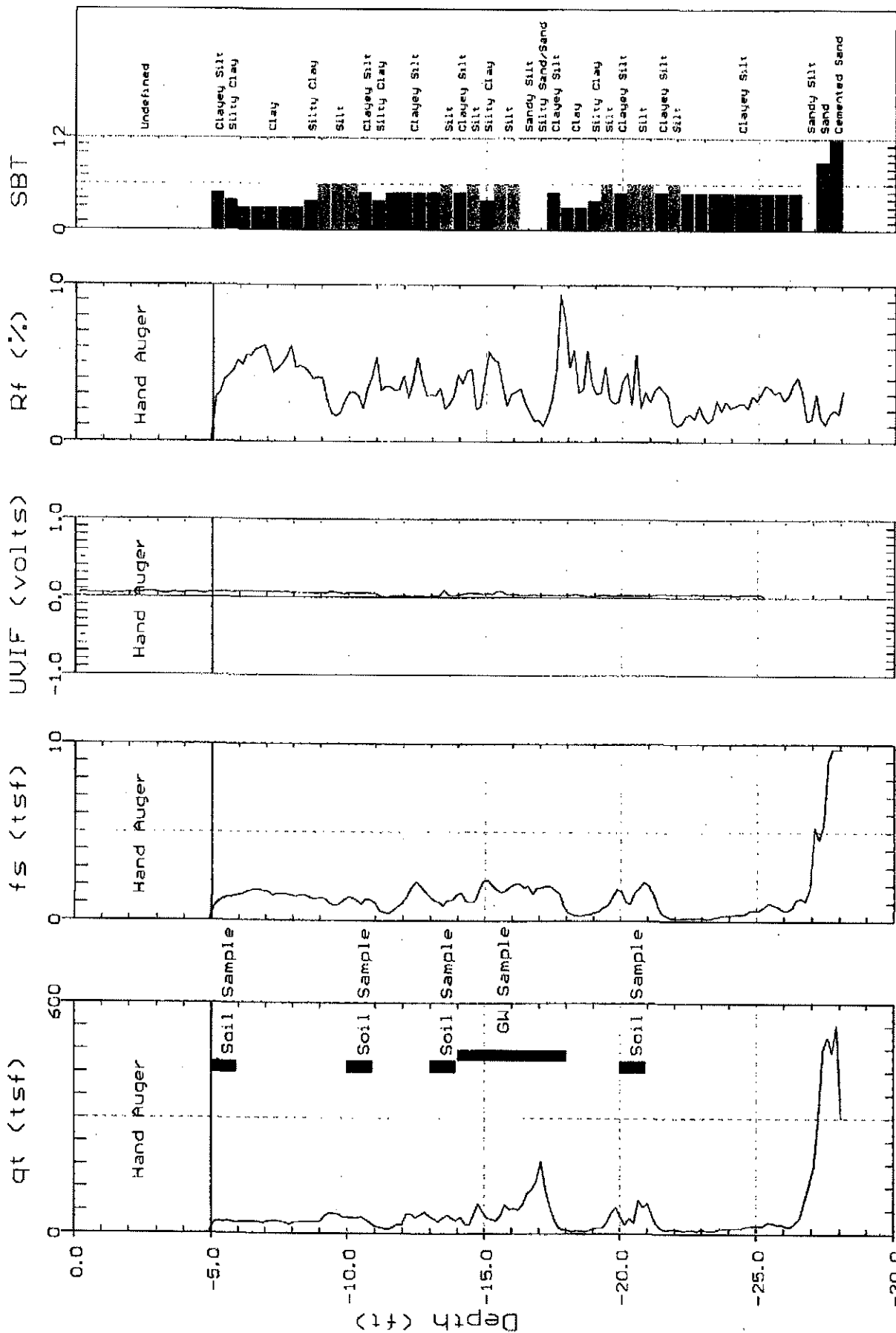
SBT: Soil Behavior Type (Robertson 1990)



CAMBRIA ENV.

Site: 2120 MONTANA ST.
Location: CPT-SB-5

Engineer: C. VASKO
Date: 06:15:105 10:18



Max. Depth: 28.05 (ft)
Depth Inc.: 0.164 (ft)

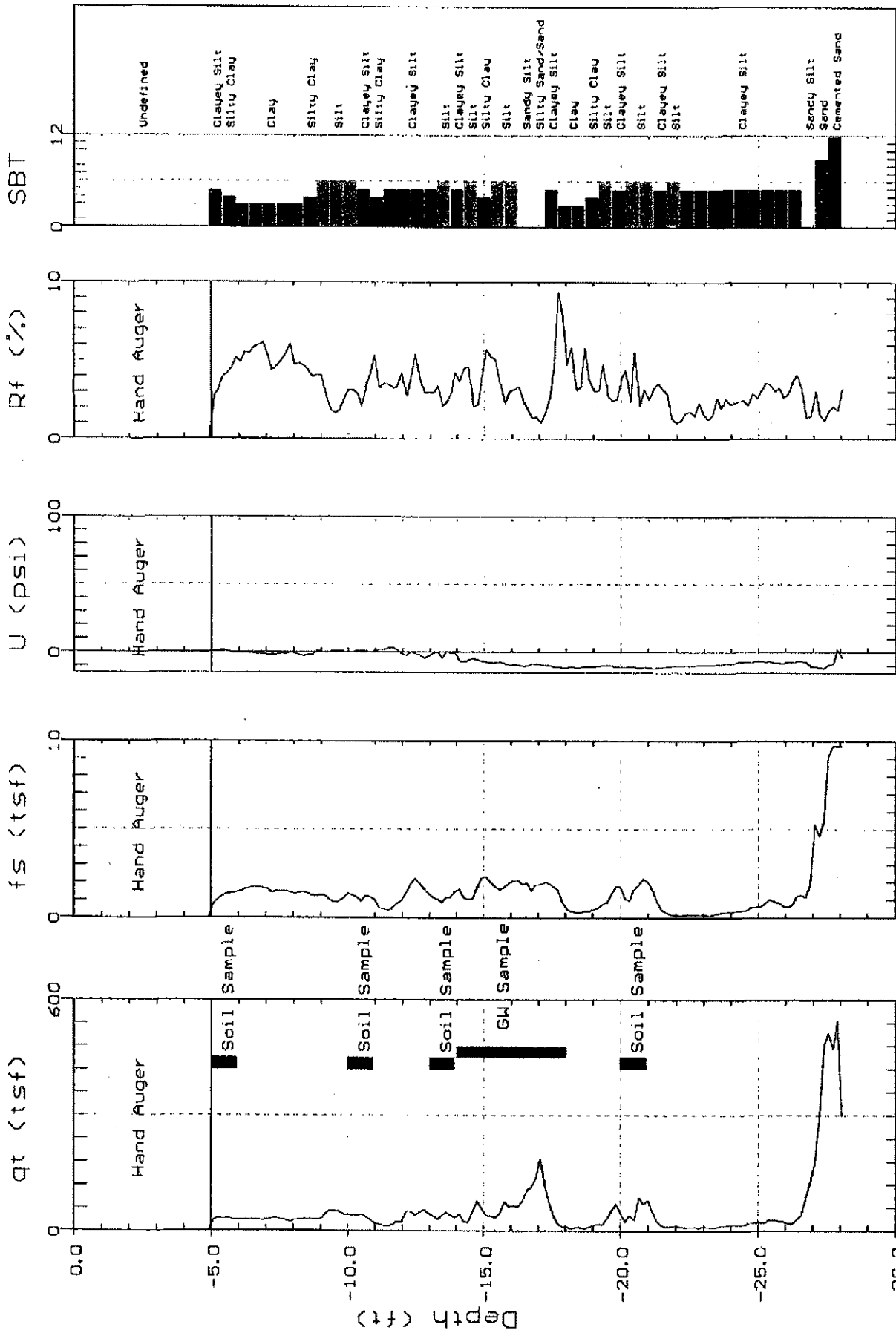
SBT: Soil Behavior Type (Robertson 1990)



CAMBRIA ENV.

Site: 2120 MONTANA ST.
Location: CPT-SB-5

Engineer: C. JASKO
Date: 06:15:105 10:18



Max. Depth: 28.05 (ft)
Depth Inc.: 0.164 (ft)

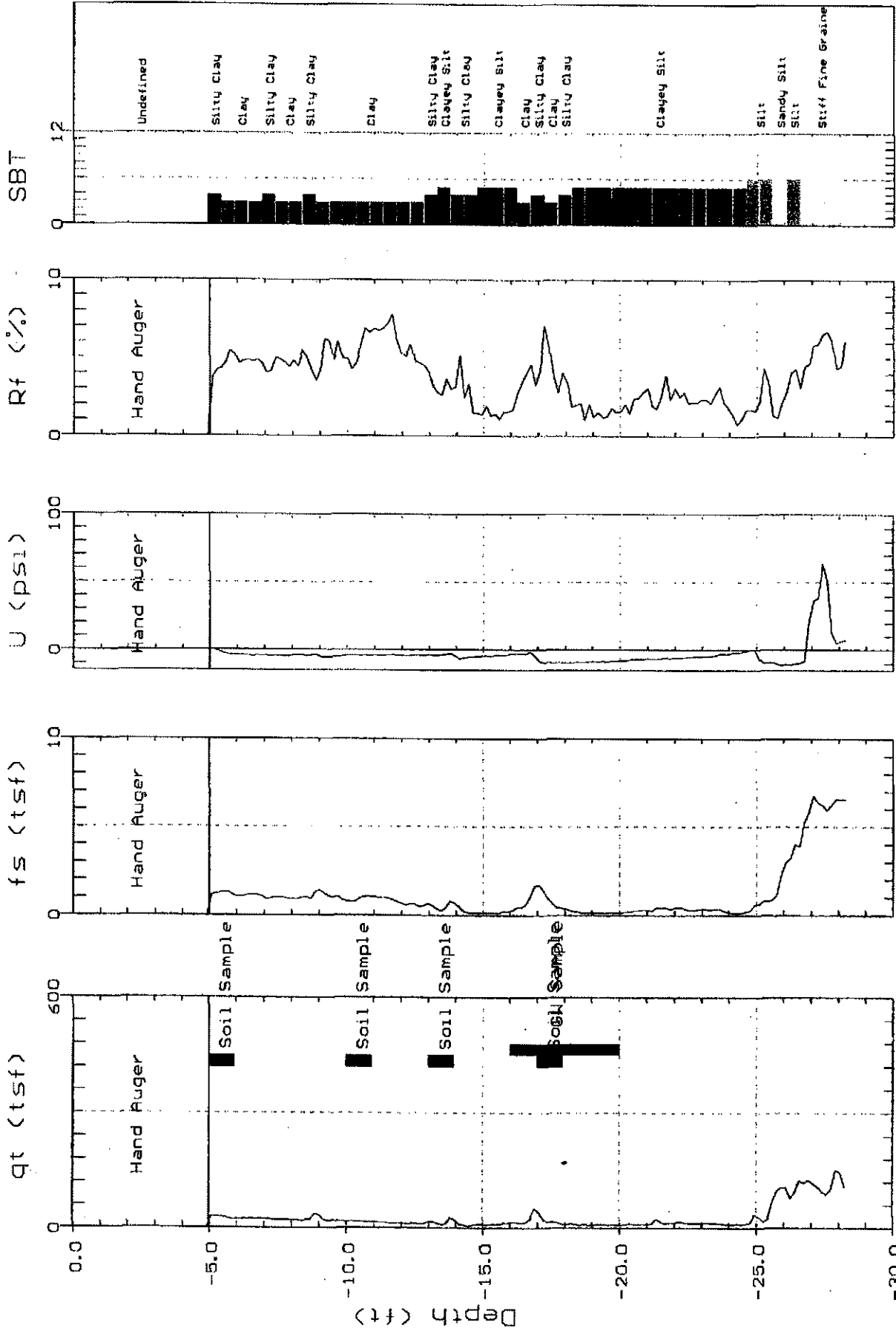
SBT: Soil Behavior Type (Robertson 1990)



CAMBRIA ENV.

Site: 2120 MONTANA ST.
Location: CPT-SB-6

Engineer: C. VASKO
Date: 06:15:105 12:59



Max. Depth: 28.21 (ft)
Depth Inc.: 0.164 (ft)

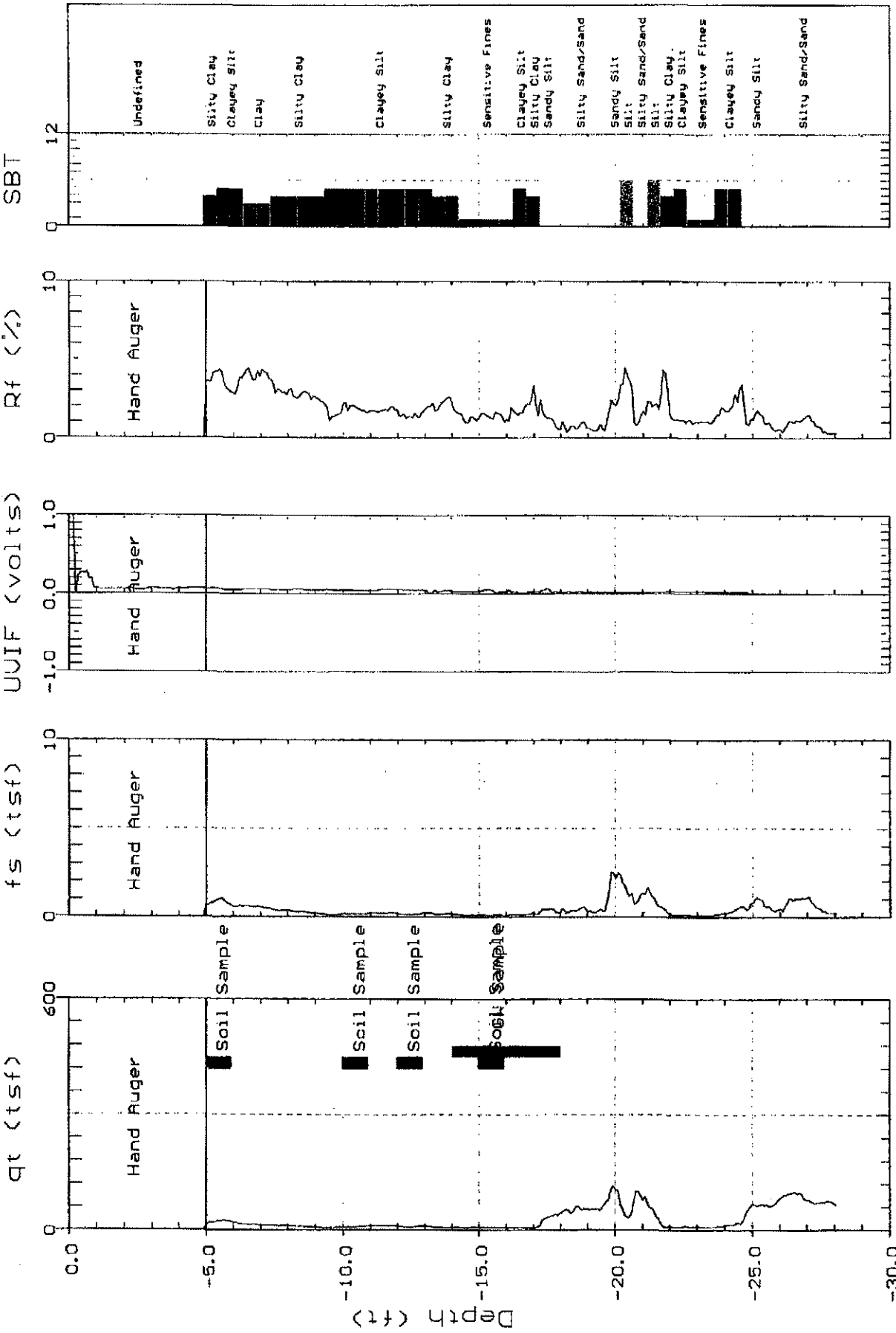
SBT: Soil Behavior Type (Robertson 1990)



CAMBRIA ENV.

Site: 2120 MONTANA ST.
Location: CPT-SB-8

Engineer: C. JASKO
Date: 06:16:105 09:13



Max. Depth: 28.05 (ft)
Depth Inc.: 0.082 (ft)

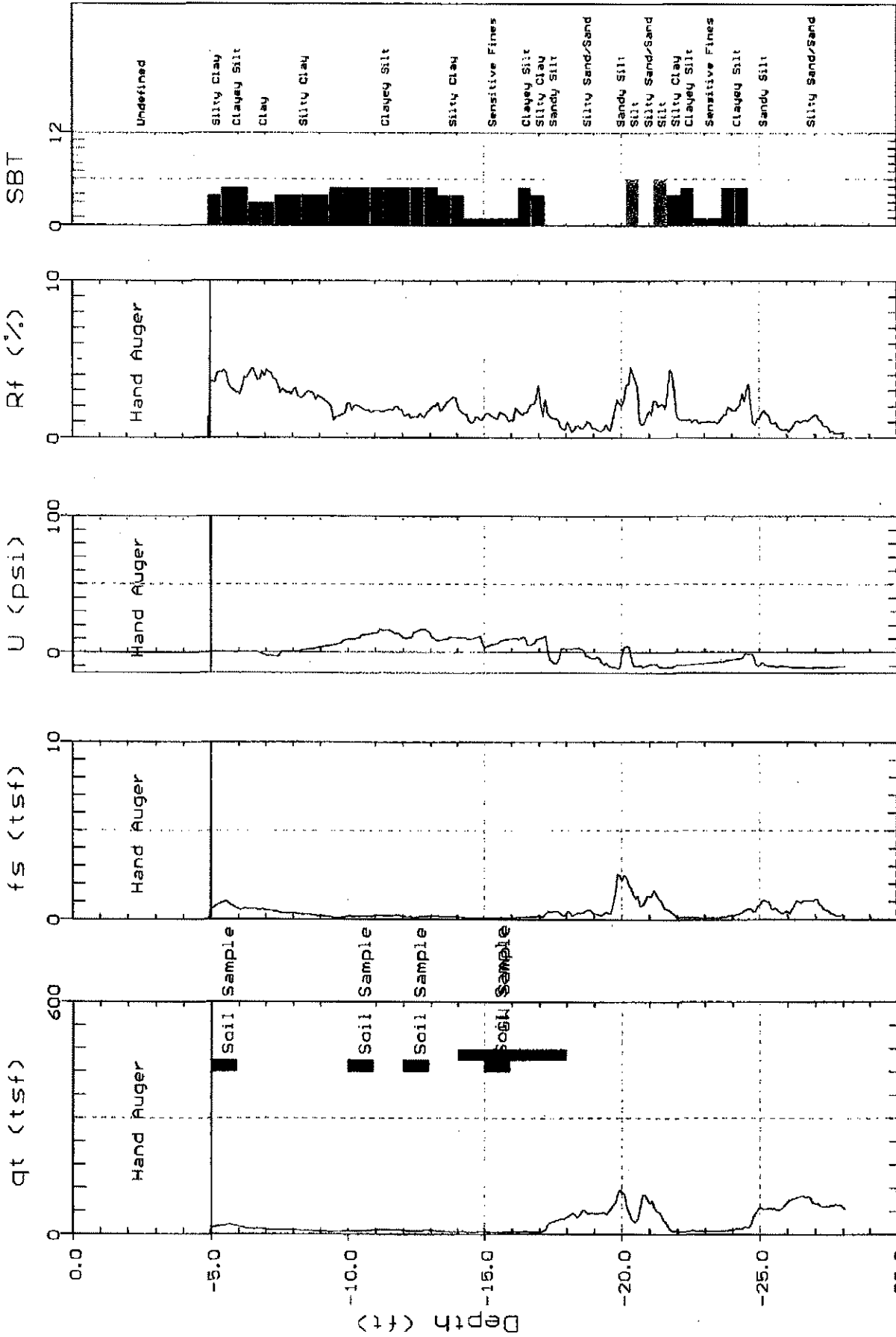
SBT: Soil Behavior Type (Robertson 1990)



CAMBRIA ENV.

Site: 2120 MONTANA ST.
Location: CPT-SB-8

Engineer: C. JASKO
Date: 06:16:105 09:13



Max. Depth: 28.05 (ft)
Depth Inc.: 0.082 (ft)

SBT: Soil Behavior Type (Robertson 1990)