ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, 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, 2013

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

Arthur R. and Mary A. Hansen Trust
c/o Arthur Hansen
820 Loyola Drive
Los Altos, CA 94024-5919

Subject: Case Closure for Fuel Leak Case No. RO0000487 and GeoTracker Global ID T0600102116, Shell#13-5700, 105 Fifth Street, Oakland, CA 94607

Dear Mr. Brown and Arthur R. and Mary A. Hansen Trust:

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 300 ppm.
- Total Petroleum hydrocarbons as gasoline remains in groundwater at concentrations up to 1,200 ppb.
- As described in section IV of the attached Case Closure Summary, the case was closed with Site Management Requirements that limit future land use to the current commercial land use as a gasoline service station and existing building configuration only.

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

Sincerely,

Donna L. Drogos, P.E.
Division Chief

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

cc:

Leroy Griffin (w/enc)
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@craworld.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, 2013

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

Arthur R. and Mary A. Hansen Trust
c/o Arthur Hansen
820 Loyola Drive
Los Altos, CA 94024-5919

Subject: Case Closure for Fuel Leak Case No. RO0000487 and GeoTracker Global ID T0600102116, Shell#13-5700, 105 Fifth Street, Oakland, CA 94607

Dear Mr. Brown and Arthur R. and Mary A. Hansen Trust:

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

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

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 (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ariu Levi
Director

Alameda County Environmental Health

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

I. AGENCY INFORMATION

Date: May 2, 2012

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 #13-5700		
Site Facility Address: 105 5th Street, Oakland, CA 94607		
RB Case No.: 01-2300	Local Case No.: STID 3849	LOP Case No.: RO0000487
URF Filing Date: 12/5/1996	GeoTracker ID: T0600102116	APN: 1-163-3

Responsible Parties	Addresses	Phone Numbers
Arthur R and Mary Hansen	Arthur and Mary Hansen Trust et al. 820 Loyola Dr. Los Altos, CA 94024-5919	---
Denis Brown	Shell Oil Products US 20945 South Wilmington Ave. Carson, CA 90810-1039	(707) 865-0251

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
---	10,000	Gasoline	*	11/27/1996
---	10,000	Gasoline	*	11/27/1996
---	10,000	Gasoline	*	11/27/1996
---	10,000	Diesel	*	11/27/1996
Piping			Removed	11/27/1996

*Tanks were kept in place and a secondary containment was installed around the underground storage tank turbine sumps.

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. Soil contamination was discovered during the removal of five gasoline dispensers, two diesel dispensers, and associated piping in 1997.	
Site characterization complete? Yes	Date Approved By Oversight Agency: -----

Monitoring wells installed? Yes	Number: 7	Proper screened interval? Yes
Highest GW Depth: 4.7 fbgs	Lowest GW Depth: 19.07 fbgs	Flow Direction: Southeast to south-southeast.
Most Sensitive Current Use: Potential drinking water source		

Summary of Production Wells in Vicinity: One irrigation well is located approximately 2,400 feet north of the site. Based on the distance and upgradient location, the irrigation well is not expected to be a receptor for the site. No other water supply wells are located within ½-mile of the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: The Oakland Inner Harbor is located approximately 1,500 feet southwest 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 City of Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	---	---	---
Piping	Not reported	Piping from active and inactive dispensers disposed of at an unreported location.	11/27/1996
Soil	1) Unknown 2) 2.79 tons 3) 10 tons 4) 3 yd^3	1) Soil was removed during dispenser removal and disposed of at the Laidlaw Environmental Services facility in Buttonwillow, CA 2) ,3) ,4) Disposed of at Forward Landfill in Manteca, CA	1) 11/27/1996 2) 6/16/1999 3) 5/16/2001 4) 3/27/2002
Groundwater	1) 2,900 gallons 2) 197,284 gallons	1) ,2) Groundwater was extracted during DVE pilot test and disposed of at the Martinez Refinery Corporation in Martinez, CA	1) 3/20/2001 2) Semi-monthly GWE events were performed from November 2001 to June 2006.

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
(Please see Attachments x – x for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	3,500	300	90,000 (1)	1,200 (1)
TPH (Diesel)	14,000	8.4	27,000 (2)	380 (2)
TPH (Oil and Grease)	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed
Benzene	21	0.039	1,790	36
Toluene	22	0.039	490 (3)	76 (3)
Ethylbenzene	36	2.9	3,500 (3)	6.8 (3)
Xylenes	210	6.0	13,000 (3)	222 (3)
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	17.3 (4)	17.3 (4)	Not Analyzed	Not Analyzed
MTBE	26 (5)	5.4 (6)	324,000 (7)	740 (8)
Other (8240/8270)	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed

(1) The maximum concentration before cleanup is from a grab groundwater sample from soil boring SB-4 collected on July 23, 1998; the maximum concentration after cleanup is from a groundwater sample collected from well MW-4 during the most recent groundwater monitoring event on October 2, 2008.
(2) The maximum concentration before cleanup is from a grab groundwater sample from soil boring SB-3 collected on July 23, 1998; the maximum concentration after cleanup is from a groundwater sample collected from well T-1 during the most recent groundwater monitoring event on October 2, 2008.
(3) The maximum concentration before cleanup is from a grab groundwater sample from soil boring SB-4 collected on July 23, 1998; the maximum concentration after cleanup is from a groundwater sample collected from well T-1 during the most recent groundwater monitoring event on October 2, 2008.
(4) Lead = 17.3 ppm; chromium = 35.6 ppm; nickel = 25.2 ppm; zinc = 27.6 ppm; and cadmium <1 ppm.
(5) MTBE = 26 ppm; no other fuel oxygenates analyzed.
(6) MTBE = 5.4 ppm; no other fuel oxygenates analyzed.
(7) MTBE = 324,000 ppb; TBA = 53,000 ppb; DIPE, ETBE, and TAME < 250 ppb; 1,2-DCA and EDB < 100 ppb; ethanol <500 ppb.
(8) During the most recent groundwater monitoring event on October 2, 2008, MTBE = 740 ppb; TBA = 200 ppb; ETBE, DIPE, TAME <2.0 ppb; ethanol <5 ppb; EDB, EDC, and ethanol not analyzed.

Site History and Description of Corrective Actions:

The site is currently an active Shell service station. Surrounding properties are commercial, with the Nimitz freeway bordering the site to the north. Subsurface soils consist of Holocene and Pleistocene age Merritt Sand. Based on subsurface investigations, the site is underlain primarily by sand, silty sand, and clayey sand to a total explored depth of 25.5 fbgs. Depths to groundwater have historically been measured between 4.7 and 19.07 fbgs. The groundwater gradient is southeast to south-southeast.

A soil sampling event was conducted on November 27 and December 4, 1997, following removal of five gasoline dispensers, two diesel fuel dispensers, and associated piping. The dispensers were replaced with added secondary containment. Soil samples were collected from the seven onsite dispensers, inactive diesel fuel piping, and soil stockpile. All samples except those from D-3 and D-8 had concentrations of total petroleum hydrocarbons as gasoline (TPHg) above 1,000 parts per million (ppm). The soil samples contained maximum concentrations of 14,000 ppm total petroleum hydrocarbons as diesel (TPHd), 3,500 ppm TPHg, 26 ppm MTBE, and 21 ppm benzene.

In February 1998, secondary containment was installed around the underground storage tank turbine sumps. After inspection of the tank pit, there were no observable indications of petroleum hydrocarbons.

On July 23, 1998, five soil borings (SB-1 through SB-5) were advanced, three down gradient and two up gradient, relative to the assumed groundwater flow direction. The borings were advanced to depths between 11 and 12 fbgs and groundwater was encountered between 6 and 9 fbgs. TPHd and TPHg were detected in soils five fbgs at maximum concentrations of 8.4 and 2.8 ppm, respectively. Groundwater samples collected southeast of the dispensers contained the greatest concentrations of petroleum contamination. Groundwater samples SB-3 and SB-4 contained 90,000 parts per billion (ppb) TPHg and 27,000 ppb TPHd, respectively. Benzene, toluene, ethylbenzene, and xylenes (BTEX) were also detected at maximum concentrations of 1,300 ppb, 490 ppb, 3,500 ppb, and 13,000 ppb, respectively, from SB-3. Methyl tert-butyl ether (MTBE) was detected in groundwater samples from soil borings SB-3 and SB-4 at concentrations of 1,700 ppb and 4,100 ppb, respectively.

Three groundwater monitoring wells were installed on May 14, 1999. Groundwater was encountered between 12.5 and 15.8 fbgs. Soil samples were collected every five feet. TPHg was only detected in soil from the MW-2 boring at a depth of 5.5 fbgs and a concentration of 1,700 ppm. MTBE was detected in soil samples from the MW-2 and MW-3 borings at maximum concentrations of 21.5 ppm and 20.4 ppm, respectively. Groundwater was sampled during the third quarter monitoring event on July 23, 1999. The groundwater sample collected from MW-3 contained 324,000 ppb of MTBE, the highest concentration detected at the site. TPHg, benzene, and xylenes were detected in MW-2 at concentrations of 31,800 ppb, 1,790 ppb, and 682 ppb, respectively.

On February 12, 2001, three soil borings (SB-6, SB-7, and MW-4) were drilled offsite, one of which was converted to groundwater monitoring well MW-4. Groundwater was encountered in the borings at approximately 10 fbgs. Soil samples were collected every five feet from the borings and all soil samples did not contain petroleum hydrocarbons at concentrations above the reporting limit. The only detected contaminant in the grab groundwater samples was TPHd, detected in sample SB-7-10.0 at a concentration of 1,400 ppb.

A pilot test was conducted for a dual-phase vacuum extraction (DVE) system on March 20, 2001. DVE operation had previously been conducted from April to October 2000, with a total extraction (summation of air and water) of 12.63 pounds (lbs) TPHg, 0.077 lbs benzene, and 14.03 lbs MTBE. Based on the results of the pilot test conducted in 2001 and estimated removal rates, groundwater extraction was considered more effective than DVE. Groundwater extraction from the tank backfill well T-1 had a projected mass removal rate of 2.8 lbs/day TPHg and 110.4 lbs/day MTBE whereas, DVE had a projected mass removal of 0.007 lbs/day TPHg and 0.988 lbs/day MTBE. The projected groundwater mass removal from tank backfill well T-1 was calculated from one sample, collected from MW-3 during DVE.

Semi-monthly GWE events were performed from November 2001 to June 2006. A total of 197,294 gallons of water were removed, resulting in a calculated mass removal of 8.57 lbs TPHg, 0.23 lbs, benzene, and 66.23 lbs MTBE. Periodic GWE was suspended in June 2006 due to declining recovery of TPHg and MTBE.

A conduit study in 2001 identified utility conduits down gradient of the site. A 2-inch sanitary sewer main is buried six fbgs along Oak Street and flows to the southwest. An 8-inch diameter sanitary sewer is buried six fbgs along Fifth Street and flows southeast. A 24-inch storm drain conduit is buried 6 fbgs along Oak Street and flows southwest. The static groundwater depths at the site have ranged between five and seven fbgs, indicating the possibility of preferential flow along the more permeable backfill of these conduits.

Site History and Description of Corrective Actions (continued):

To investigate the potential preferential pathways along nearby utilities, a subsurface investigation was conducted on March 7 and 8, 2002. Five offsite soil borings (SB-8 and SB-12) and one onsite groundwater monitoring well (MW-5) were advanced during the investigation. Groundwater was measured at the site between 5.14 and 7.49 fbgs. Only a capillary fringe soil sample and a grab groundwater sample were collected from each boring. Soil samples were collected from the monitoring well boring every five feet. MTBE was only detected once from soil sample SB-9-7.5 at 5.4 ppm. TPHg was only detected in soil samples MW-5-5.0, MW-5-15.0, and SB-9-7.5 at concentrations of 300, 90.6, and 5.0 ppm, respectively. Groundwater concentrations of fuel constituents were highest in grab groundwater samples collected directly down gradient (southeast) of the USTs and dispensers and generally decreased with distance from the source along the utility corridors. The underground utilities along Oak Street were considered a potential preferential pathway for MTBE. However, the lateral attenuation of MTBE along the utility corridor did not indicate extensive preferential migration along the utility corridors.

One offsite monitoring well (MW-6) was installed on August 1, 2002 south of the site adjacent to the utility corridor. Soil samples collected from the boring did contain TPHg, BTEX, or MTBE at concentrations above the reporting limit.

Quarterly groundwater monitoring events have been conducted from third quarter 1999 to fourth quarter 2008. Results from the groundwater monitoring have shown declining trends in concentrations suggesting a stable or shrinking plume.

To evaluate the potential for vapor intrusion on site, soil vapor probes SVP-1 through SVP-7 were installed between August 2009 and December 2011. Soil vapor sampling events were conducted on five separate occasions from 2009 to the present. During the first two sampling events on August 25 and October 1, 2009, BTEX were the only analytes examined. Benzene and ethylbenzene were the only analytes detected during the first two sampling events with the highest concentrations detected in well SVP-3, the closest down gradient vapor probe to the former dispensers. In subsequent soil vapor sampling, TPHg, naphthalene, methane, carbon dioxide, and oxygen and argon were additionally analyzed. TPHg was detected at elevated concentrations ranging from 7,100,000 to 49,000,000 micrograms per cubic meter ($\mu g/m^3$) in soil vapor probes SVP-1, SVP-3, and SVP-6. Benzene was detected at concentrations ranging from 1,800 to 7,600 $\mu g/m^3$ in soil vapor probes SVP-1, SVP-3, and SVP-6. These data indicate there is a potential for vapor intrusion if this area of the site is developed in the future.

In order to assess the potential for vapor intrusion south of the site, soil vapor probes were installed at three locations along the southern boundary of the site (SVP-8 through SVP-10). TPHg and benzene were not detected at concentrations above the reporting limits for soil vapor samples collected from probes SVP-8 through SVP-10, indicating that there appears to be little potential for vapor intrusion outside the site.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: Case closure for this fuel leak site is granted for the current commercial land use as a gasoline service station and existing building configuration only. If a change in land use to any residential, other commercial, or other conservative land use scenario occurs at this site or the building structure is otherwise modified, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. Due to the potential for vapor intrusion to indoor air in future buildings within a portion of the site, ACEH will re-evaluate the case upon receipt of approved development/construction plans. Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities. This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 7
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

Elevated concentrations of TPHg and benzene were detected in soil vapor samples collected from the central and northeastern portions of the site. Any future site development plans that include structures within these areas will need to evaluate the potential for vapor intrusion to indoor air. Soil vapor samples collected along the southern boundary of the site appear to indicate that the site does not pose a risk of vapor intrusion to nearby structures.

Conclusion:

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 under the current commercial land use as a gasoline service station 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. However, as specified in the Site Management Requirements, re-evaluation of this case may be required if land uses changes to any residential, other commercial, or other conservative land use scenario; or construction or excavation activities take place or the building structure is otherwise modified. ACEH staff recommend closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature: Jerry Wickham	Date: 07/03/12
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature:	Date: 07/03/12

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: 07/03/12	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 07/16/12	Date of Well Decommissioning Report: 10/10/12	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 6	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: NA		
ACEH Concurrence - Signature: Jerry Wickham		Date: 01/24/13

Attachments:
1. Site Vicinity Maps (2 pp)
2. Site Plan and Soil Vapor Concentration Maps (2 pp)
3. Groundwater Elevation and Isoconcentration Maps (6 pp)
4. Soil and Soil Vapor Analytical Data (4 pp)
5. Groundwater Analytical Data (10 pp)
6. Boring Logs (17 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.

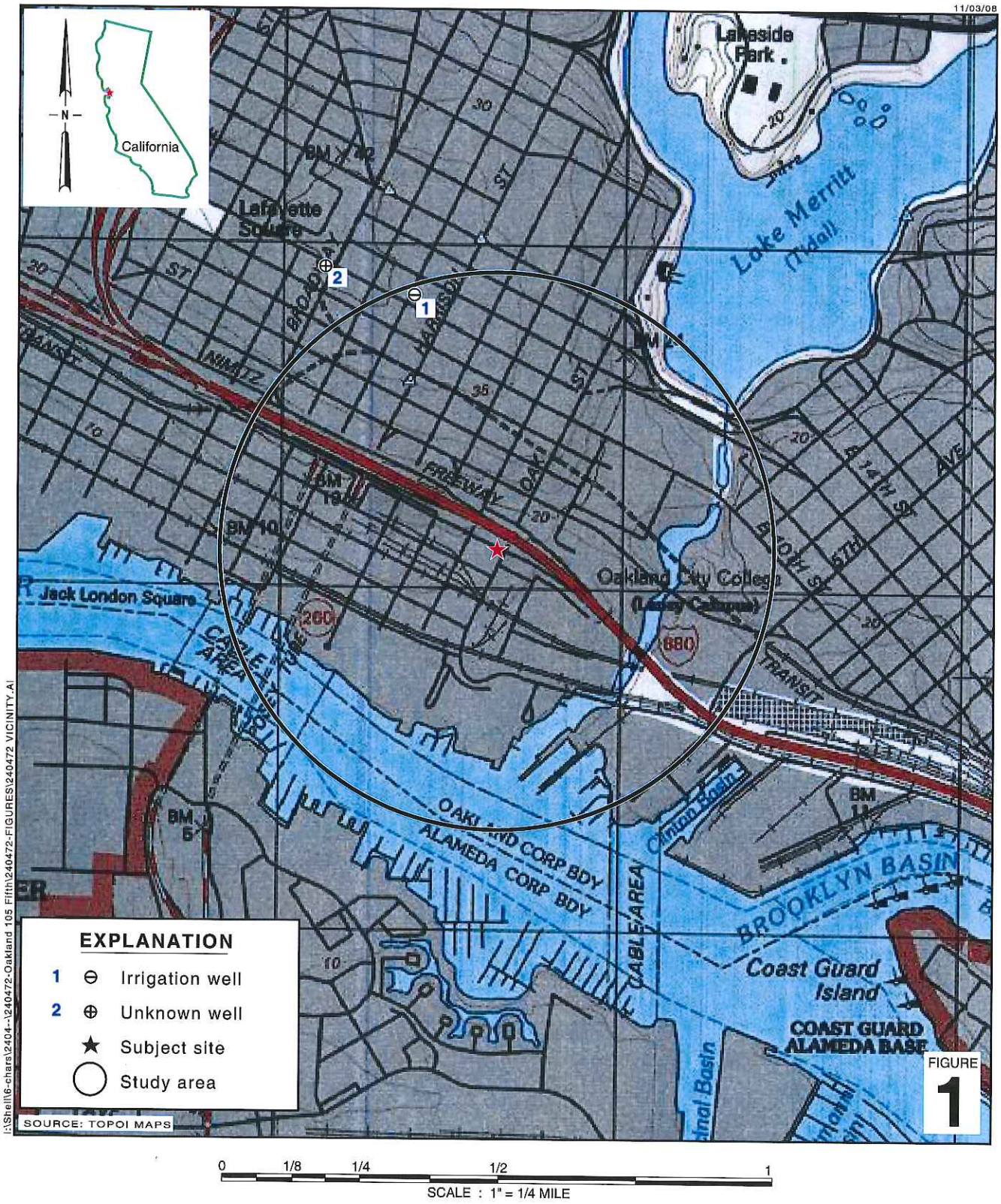
Wickham, Jerry, Env. Health

From: Cherie MCcaulou [CMccaulou@waterboards.ca.gov]
Sent: Tuesday, July 03, 2012 4:26 PM
To: Wickham, Jerry, Env. Health
Subject: Re: RO0487 Pending case closure for 105 5th Street, Oakland

Hi Jerry - Thank you for the notice for case closure. We have no objection to ACEH's recommendation to close this case.

>>> "Wickham, Jerry, Env. Health" <jerry.wickham@acgov.org> 7/3/2012 3:25 PM >>>
This email provides notification of pending closure for ACEH case RO0487, 105 5th Street, Oakland.

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org

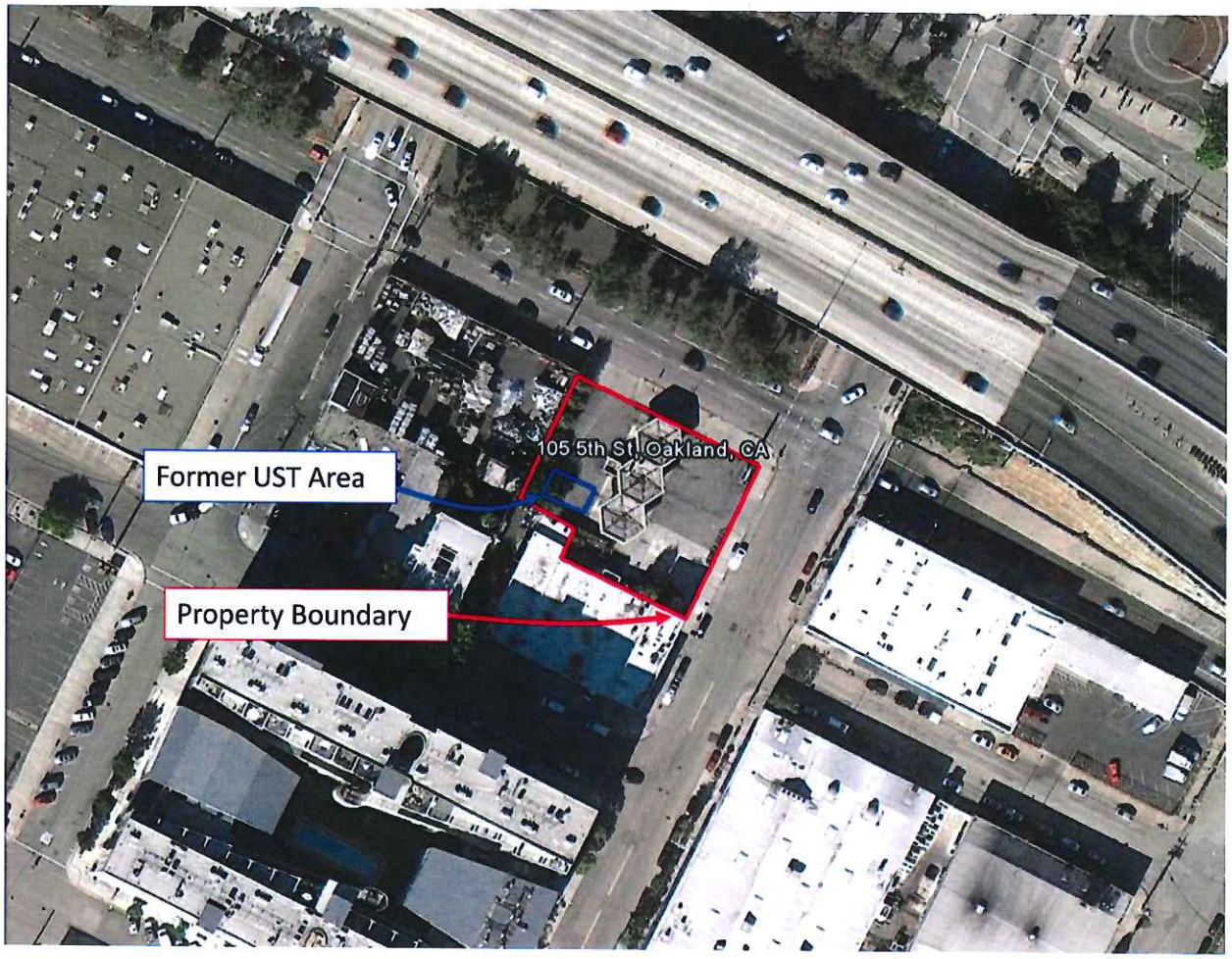


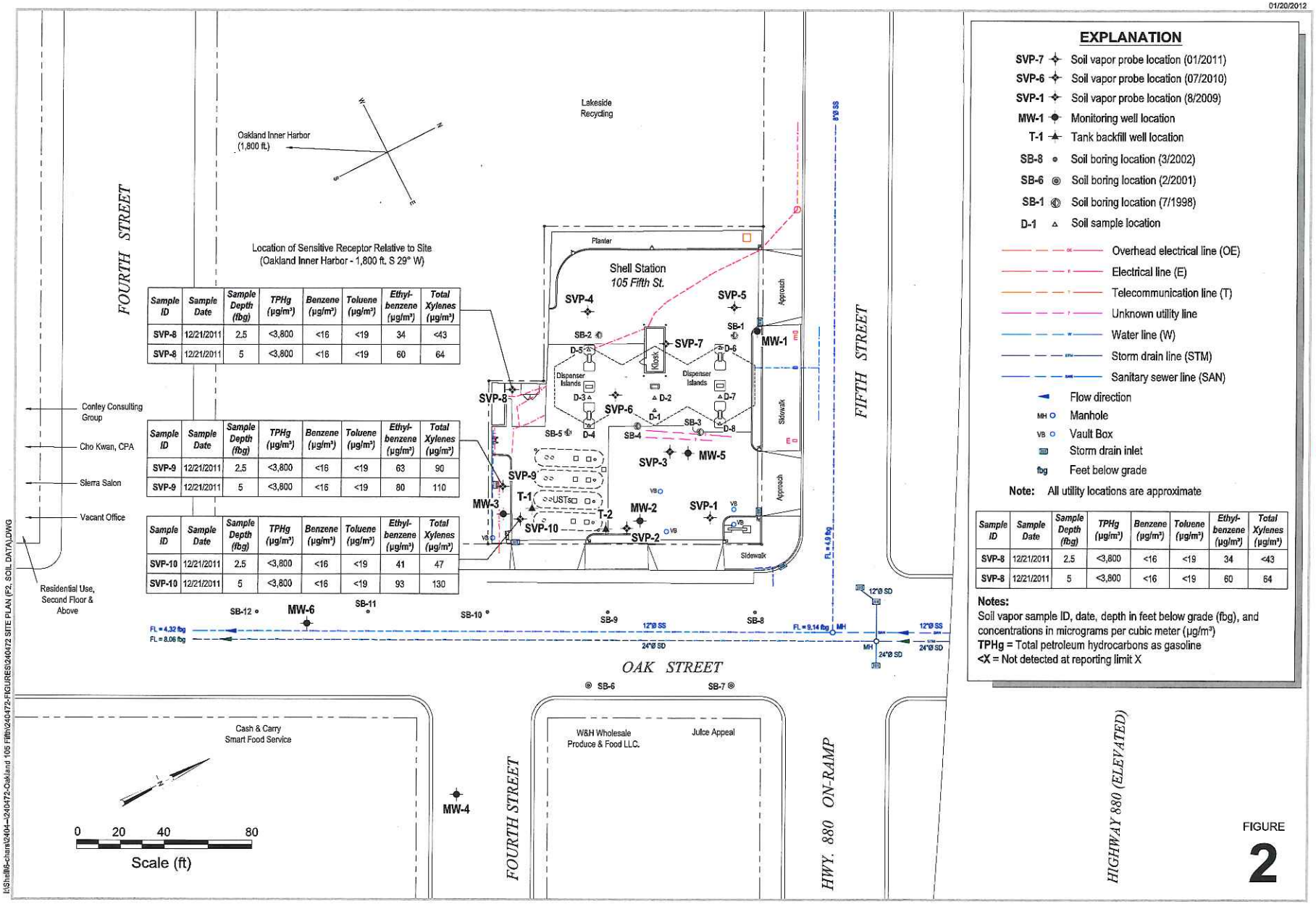
Shell-branded Service Station
105 Fifth Street
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

ATTACHMENT 1


105 5th St, Oakland, CA
Former UST Area
Property Boundary



Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-8	12/21/2011	2.5	<3,800	<16	<19	34	<43
SVP-8	12/21/2011	5	<3,800	<16	<19	60	64

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-9	12/21/2011	2.5	<3,800	<16	<19	63	90
SVP-9	12/21/2011	5	<3,800	<16	<19	80	110

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-10	12/21/2011	2.5	<3,800	<16	<19	41	47
SVP-10	12/21/2011	5	<3,800	<16	<19	93	130

EXPLANATION

- SVP-7 Soil vapor probe location (01/2011)
- SVP-6 Soil vapor probe location (07/2010)
- SVP-1 Soil vapor probe location (8/2009)
- MW-1 Monitoring well location
- T-1 Tank backfill well location
- SB-8 Soil boring location (3/2002)
- SB-6 Soil boring location (2/2001)
- SB-1 Soil boring location (7/1998)
- D-1 Soil sample location
- Overhead electrical line (OE)
- Electrical line (E)
- Telecommunication line (T)
- Unknown utility line
- Water line (W)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Flow direction
- MH Manhole
- VB Vault Box
- Storm drain inlet
- fbg Feet below grade

Note: All utility locations are approximate

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-8	12/21/2011	2.5	<3,800	<16	<19	34	<43
SVP-8	12/21/2011	5	<3,800	<16	<19	60	64

Notes:
Soil vapor sample ID, date, depth in feet below grade (fbg), and concentrations in micrograms per cubic meter (µg/m³)
TPHg = Total petroleum hydrocarbons as gasoline
<X = Not detected at reporting limit X

Soil Vapor Concentration Map

December 21, 2011

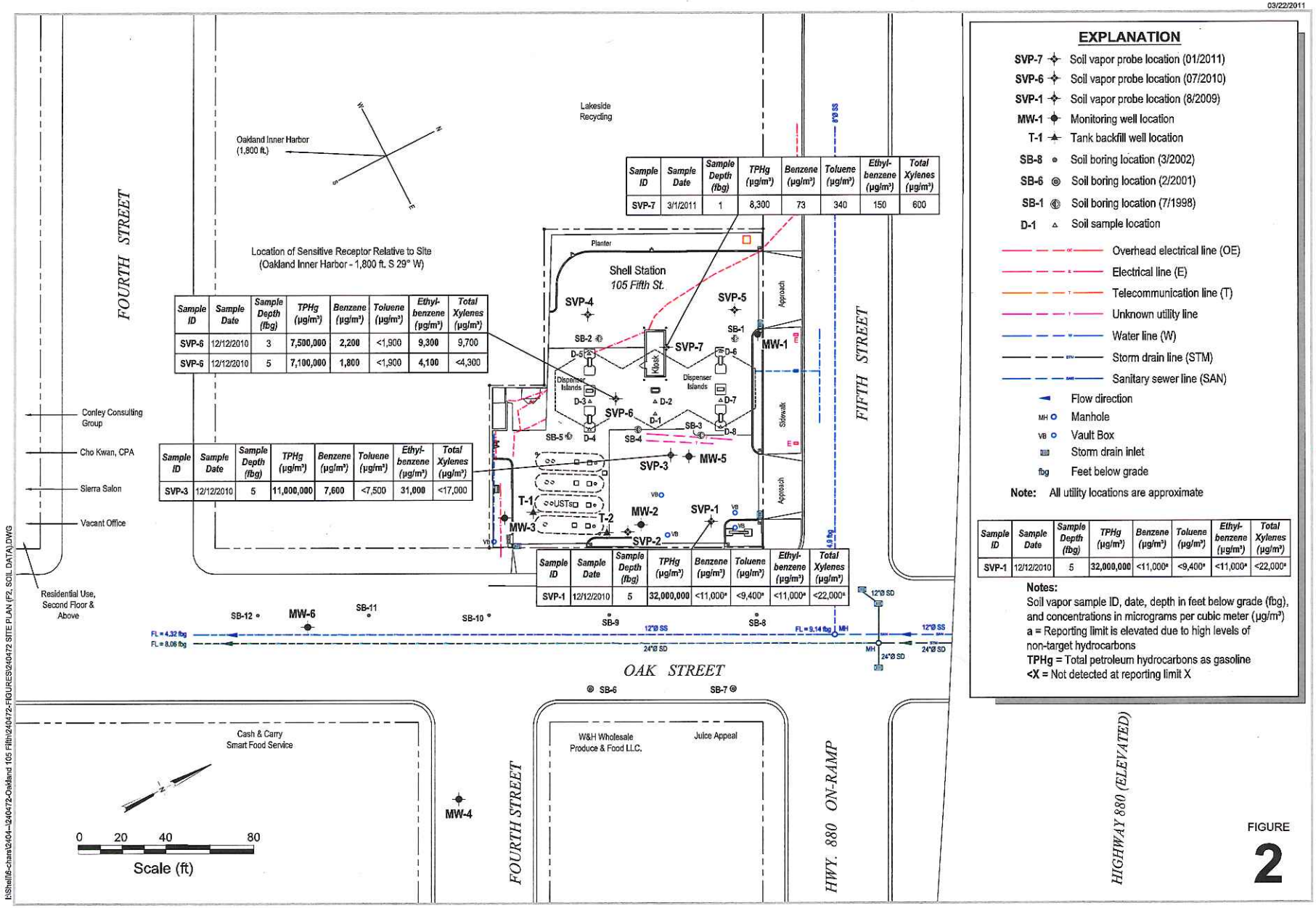
CONESTOGA-ROVERS & ASSOCIATES

Shell-branded Service Station
105 Fifth Street
Oakland, California

FIGURE
2

I:\Shell\6-chart\2404--\240472-Oakland 105 Fifth\240472-FIGURES\240472 SITE PLAN (F2, SOIL DATA).DWG

ATTACHMENT 2



Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-7	3/1/2011	1	8,300	73	340	150	600

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-6	12/12/2010	3	7,500,000	2,200	<1,900	9,300	9,700
SVP-6	12/12/2010	5	7,100,000	1,800	<1,900	4,100	<4,300

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-3	12/12/2010	5	11,000,000	7,600	<7,500	31,000	<17,000

Sample ID	Sample Date	Sample Depth (fbg)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-1	12/12/2010	5	32,000,000	<11,000[a]	<9,400[a]	<11,000[a]	<22,000[a]

EXPLANATION

- SVP-7 Soil vapor probe location (01/2011)
- SVP-6 Soil vapor probe location (07/2010)
- SVP-1 Soil vapor probe location (8/2009)
- MW-1 Monitoring well location
- T-1 Tank backfill well location
- SB-8 Soil boring location (3/2002)
- SB-6 Soil boring location (2/2001)
- SB-1 Soil boring location (7/1998)
- D-1 Soil sample location
- Overhead electrical line (OE)
- Electrical line (E)
- Telecommunication line (T)
- Unknown utility line
- Water line (W)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Flow direction
- MH Manhole
- VB Vault Box
- Storm drain inlet
- fbg Feet below grade

Note: All utility locations are approximate

Notes:
Soil vapor sample ID, date, depth in feet below grade (fbg), and concentrations in micrograms per cubic meter (µg/m³)
a = Reporting limit is elevated due to high levels of non-target hydrocarbons
TPHg = Total petroleum hydrocarbons as gasoline
<X = Not detected at reporting limit X

Soil Vapor Data Map

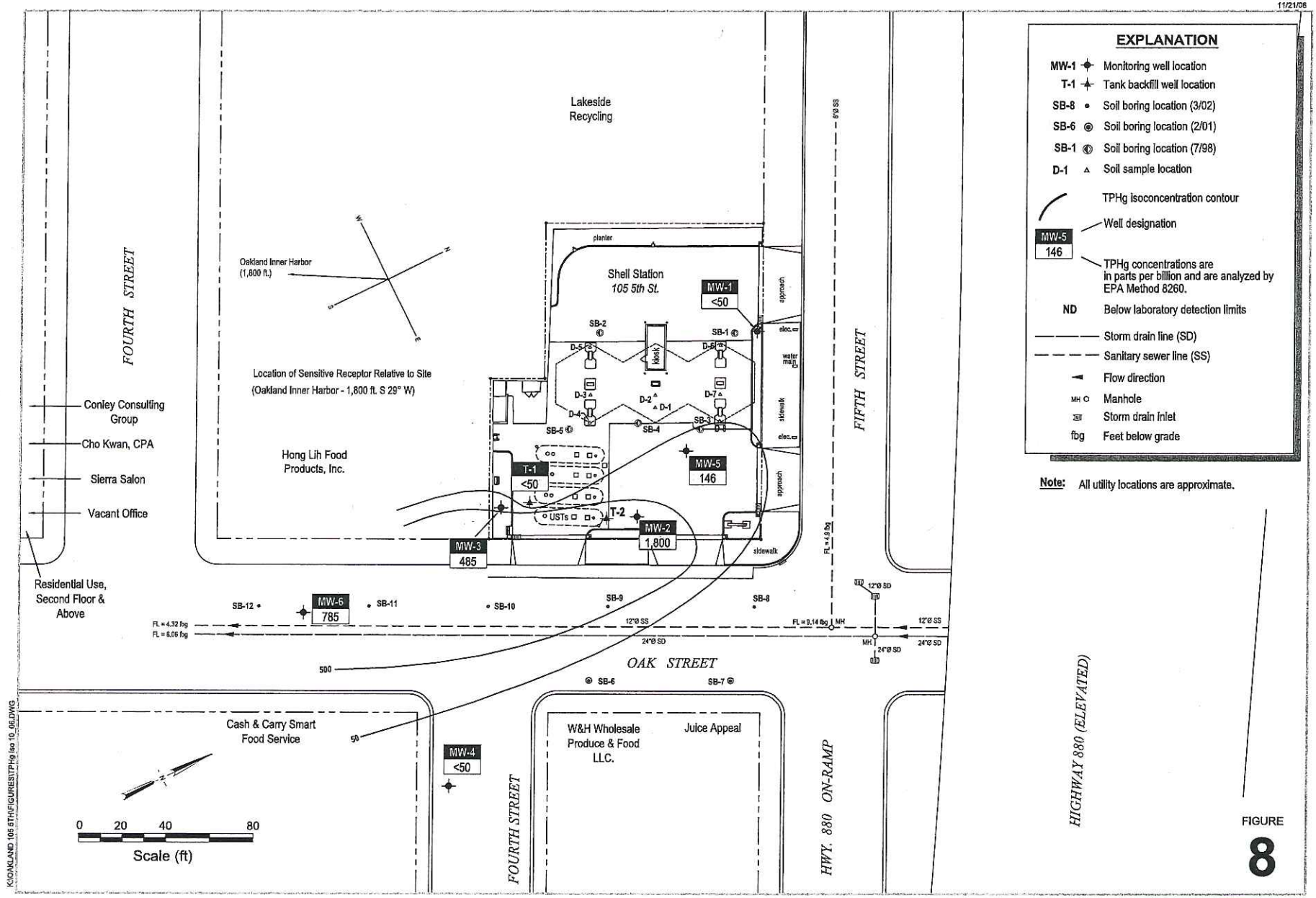
December 12, 2010 and March 1, 2011

CONESTOGA-ROVERS & ASSOCIATES

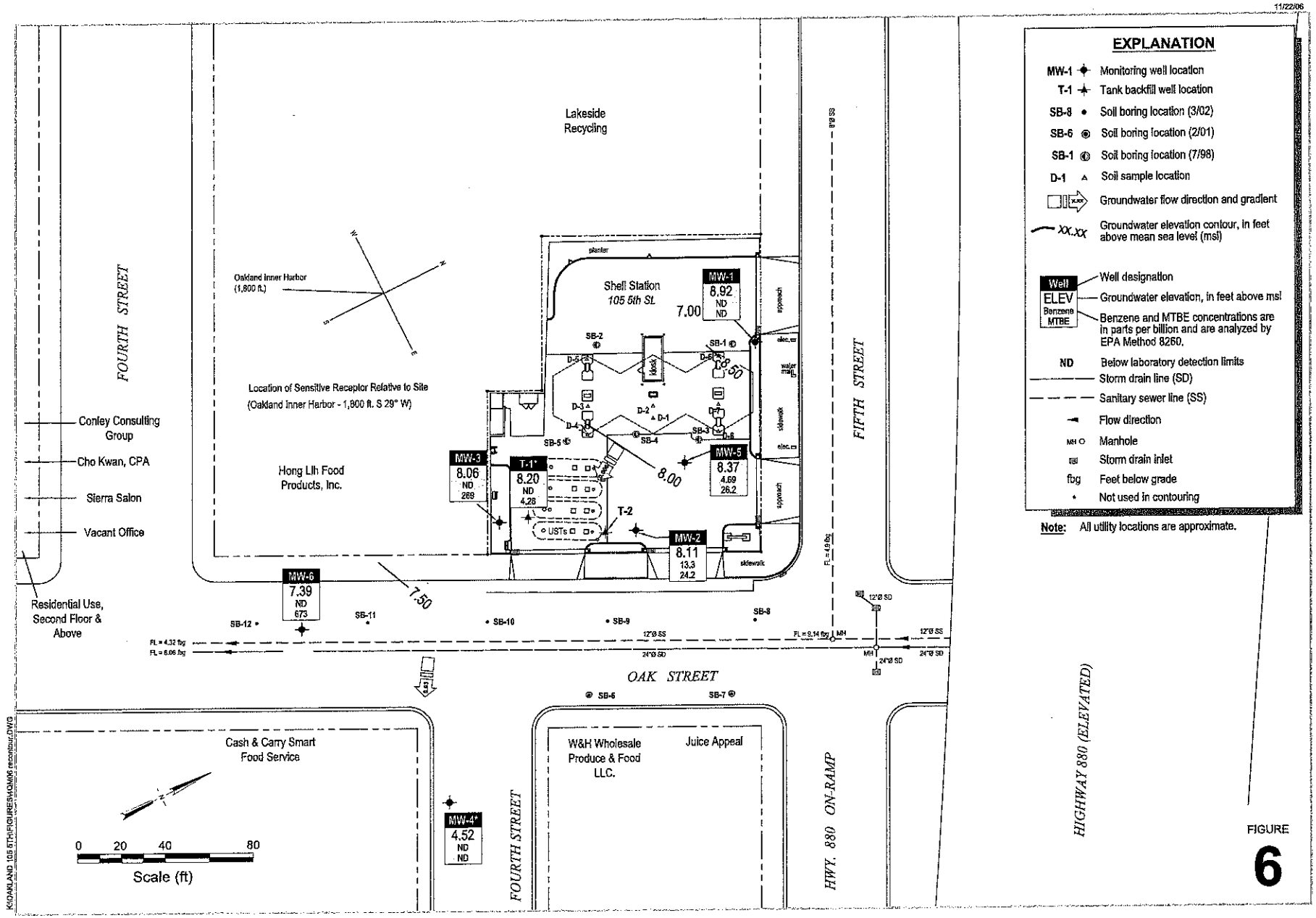
Shell-branded Service Station
105 Fifth Street
Oakland, California

FIGURE
2

I:\Shell\6-chans\2404-\240472-Oakland 105 Fifth\240472-FIGURES\240472 SITE PLAN (F2, SOIL DATA).DWG



ATTACHMENT 3



Groundwater Elevation Contour Map - 4Q06 Revised

October 11, 2006

CAMBRIA

Shell-branded Service Station
105 Fifth Street
Oakland, California

FIGURE
6

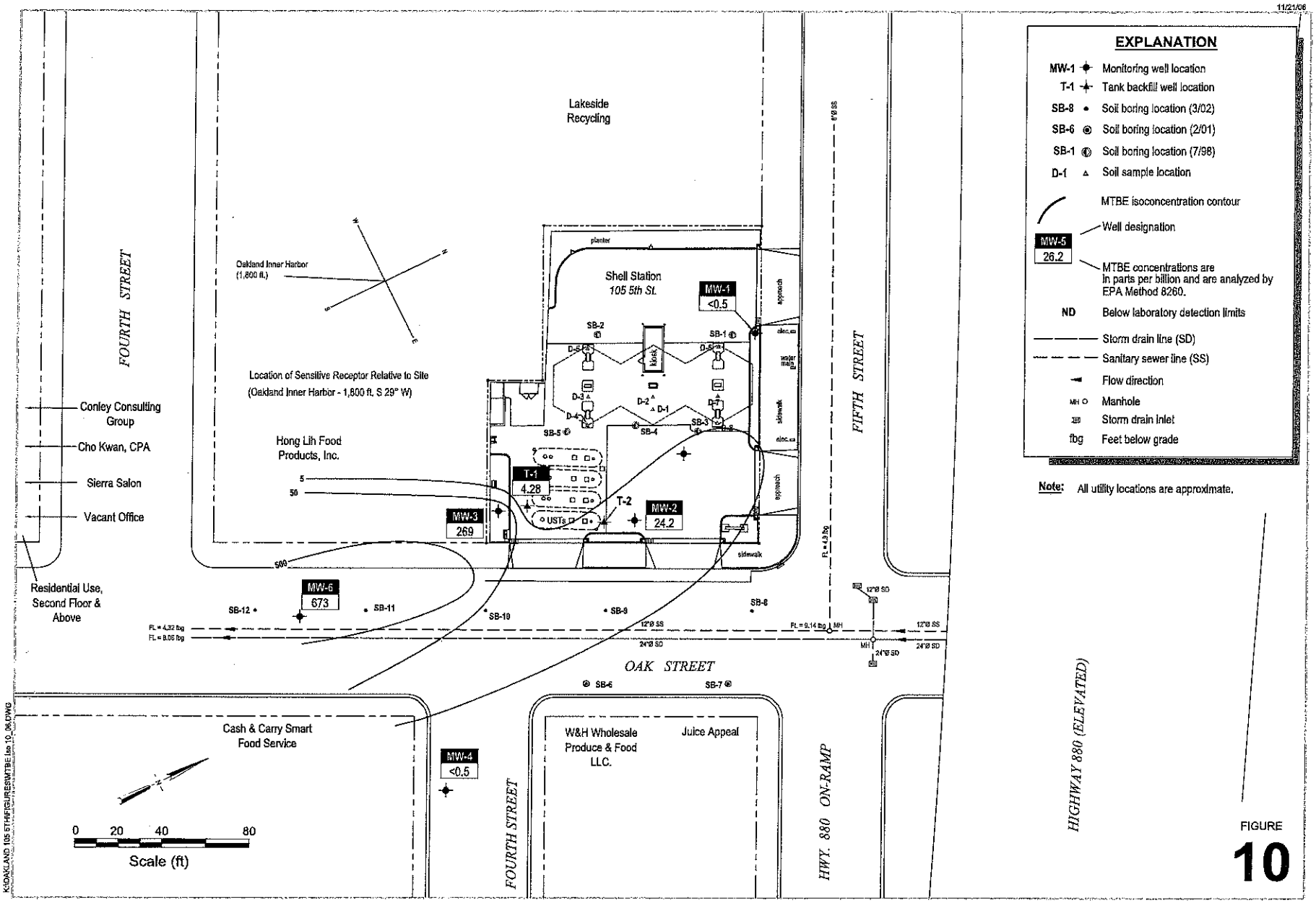
TPHd Isoconcentration Contour Map

Shell-branded Service Station
105 Fifth Street
Oakland, California

October 11, 2006

CAMBRIA

FIGURE
7



MTBE Isoconcentration Contour Map

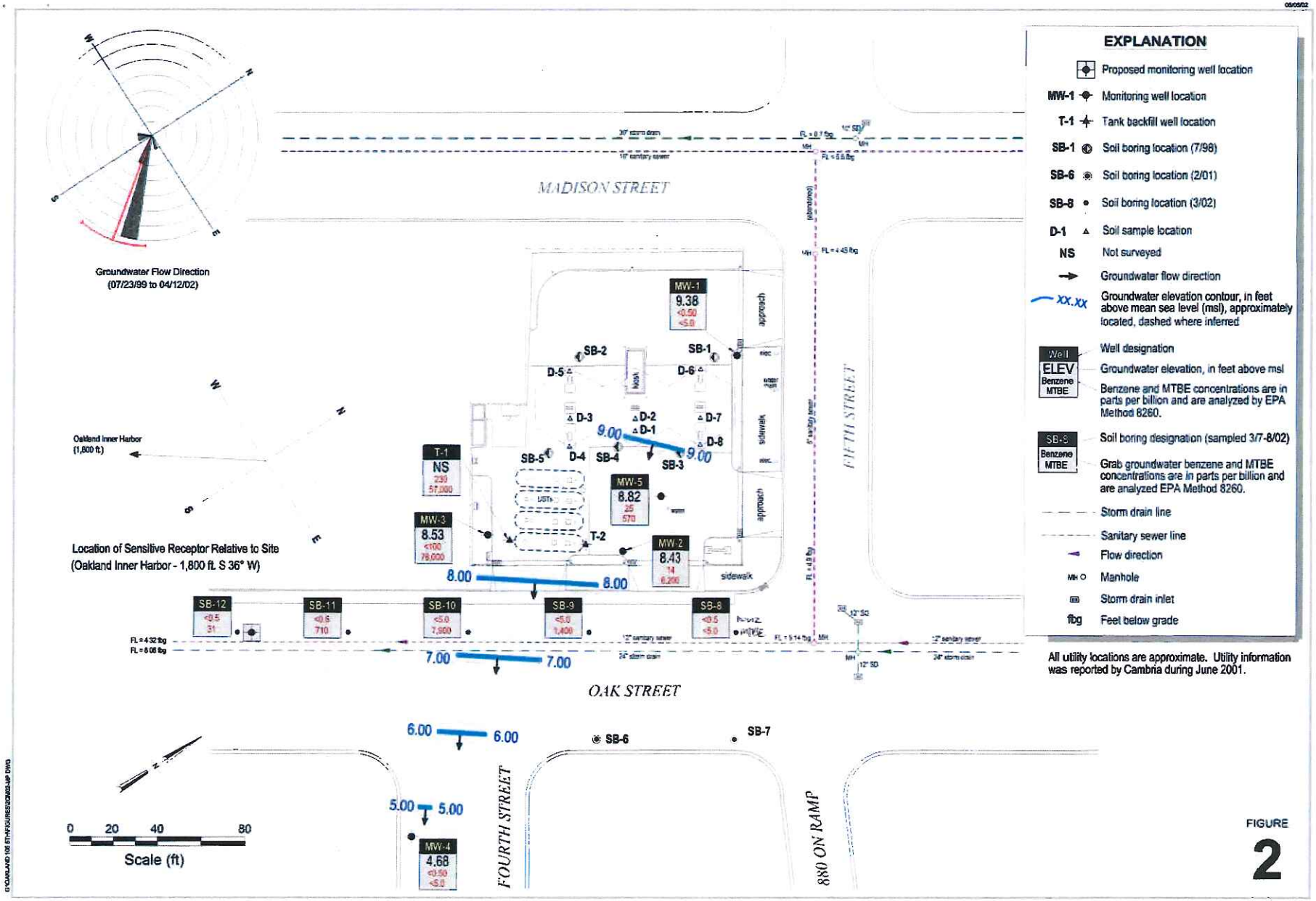
October 11, 2006

CAMBRIA

Shell-branded Service Station
105 Fifth Street
Oakland, California

FIGURE
10

11/21/06
EXPLANATION
MW-1 Monitoring well location
T-1 Tank backfill well location
SB-8 Soil boring location (3/02)
SB-6 Soil boring location (2/01)
SB-1 Soil boring location (7/98)
D-1 Soil sample location
Benzene isoconcentration contour
MW-5 4,69
Well designation
Benzene concentrations are in parts per billion and are analyzed by EPA Method 8260.
ND Below laboratory detection limits
Storm drain line (SD)
Sanitary sewer line (SS)
Flow direction
MH Manhole
Storm drain inlet
fbg Feet below grade
Note: All utility locations are approximate.
Lakeside Recycling
Shell Station
105 5th St.
MW-1 <0.5
MW-5 4,69
T-1 <0.5
MW-3 <0.5
MW-2 13.3
MW-6 <0.5
MW-4 <0.50
Oakland Inner Harbor (1,800 ft.)
Location of Sensitive Receptor Relative to Site
(Oakland Inner Harbor - 1,800 ft. S 29° W)
Hong Lih Food Products, Inc.
Conley Consulting Group
Cho Kwan, CPA
Sierra Salon
Vacant Office
Residential Use, Second Floor & Above
FOURTH STREET
FIFTH STREET
OAK STREET
HWY. 880 ON-RAMP
HIGHWAY 880 (ELEVATED)
Cash & Carry Smart Food Service
W&H Wholesale Produce & Food LLC.
Juice Appeal
0 20 40 80
Scale (ft)
K:\OAKLAND 105 5TH\FIGURES\Benzene iso 10_06.DWG
Benzene Isoconcentration Contour Map
Shell-branded Service Station
105 Fifth Street
Oakland, California
October 11, 2006
CAMBRIA
FIGURE
9



Groundwater Elevation Contour Map

April 12, 2002

CAMBRIA

Shell-branded Service Station
105 Fifth Street
Oakland, California
Incident #9899577

FIGURE
2

D:\OAKLAND 105 5TH\FIGURES\2002\GWE-MAP.DWG

Table 1. Historical Soil Analytical Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

Sample ID	Depth (fbg)	Date Sampled	TPHg (ppm)	TPHd (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)
1996 Dispenser Soil Sampling									
D-1	5	11/27/1996	**2,500**	**1,400**	**21**	**6.7**	**33**	**49**	**(26)**
D-2	5	11/27/1996	**3,200**	---	**6.4**	**22**	**36**	**210**	(<19)
D-3	5	11/27/1996	**23**	**11**	<0.025	**0.064**	**0.15**	**1.6**	**(0.30)**
D-4	5	11/27/1996	**1,900**	---	<2.5	**3.6**	**12**	**85**	(<12)
D-5	5	11/27/1996	**1.0**	---	**0.0064**	<0.0050	<0.0050	<0.0050	(<0.025)
D-6	5	11/27/1996	**1,900**	---	<1.0	**1.6**	**8.7**	**75**	(<5.0)
D-7	5	11/27/1996	**1,600**	**14,000**	<2.5	**11**	**21**	**65**	(<12)
D-8	5	11/27/1996	**3,500**	---	**5.4**	**25**	**42**	**180**	(<19)
1998 Soil Borings									
SB-1-5.0	5	7/23/1998	<1.0	**1.3**	<0.0050	<0.0050	<0.0050	<0.0050	(<0.025)
SB-2-5.0	5	7/23/1998	<1.0	**1.1**	<0.0050	<0.0050	<0.0050	<0.0050	(<0.025)
SB-3-5.0	5	7/23/1998	**2.8**	**15**	<0.0050	<0.0050	**0.0080**	**0.014**	(<0.025)
SB-4-5.0	5	7/23/1998	**1.3**	**2.5**	<0.0050	**0.0063**	**0.012**	**0.038**	**(0.13)**
SB-5-5.0	5	7/23/1998	<1.0	**8.4**	<0.0050	<0.0050	<0.0050	<0.0050	**(0.48)**
1999 Monitoring Well Installation									
MW1-5.5'	5.5	5/14/1999	<0.400	---	<0.00200	<0.00200	<0.00200	<0.00400	(<0.0100)
MW1-10.5'	10.5	5/14/1999	<0.400	---	<0.00200	<0.00200	<0.00200	<0.00400	(<0.0100)
MW1-15.5'	15.5	5/14/1999	<0.400	---	<0.00200	<0.00200	<0.00200	<0.00400	(<0.0100)
MW1-20.5'	20.5	5/14/1999	<0.400	---	<0.00200	<0.00200	<0.00200	<0.00400	(<0.0100)
MW1-25.5'	25.5	5/14/1999	<0.400	---	<0.00200	<0.00200	<0.00200	<0.00400	(<0.0100)
MW2-5.5'	5.5	5/14/1999	**1,700**	---	<2.0	<2.0	**8.52**	**5.32**	**13.2 (21.5)**
MW2-10.5'	10.5	5/14/1999	<2.0	---	**0.0369**	<0.0100	<0.0100	<0.0200	**(2.13)**
MW2-15.5'	15.5	5/14/1999	<0.400	---	<0.00200	<0.00200	<0.00200	<0.00400	**(0.0219)**
MW2-20.5'	20.5	5/14/1999	<0.400	---	<0.00200	<0.00200	<0.00200	<0.00400	**(0.0421)**
MW2-25.5'	25.5	5/14/1999	<0.400	---	<0.00200	<0.00200	<0.00200	<0.00400	**(0.0254)**
MW3-6.5'	6.5	5/14/1999	<20.0	---	<0.100	<0.100	<0.100	<0.200	**(19.2)**
MW3-11.5'	11.5	5/14/1999	<20.0	---	<0.100	<0.100	<0.100	<0.200	**8.83 (20.4)**
MW3-16.5'	16.5	5/14/1999	<20.0	---	<0.100	<0.100	<0.100	<0.200	**(9.14)**
MW3-21.5'	21.5	5/14/1999	<2.0	---	<0.0100	<0.0100	<0.0100	<0.0200	**(1.18)**
MW3-25'	25	5/14/1999	<0.400	---	<0.00200	<0.00200	<0.00200	<0.00400	**(0.201)**
2001 Monitoring Well Installation and Soil Borings									
MW-4-5	5	2/12/2001	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-4-10.0	10	2/12/2001	<1.0	---	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-4-15.0	15	2/12/2001	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
MW-4-20.0	20	2/12/2001	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

ATTACHMENT 4

Table 1. Historical Soil Analytical Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

Sample ID	Depth (fbg)	Date Sampled	TPHg (ppm)	TPHd (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Total Xylenes (ppm)	MTBE (ppm)
SB-6-5.0	5	2/12/2001	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB-6-10.0	10	2/12/2001	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB-6-15.0	15	2/12/2001	<1.0	---	<0.0050	<0.0050	<0.0050	<0.05	<0.0050
SB-6-20.0	20	2/12/2001	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB-7-5.0	5	2/12/2001	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB-7-10.0	10.5	2/12/2001	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB-7-15.0	15	2/12/2001	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
SB-7-20.0	20	2/12/2001	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
2002 Soil Borings and Monitoring Well Installation									
SB-8-8.0	8	3/7/2002	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5
SB-9-7.5	7.5	3/7/2002	**5.0**	---	<0.05	<0.05	<0.05	<0.05	**5.4**
SB-10-8.0	8	3/7/2002	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5
SB-11-7.5	7.5	3/7/2002	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5
SB-12-8.0	8	3/7/2002	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5
MW-5-5.0	5	3/8/2002	**300**	---	**0.039**	**0.039**	**2.9**	**6.0**	<0.5
MW-5-10.0	10	3/8/2002	<1.0	---	<0.005	<0.005	**0.0096**	**0.016**	<0.5
MW-5-15.0	15	3/8/2002	**9.6**	---	<0.005	<0.005	**0.15**	**0.39**	<0.5
MW-5-20.0	20	3/8/2002	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5
MW-5-23.5	23.5	3/8/2002	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5
MW-6-5.5	5.5	8/1/2002	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5
MW-6-10.5	10.5	8/1/2002	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5
MW-6-15.5	15.5	8/1/2002	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5
MW-6-20.5	20.5	8/1/2002	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5
MW-6-23.0	23	8/1/2002	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

MTBE = Methyl tertiary butyl ether

fbg = Feet below grade

ppm = Parts per million; equivalent to mg/L

mg/L = Miligrams per liter

<x = Not detected at laboratory reporting limit of x ppm.

--- = Not analyzed

TPHg analyzed by EPA Method 8015M in 1996-1999; analyzed by EPA Method 8260 in 2001-2002.

TPHd analyzed by EPA Method 8015M.

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8020 in 1996-1999; analyzed by EPA Method 8260 in 2001-2002.

MTBE analyzed by EPA Method 8260; results in parentheses analyzed by EPA Method 8020.

TABLE 1

HISTORICAL SOIL VAPOR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
105 FIFTH STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg (µg/m3)*	*B (µg/m3)*	*T (µg/m3)*	*E (µg/m3)*	*X (µg/m3)*	*Naphthalene (µg/m3)*	*Methane (%v)*	*Carbon Dioxide (%v)*	*Oxygen + Argon (%v)*	*Helium (%v)*
SVP-1	8/25/2009	5	---	7,200	<1,500	15,000	<6,900	---	---	---	---	<0.0100
SVP-1	10/1/2009	5	---	3,600	<19,000	7,800	<8,700	---	---	---	---	<0.0100
SVP-1	8/9/2010	5	49,000,000	µg/m3	<19,000 a,b	<22,000 a,b	<43,000 a,b	<52,000 a	4.11	14.1	2.18	<0.0100
SVP-1	12/12/2010	5	32,000,000	<8,000 a,b	<9,400 a,b	<11,000 a,b	<22,000 a,b	<26,000 a	2.24	10.3	2.03	<0.0100
SVP-2	8/25/2009	5	---	<3.2	24	<4.3	<17	---	---	---	---	<0.0100
SVP-3	8/25/2009	5	---	20,000	1,200	61,000	<5,200	---	---	---	---	<0.0100
SVP-3	10/1/2009	5	---	22,000	<19,000	66,000	<8,700	---	---	---	---	<0.0100
SVP-3	8/9/2010	5	13,000,000	13,000 b	<9,400 b	44,000 b	<22,000 b	<26,000	0.528	15.9	2.22	<0.0100
SVP-3	12/12/2010	5	11,000,000	7,600 b	<7,500 b	31,000 b	<17,000 b	<21,000	0.572	13.0	1.98	<0.0100
SVP-4	8/25/2009	5	---	9.0	24	50	<17	---	---	---	---	<0.0100
SVP-5	8/25/2009	5	---	280	21	1,100	35	---	---	---	---	<0.0100
SVP-6	8/9/2010	3	9,200,000	5,400 b	<1,900 b	8,200 b	14,000 b	<5,200	0.548	15.8	2.13	<0.0100
SVP-6	12/12/2010	3	7,500,000	2,200 b	<1,900 b	9,300 b	9,700 b	<5,200	<0.500	15.7	1.93	<0.0100
SVP-6	8/9/2010	5	8,400,000	3,900 b	<1,900 b	6,400 b	4,500 b	<5,200	0.558	16.8	1.80	<0.0100
SVP-6	12/12/2010	5	7,100,000	1,800 b	<1,900 b	4,100 b	<4,300 b	<5,200	<0.500	15.6	2.18	<0.0100
SVP-7	3/1/2011	1	8,300	73 b	340 b	150 b	600 b	<52	<0.500	<0.500	21.4	1.81
SVP-8	12/21/2011	2.5	<3,800	<16 b	<19 b	34 b	<43 b	<52	<0.500	3.58	19.5	0.242
SVP-8	12/21/2011	5	<3,800	<16 b	<19 b	60 b	64 b	<52	<0.500	3.53	19.5	<0.0100
SVP-9	12/21/2011	2.5	<3,800	<16 b	<19 b	63 b	90 b	<52	<0.500	2.18	21.0	<0.0100
SVP-9	12/21/2011	5	<3,800	<16 b	<19 b	80 b	110 b	<52	<0.500	3.23	19.8	0.0104

HISTORICAL SOIL VAPOR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
105 FIFTH STREET, OAKLAND, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*TPHg (µg/m3)*	*B (µg/m3)*	*T (µg/m3)*	*E (µg/m3)*	*X (µg/m3)*	*Naphthalene (µg/m3)*	*Methane (%v)*	*Carbon Dioxide (%v)*	*Oxygen + Argon (%v)*	*Helium (%v)*
SVP-10	12/21/2011	2.5	<3,800	<16 b	<19 b	41 b	47 b	<52	<0.500	3.88	16.9	0.0142
SVP-10	12/21/2011	5	<3,800	<16 b	<19 b	93 b	130 b	<52	<0.500	3.72	17.0	<0.0100
ESL c			*29,000*	*280*	*180,000*	*3,300*	*58,000*	*240*	*NA*	*NA*	*NA*	*NA*

Notes:
TPHg = Total petroleum hydrocarbons as gasoline analyzed by modified EPA Method TO-3M
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by Modified EPA Method TO-15M unless otherwise noted
Naphthalene analyzed by Modified EPA Method 8260B
Methane, carbon dioxide, and oxygen + argon analyzed by ASTM D-1946
Helium analyzed by ASTM D-1946 (M)
fbg = Feet below grade
µg/m3 = Micrograms per cubic meter
%v = Percent by volume
<x = Not detected at reporting limit x
ESL = Environmental screening level
— = Not analyzed
NA = No applicable ESL
Results in bold exceed ESL

a = Reporting limit is elevated due to high levels of non-target hydrocarbons
b = BTEX analyzed by Modified EPA Method 8260B(M)
c = San Francisco Bay Regional Water Quality Control Board (RWQCB) shallow soil gas screening level for evaluation of potential vapor intrusion concerns - commercial/industrial land use from RWQCB's *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 (Revised May 2008).

Table 2. Historical Groundwater Analytical Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

Sample ID	Depth (fbg)	Date Sampled	TPHd (ppb)	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)
1998 Soil Borings									
SB-1	--	7/23/1998	**99**	**380**	**1.1**	<0.50	**4.4**	**14**	(<2.5)
SB-2	--	7/23/1998	**190**	<50	**0.55**	<0.50	<0.50	**1.4**	(<2.5)
SB-3	--	7/23/1998	**5,500**	**90,000**	**1,300**	**490**	**3,500**	**13,000**	**(1,700)**
SB-4	--	7/23/1998	**27,000**	**24,000**	**830**	<100	**1,000**	**2,700**	**(4,100)**
SB-5	--	7/23/1998	**260**	**96**	**0.62**	<0.50	<0.50	<0.50	**(39)**
1999 Monitoring Well Installations									
MW-1	6.45	7/23/1999	--	<50.0	<0.500	<0.500	<0.500	<0.500	(<2.50)
MW-2	5.98	7/23/1999	--	**13,800**	**1,790**	<100	<100	**682**	**29,400**
MW-3	6.43	7/23/1999	--	**128**	<0.500	<0.500	<0.500	<0.500	**324,000**
2001 Soil Borings and Monitoring Well Installation									
MW-4-10W	10	2/12/2001	<50.0	<50.0	<0.50	<0.50	<0.50	<0.50	<0.50
SB-6-10.0	10	2/12/2001	<50.0	<50.0	<0.50	<0.50	<0.50	<0.50	<0.50
SB-7-10.0	10	2/12/2001	**1,400.0**	<50.0	<0.50	<0.50	<0.50	<0.50	<0.50
2002 Soil Borings									
SB-8-H2O	14	3/7/2002	--	**170**	<0.50	<0.50	<0.50	<0.50	<5.0
SB-9-H2O	16	3/7/2002	--	<500	<5.0	<5.0	<5.0	<5.0	**1.400**
SB-10-H2O	18	3/7/2002	--	<500	<5.0	<5.0	<5.0	<5.0	**7.900**
SB-11-H2O	20	3/7/2002	--	**110**	<0.50	<0.50	<0.50	<0.50	**710**
SB-12-H2O	22	3/7/2002	--	<50	<0.50	<0.50	<0.50	<0.50	**31**

Abbreviations and Notes:

TPHd = Total petroleum hydrocarbons as diesel
TPHg = Total petroleum hydrocarbons as gasoline
MTBE = Methyl tertiary butyl ether
fbg = Feet below grade
ppb = Parts per billion, equivalent to µg/L
µg/L = Micrograms per liter
-- = Not applicable or not analyzed
<x = Not detected at laboratory reporting limit x

TPHd analyzed by EPA Method 8015M.
TPHg analyzed by EPA Method 8015M in 1998-1999; analyzed by EPA Method 8260B in 2001-2002.
Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8020 in 1998-1999; analyzed by EPA Method 8260B in 2001-2002.
MTBE analyzed by EPA Method 8060B; results in parentheses analyzed by EPA Method 8020.

ATTACHMENT 5

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	7/20/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.22	17.56	-5.34	NA
MW-1	7/23/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	<2.00	NA	NA	NA	NA	NA	NA	NA	12.22	6.45	5.77	NA
MW-1	11/1/1999	100	NA	15.6	3.12	4.04	12.6	6.69	NA	NA	NA	NA	NA	NA	NA	NA	12.22	6.59	5.63	0.5/0.7
MW-1	1/5/2000	<50.0	<20.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	12.22	6.38	5.84	1.2/1.4
MW-1	4/7/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	12.22	5.83	6.39	1.6/2.4
MW-1	7/26/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	12.22	6.10	6.12	1.1/1.4
MW-1	10/28/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	12.22	14.08	-1.86	2.2/2.7
MW-1	1/30/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	12.22	10.71	1.51	1.2/1.6
MW-1	4/17/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	12.22	6.61	5.61	2.4/4.4
MW-1	7/9/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.22	6.31	5.91	1.4/3.4
MW-1	10/23/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.22	6.24	5.98	2.6/4.1
MW-1	1/7/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.22	5.25	6.97	NA
MW-1	4/12/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	14.92	5.54	9.38	NA
MW-1	7/10/2002	<50	74	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	14.92	5.98	8.94	NA
MW-1	10/15/2002	<50	51	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	14.92	5.46	9.46	NA
MW-1	1/29/2003	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	14.92	5.03	9.89	NA
MW-1	4/30/2003	<50	110	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	14.92	4.70	10.22	NA
MW-1	7/22/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	6.05	8.87	NA
MW-1	10/9/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	6.13	8.79	NA
MW-1	1/5/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	5.44	9.48	NA
MW-1	4/12/2004	<50	1,000 c	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	5.75	9.17	NA
MW-1	7/2/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	5.93	8.99	NA
MW-1	10/8/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	5.94	8.98	NA
MW-1	1/10/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	5.17	9.75	NA
MW-1	4/15/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	5.45	9.47	NA
MW-1	7/15/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	5.93	8.99	NA
MW-1	10/20/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	14.92	6.21	8.71	NA
MW-1	1/24/2006	<50.0	<105	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	NA	NA	NA	14.92	5.59	9.33	NA
MW-1	4/14/2006	<50.0	<50.0 h	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	NA	NA	NA	14.92	5.13	9.79	NA
MW-1	7/25/2006	<50.0	<94.3	<0.500	0.770	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	NA	NA	NA	14.92	5.85	9.07	NA
MW-1	10/11/2006	<50.0	<46.9 h	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	14.92	6.00	8.92	NA
MW-1	1/19/2007	<50	<50 h	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	NA	14.92	5.95	8.97	NA
MW-1	4/2/2007	<50 l	<50 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	14.92	5.80	9.12	NA
MW-1	7/19/2007	<50 l	<50 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	14.92	5.91	9.01	NA

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	10/16/2007	<50 l	64 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	14.92	5.98	8.94	NA
MW-1	1/23/2008	<50 l	<50 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	14.92	5.59	9.33	NA
MW-1	4/2/2008	<50	<50 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	14.92	5.75	9.17	NA
MW-1	7/8/2008	<50	57 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	14.92	6.33	8.59	NA
MW-1	**10/2/2008**	**<50**	**<50 h**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**<1.0**	**<2.0**	**<2.0**	**<2.0**	**<10**	**NA**	**NA**	**NA**	**14.92**	**6.10**	**8.82**	**NA**
MW-2	7/20/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.87	18.24	-7.37	NA
MW-2	7/23/1999	13,800	NA	1,790	<100	<100	682	29,900	29,400	NA	NA	NA	NA	NA	NA	NA	10.87	5.98	4.89	NA
MW-2	11/1/1999	2,420	NA	316	10.8	119	44.2	17,000	NA	NA	NA	NA	NA	NA	NA	NA	10.87	6.03	4.84	0.5/0.3
MW-2	1/5/2000	2,120a	687	301a	<5.00a	116a	84.4a	14,700	NA	NA	NA	NA	NA	NA	NA	NA	10.87	5.90	4.97	2.1/2.6
MW-2	4/7/2000	4,940b	1,300	659b	<25.0b	214b	314b	41,800b	NA	NA	NA	NA	NA	NA	NA	NA	10.87	5.37	5.50	0.4/0.2
MW-2	7/26/2000	5,010	1,520	409	<50.0	302	307	54,300	NA	NA	NA	NA	NA	NA	NA	NA	10.87	5.81	5.06	2.1/2.2
MW-2	10/26/2000	1,720	412	82.2	<10.0	46.0	102	9,800	NA	NA	NA	NA	NA	NA	NA	NA	10.87	14.59	-3.72	0.7/0.7
MW-2	1/30/2001	1,640	574	14.7	<5.00	40.1	58.1	3,670	NA	NA	NA	NA	NA	NA	NA	NA	10.87	10.31	0.56	1.8/2.0
MW-2	4/17/2001	598	179	21.8	<2.00	16.9	10.8	5,630	NA	NA	NA	NA	NA	NA	NA	NA	10.87	6.08	4.79	1.5/2.6
MW-2	7/9/2001	<1,000	<500	19	<10	33	15	NA	6,200	NA	NA	NA	NA	NA	NA	NA	10.87	5.70	5.17	1.1/2.0
MW-2	10/23/2001	<5,000	<500	50	<25	92	<25	NA	13,000	<25	<25	<25	820	NA	NA	<500	10.87	5.72	5.15	2.0/3.2
MW-2	1/7/2002	<1,000	<200	<10	<10	<10	<10	NA	4,500	NA	NA	NA	NA	NA	NA	NA	10.87	4.87	6.00	NA
MW-2	4/12/2002	<1,000	<100	14	<10	27	13	NA	6,200	NA	NA	NA	NA	NA	NA	NA	13.57	5.14	8.43	NA
MW-2	7/10/2002	<1,000	290	<10	<10	14	<10	NA	6,100	NA	NA	NA	NA	NA	NA	NA	13.57	5.45	8.12	NA
MW-2	10/15/2002	<100	85	1.2	<1.0	<1.0	<1.0	NA	640	NA	NA	NA	NA	NA	NA	NA	13.57	5.38	8.19	NA
MW-2	1/29/2003	<500	<300	10	<5.0	16	6.3	NA	1,700	NA	NA	NA	NA	NA	NA	NA	13.57	5.14	8.43	NA
MW-2	4/30/2003	<5,000	440	<50	<50	58	<100	NA	5,000	NA	NA	NA	NA	NA	NA	NA	13.57	4.83	8.74	NA
MW-2	7/22/2003	2,300	1,000 c	76	<10	140	<20	NA	3,700	NA	NA	NA	NA	NA	NA	NA	13.57	5.61	7.96	NA
MW-2	10/9/2003	150	120 c	3.9	<1.0	6.4	<2.0	NA	210	NA	NA	NA	NA	NA	NA	NA	13.57	5.59	7.98	NA
MW-2	1/5/2004	1,300	450 c	34	<5.0	53	<10	NA	700	NA	NA	NA	NA	NA	NA	NA	13.57	5.04	8.53	NA
MW-2	4/12/2004	820	320 c	25	<5.0	33	<10	NA	560	NA	NA	NA	NA	NA	NA	NA	13.57	5.26	8.31	NA
MW-2	7/2/2004	2,000	850 c	60	<5.0	110	<10	NA	1,800	<20	<20	<20	6,200	NA	NA	NA	13.57	5.43	8.14	NA
MW-2	10/8/2004	540	210 d	5.2	<5.0	<5.0	<10	NA	90	NA	NA	NA	NA	NA	NA	NA	13.57	5.41	8.16	NA
MW-2	1/10/2005	990	400 d	19	<2.0	27	25	NA	<2.0	NA	NA	NA	NA	NA	NA	NA	13.57	4.74	8.83	NA
MW-2	4/15/2005	1,200	650 c	44	<10	45	<20	NA	760	NA	NA	NA	NA	NA	NA	NA	13.57	5.05	8.52	NA
MW-2	7/15/2005	<200	320 d	14	<2.0	7.3	<4.0	NA	110	<8.0	<8.0	<8.0	1,800	NA	NA	NA	13.57	5.35	8.22	NA
MW-2	10/20/2005	430	350 c	14	<2.0	6.7	<4.0	NA	64	NA	NA	NA	NA	NA	NA	NA	13.57	5.70	7.87	NA
MW-2	1/24/2006	1,570	712 g	18.9	<0.500	20.9	<0.500	NA	47.7	NA	NA	NA	NA	NA	NA	NA	13.57	5.15	8.42	NA

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	4/14/2006	1,430	763 h	23.5	2.61	28.3	41.0	NA	61.0	NA	NA	NA	915	NA	NA	NA	13.57	4.72	8.85	NA
MW-2	7/25/2006	234	455	6.32 i	<0.500	1.22	<0.500	NA	26.4	<0.500	<0.500	<0.500	591	NA	NA	NA	13.57	5.26	8.31	NA
MW-2	10/11/2006	1,800	585 h	13.3	<0.500	10.1	<0.500	NA	24.2	<0.500	<0.500	<0.500	570	NA	NA	NA	13.57	5.46	8.11	NA
MW-2	1/19/2007	870	250 h	13	0.37 j	13	<1.0	NA	24	<1.0	<1.0	<1.0	620	NA	NA	NA	13.57	5.55	8.02	NA
MW-2	4/2/2007	1,500 l	1,000 h	25	0.71 n	31	0.76 n	NA	21	<2.0	<2.0	<2.0	660	NA	NA	NA	13.57	5.35	8.22	NA
MW-2	7/19/2007	320 l	270 h	3.5	<1.0	2.3	<1.0	NA	14	<2.0	<2.0	<2.0	230	NA	NA	NA	13.57	5.72	7.85	NA
MW-2	10/16/2007	1,300 l,m	910 h	11	0.67 n	13	<1.0	NA	14	<2.0	<2.0	<2.0	460	NA	NA	NA	13.57	6.46	7.11	NA
MW-2	1/23/2008	410 l	<50 h	9.0	0.44 n	8.5	<1.0	NA	17	<2.0	<2.0	<2.0	400	NA	NA	NA	13.57	5.37	8.20	NA
MW-2	4/2/2008	1,000	360 h,m	8.1	<1.0	10	<1.0	NA	13	<2.0	<2.0	<2.0	280	NA	NA	NA	13.57	5.32	8.25	NA
MW-2	7/8/2008	980	1,000 h,m	3.8	<2.0	3.7	<2.0	NA	7.8	<4.0	<4.0	<4.0	140	NA	NA	NA	13.57	5.58	7.99	NA
MW-2	**10/2/2008**	**320**	**84 h**	**2.0**	**<1.0**	**<1.0**	**<1.0**	**NA**	**4.3**	**<2.0**	**<2.0**	**<2.0**	**200**	**NA**	**NA**	**NA**	**13.57**	**5.60**	**7.97**	**NA**
MW-3	7/20/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.27	19.07	-7.80	NA
MW-3	7/23/1999	128	NA	<0.500	<0.500	<0.500	<0.500	404,000	324,000	NA	NA	NA	NA	NA	NA	NA	11.27	6.43	4.84	NA
MW-3	11/1/1999	<1,000	NA	<10.0	<10.0	<10.0	<10.0	169,000	224,000	NA	NA	NA	NA	NA	NA	NA	11.27	6.48	4.79	0.5/0.3
MW-3	1/5/2000	137	322	<1.00	<1.00	<1.00	<1.00	165,000	219,000	NA	NA	NA	NA	NA	NA	NA	11.27	6.35	4.92	2.4/2.2
MW-3	4/7/2000	<1,000	264	853	<10.0	<10.0	<10.0	283,000	196,000a	NA	NA	NA	NA	NA	NA	NA	11.27	5.91	5.36	04/0.2
MW-3	7/26/2000	<20,000	585	<200	<200	<200	<200	437,000	320,000	NA	NA	NA	NA	NA	NA	NA	11.27	5.83	5.44	1.9/1.7
MW-3	10/28/2000	<12,500	441	<125	<125	<125	<125	266,000	308,000	NA	NA	NA	NA	NA	NA	NA	11.27	17.51	-6.24	1.1/1.4
MW-3	1/30/2001	<5,000	555	<50.0	<50.0	<50.0	<50.0	248,000	167,000a	NA	NA	NA	NA	NA	NA	NA	11.27	11.43	-0.16	2.0/2.2
MW-3	4/17/2001	<5,000	347	<50.0	<50.0	<50.0	<50.0	134,000	133,000	NA	NA	NA	NA	NA	NA	NA	11.27	6.57	4.70	1.3/1.2
MW-3	7/9/2001	<20,000	250	<200	<200	<200	<200	NA	170,000	NA	NA	NA	NA	NA	NA	NA	11.27	6.12	5.15	1.2/1.9
MW-3	10/23/2001	<50,000	260	<250	<250	<250	<250	NA	180,000	<250	<250	<250	53,000	NA	NA	<5,000	11.27	6.25	5.02	2.2/1.6
MW-3	1/7/2002	<10,000	160	<100	<100	<100	<100	NA	96,000	NA	NA	NA	NA	NA	NA	NA	11.27	5.29	5.98	NA
MW-3	4/12/2002	<10,000	87	<100	<100	<100	<100	NA	78,000	NA	NA	NA	NA	NA	NA	NA	13.96	5.43	8.53	NA
MW-3	7/10/2002	<20,000	150	<200	<200	<200	<200	NA	64,000	NA	NA	NA	NA	NA	NA	NA	13.96	6.33	7.63	NA
MW-3	10/15/2002	<10,000	120	<100	<100	<100	<100	NA	44,000	<100	NA	<100	9,100	<100	<100	NA	13.96	5.96	8.00	NA
MW-3	1/2/2003	NA	NA	<5.0	<5.0	<5.0	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.96	5.40	8.56	NA
MW-3	1/29/2003	<2,500	96	<25	<25	<25	<25	NA	19,000	<25	NA	<25	14,000	<25	<25	NA	13.96	5.68	8.28	NA
MW-3	4/30/2003	<25,000	360	<250	<250	<250	<500	NA	14,000	<1,000	NA	<1,000	24,000	<250	<250	NA	13.96	5.34	8.62	NA
MW-3	7/22/2003	<5,000	230 c	<50	<50	<50	<100	NA	17,000	<200	NA	<200	21,000	<50	<50	NA	13.96	6.15	7.81	NA
MW-3	10/9/2003	<5,000	150 c	<50	<50	<50	<100	NA	14,000	<200	NA	<200	11,000	<50	<50	NA	13.96	5.98	7.98	NA
MW-3	1/5/2004	<5,000	790 c	<50	<50	<50	<100	NA	4,700	<200	NA	<200	11,000	<50	<50	NA	13.96	5.45	8.51	NA
MW-3	4/12/2004	<25,000	270 c	<250	<250	<250	<500	NA	23,000	<1,000	NA	<1,000	12,000	<250	<250	NA	13.96	5.66	8.30	NA

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105 5th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3	7/2/2004	<10,000	280 c	<100	<100	<100	<200	NA	18,000	<400	NA	<400	4,500	120	<100	NA	13.96	5.85	8.11	NA
MW-3	10/8/2004	<10,000	250 c	<100	<100	<100	<200	NA	29,000	<400	NA	<400	14,000	<100	<100	NA	13.96	5.88	8.08	NA
MW-3	1/10/2005	<10,000	220 c	<100	<100	<100	<200	NA	13,000	<400	NA	<400	17,000	<100	<100	NA	13.96	5.20	8.76	NA
MW-3	4/15/2005	510	530 c	140	<5.0	<5.0	<10	NA	180	<20	NA	<20	1,600	<5.0	<5.0	NA	13.96	5.51	8.45	NA
MW-3	7/15/2005	<2,500	100 c	<25	42	<25	62	NA	3,700	<100	<100	<100	5,300	<25	<25	NA	13.96	5.75	8.21	NA
MW-3	10/20/2005	<2,500	250 c	<25	<25	<25	<50	NA	2,600	NA	NA	NA	6,300	NA	NA	NA	13.96	6.22	7.74	NA
MW-3	1/24/2006	3,050	414 f	<0.500	<0.500	<0.500	<0.500	NA	2,150	NA	NA	NA	5,510	NA	NA	NA	13.96	5.63	8.33	NA
MW-3	4/14/2006	2,070	762 h	<0.500	<0.500	<0.500	<0.500	NA	1,720	NA	NA	NA	3,240	NA	NA	NA	13.96	5.20	8.76	NA
MW-3	7/25/2006	403	332	<0.500	<0.500	<0.500	<0.500	NA	318	<0.500	<0.500	<0.500	1,110	<0.500	<0.500	NA	13.96	5.76	8.20	NA
MW-3	10/11/2006	485	620 h	<0.500	<0.500	<0.500	<0.500	NA	269	<0.500	<0.500	<0.500	552	NA	NA	NA	13.96	5.90	8.06	NA
MW-3	1/19/2007	47 j	<50 h	<0.50	<0.50	<0.50	<1.0	NA	5.9	<1.0	<1.0	<1.0	110	NA	NA	NA	13.96	6.00	7.96	NA
MW-3	4/2/2007	100 l,m	300 h	<0.50	<1.0	<1.0	<1.0	NA	140	<2.0	<2.0	<2.0	330	NA	NA	NA	13.96	5.74	8.22	NA
MW-3	7/19/2007	61 l,m	240 h	<0.50	<1.0	<1.0	<1.0	NA	52	<2.0	<2.0	<2.0	93	NA	NA	NA	13.96	5.98	7.98	NA
MW-3	10/16/2007	67 l	120 h	0.45 n	<1.0	<1.0	<1.0	NA	34	<2.0	<2.0	<2.0	38	NA	NA	NA	13.96	5.94	8.02	NA
MW-3	1/23/2008	<50 l	65 h,m	<0.50	<1.0	<1.0	<1.0	NA	15	<2.0	<2.0	<2.0	<10	NA	NA	NA	13.96	5.58	8.38	NA
MW-3	4/2/2008	<50	58 h	<0.50	<1.0	<1.0	<1.0	NA	13	<2.0	<2.0	<2.0	<10	NA	NA	NA	13.96	4.71	9.25	NA
MW-3	7/8/2008	<50	290 h	<0.50	<1.0	<1.0	<1.0	NA	1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	13.96	5.91	8.05	NA
MW-3	**10/2/2008**	**<50**	**270 h**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**1.6**	**<2.0**	**<2.0**	**<2.0**	**<10**	**NA**	**NA**	**NA**	**13.96**	**6.10**	**7.86**	**NA**
MW-4	3/23/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.50	8.21	1.29	NA
MW-4	4/17/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	NA	NA	9.50	5.08	4.42	2.4/2.6
MW-4	7/9/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	9.50	4.64	4.86	2.0/1.5
MW-4	10/23/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	9.50	7.90	1.60	2.8/1.8
MW-4	1/7/2002	<50	64	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	9.50	5.00	4.50	NA
MW-4	4/12/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.17	7.49	4.68	NA
MW-4	7/10/2002	<50	67	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.17	4.75	7.42	NA
MW-4	10/15/2002	<50		<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.17	4.56	7.61	NA
MW-4	1/29/2003	<50	73	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.17	4.34	7.83	NA
MW-4	4/30/2003	<50	140	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	12.17	5.45	6.72	NA
MW-4	7/22/2003	<50	63 c	<0.50	<0.50	<0.50	<1.0	NA	3.1	NA	NA	NA	NA	NA	NA	NA	12.17	6.46	5.71	NA
MW-4	10/9/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	12.17	7.11	5.06	NA
MW-4	1/5/2004	<50	66 c	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	12.17	7.72	4.45	NA
MW-4	4/12/2004	<50	110 c	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	12.17	5.80	6.37	NA
MW-4	7/2/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	12.17	6.24	5.93	NA

WELL CONCENTRATIONS
Shell-branded Service Station
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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-4	10/8/2004	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	12.17	7.17	5.00	NA
MW-4	1/10/2005	<50	55 c	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	12.17	5.55	6.62	NA
MW-4	4/15/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	12.17	5.89	6.28	NA
MW-4	7/15/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<2.0	<2.0	<2.0	<5.0	NA	NA	NA	12.17	7.27	4.90	NA
MW-4	10/20/2005	<50	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	12.17	7.15	5.02	NA
MW-4	1/24/2006	<50.0	<108	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	NA	NA	NA	12.17	4.80	7.37	NA
MW-4	4/14/2006	<50.0	127 h	<0.500	<0.500	<0.500	<0.500	NA	<0.500	NA	NA	NA	NA	NA	NA	NA	12.17	6.00	6.17	NA
MW-4	7/25/2006	<50.0	129	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	44.8	NA	NA	NA	12.17	7.31	4.86	NA
MW-4	10/11/2006	<50.0	218 h	<0.500	<0.500	<0.500	<0.500	NA	<0.500	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	12.17	7.65	4.52	NA
MW-4	1/19/2007	<50	<50 h	<0.50	<0.50	<0.50	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	NA	12.17	4.54	7.63	NA
MW-4	4/2/2007	<50 I	86 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	12.17	4.43	7.74	NA
MW-4	7/19/2007	<50 I	53 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	12.17	5.28	6.89	NA
MW-4	10/16/2007	<50 I	<50 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	12.17	6.27	5.90	NA
MW-4	1/23/2008	<50 I	<50 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	12.17	7.51	4.66	NA
MW-4	4/2/2008	<50	<50 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	12.17	6.74	5.43	NA
MW-4	7/8/2008	<50	<50 h	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	12.17	4.87	7.30	NA
MW-4	**10/2/2008**	**<50**	**<50 h**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**NA**	**<1.0**	**<2.0**	**<2.0**	**<2.0**	**<10**	**NA**	**NA**	**NA**	**12.17**	**5.80**	**6.37**	**NA**
MW-5	3/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.78	5.86	8.92	NA
MW-5	4/12/2002	1,600	<50	25	3.5	44	110	NA	570	NA	NA	NA	NA	NA	NA	NA	14.78	5.96	8.82	NA
MW-5	7/10/2002	930	<400	36	<2.0	93	8.8	NA	630	NA	NA	NA	NA	NA	NA	NA	14.78	6.57	8.21	NA
MW-5	10/15/2002	200	90	9.9	<0.50	19	5.5	NA	180	NA	NA	NA	NA	NA	NA	NA	14.78	6.17	8.61	NA
MW-5	1/29/2003	120	85	6.0	<0.50	2.9	2.6	NA	220	NA	NA	NA	NA	NA	NA	NA	14.78	5.85	8.93	NA
MW-5	4/30/2003	<250	160	5.5	<2.5	7.2	7.7	NA	250	NA	NA	NA	NA	NA	NA	NA	14.78	5.53	9.25	NA
MW-5	7/22/2003	520	190 c	63	<5.0	41	14	NA	810	NA	NA	NA	NA	NA	NA	NA	14.78	6.45	8.33	NA
MW-5	10/9/2003	160	86 c	3.2	<1.0	7.0	3.9	NA	250	NA	NA	NA	NA	NA	NA	NA	14.78	6.54	8.24	NA
MW-5	1/5/2004	290	95 c	11	<2.5	8.5	<5.0	NA	380	NA	NA	NA	NA	NA	NA	NA	14.78	5.90	8.88	NA
MW-5	4/12/2004	280	54 c	9.0	<2.5	12	<5.0	NA	400	NA	NA	NA	NA	NA	NA	NA	14.78	6.19	8.59	NA
MW-5	7/2/2004	660	280 c	34	3.6	42	17	NA	550	<10	<10	<10	400	NA	NA	NA	14.78	6.33	8.45	NA
MW-5	10/8/2004	<250	61 d	<2.5	<2.5	2.6	<5.0	NA	260	NA	NA	NA	NA	NA	NA	NA	14.78	6.32	8.46	NA
MW-5	1/10/2005	<100	110 d	2.7	<1.0	6.0	<2.0	NA	240	NA	NA	NA	NA	NA	NA	NA	14.78	5.65	9.13	NA
MW-5	4/15/2005	160	110 d	7.8	<0.50	15	2.5	NA	160	NA	NA	NA	NA	NA	NA	NA	14.78	5.95	8.83	NA
MW-5	7/15/2005	<50	63 d	3.6	<0.50	3.4	<1.0	NA	99	<2.0	<2.0	<2.0	120	NA	NA	NA	14.78	6.31	8.47	NA
MW-5	10/20/2005	160	120 c	5.1	<0.50	17	1.4	NA	79	NA	NA	NA	NA	NA	NA	NA	14.78	6.66	8.12	NA

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MW-5	1/24/2006	<50.0	<105	0.840	<0.500	3.53	<0.500	NA	45.2	NA	NA	NA	NA	NA	NA	NA	14.78	6.10	8.68	NA
MW-5	4/14/2006	<50.0	89.2 h	3.00	<0.500	2.70	<0.500	NA	45.8	NA	NA	NA	24.6	NA	NA	NA	14.78	5.63	9.15	NA
MW-5	7/25/2006	59.2	109	1.20	<0.500	3.48	<0.500	NA	37.2	<0.500	<0.500	<0.500	54.2	NA	NA	NA	14.78	6.22	8.56	NA
MW-5	10/11/2006	146	172 h	4.69	<0.500	12.6	<0.500	NA	26.2	<0.500	<0.500	<0.500	22.7	NA	NA	NA	14.78	6.41	8.37	NA
MW-5	1/19/2007	120	<50 h	3.5	<0.50	2.6	<1.0	NA	28	<1.0	<1.0	<1.0	13	NA	NA	NA	14.78	6.45	8.33	NA
MW-5	4/2/2007	180 l	270 h	4.3	<1.0	8.5	0.49 n	NA	23	<2.0	<2.0	<2.0	22	NA	NA	NA	14.78	6.28	8.50	NA
MW-5	7/19/2007	94 l	62 h	0.87	<1.0	1.8	<1.0	NA	12	<2.0	<2.0	<2.0	6.8 n	NA	NA	NA	14.78	6.45	8.33	NA
MW-5	10/16/2007	<50 l	<50 h	0.22 n	<1.0	<1.0	<1.0	NA	11	<2.0	<2.0	<2.0	<10	NA	NA	NA	14.78	6.46	8.32	NA
MW-5	1/23/2008	87 l	<50 h	1.4	<1.0	4.0	<1.0	NA	15	<2.0	<2.0	<2.0	<10	NA	NA	NA	14.78	6.15	8.63	NA
MW-5	4/2/2008	100	<50 h	5.1	<1.0	1.2	<1.0	NA	12	<2.0	<2.0	<2.0	<10	NA	NA	NA	14.78	6.29	8.49	NA
MW-5	7/8/2008	<50	<50 h	<0.50	<1.0	<1.0	<1.0	NA	10	<2.0	<2.0	<2.0	<10	NA	NA	NA	14.78	6.53	8.25	NA
MW-5	**10/2/2008**	**220**	**74 h**	**2.2**	**<1.0**	**<1.0**	**<1.0**	**NA**	**16**	**<2.0**	**<2.0**	**<2.0**	**<10**	**NA**	**NA**	**NA**	**14.78**	**6.60**	**8.18**	**NA**
MW-6	9/25/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.91	5.50	7.41	NA
MW-6	10/15/2002	<500	72	<5.0	<5.0	<5.0	<5.0	NA	2,600	NA	NA	NA	NA	NA	NA	NA	12.91	5.45	7.46	NA
MW-6	1/29/2003	<250	350	<2.5	<2.5	<2.5	<2.5	NA	1,600	NA	NA	NA	NA	NA	NA	NA	12.91	5.20	7.71	NA
MW-6	4/30/2003	<2,500	220	<25	<25	<25	<50	NA	5,900	NA	NA	NA	NA	NA	NA	NA	12.91	5.11	7.80	NA
MW-6	7/22/2003	<500	<50	<5.0	<5.0	<5.0	<10	NA	1,300	NA	NA	NA	NA	NA	NA	NA	12.91	5.46	7.45	NA
MW-6	10/9/2003	<1,000	<50	<10	<10	<10	<20	NA	3,000	NA	NA	NA	NA	NA	NA	NA	12.91	5.51	7.40	NA
MW-6	1/5/2004	<2,500	78 c	<25	<25	<25	<50	NA	3,600	NA	NA	NA	NA	NA	NA	NA	12.91	5.11	7.80	NA
MW-6	4/12/2004	<2,500	<50	<25	<25	<25	<50	NA	4,300	NA	NA	NA	NA	NA	NA	NA	12.91	5.30	7.61	NA
MW-6	7/2/2004	<2,500	<50	<25	<25	<25	<50	NA	2,900	<100	<100	<100	<250	NA	NA	NA	12.91	5.36	7.55	NA
MW-6	10/8/2004	<2,500	<50	<25	<25	<25	<50	NA	3,100	NA	NA	NA	NA	NA	NA	NA	12.91	5.43	7.48	NA
MW-6	1/10/2005	<1,000	<50	<10	<10	<10	<20	NA	2,600	NA	NA	NA	NA	NA	NA	NA	12.91	5.00	7.91	NA
MW-6	4/15/2005	210	100 d	11	<0.50	19	3.4	NA	180	NA	NA	NA	NA	NA	NA	NA	12.91	5.29	7.62	NA
MW-6	7/15/2005	<1,000	<50	<10	<10	<10	<20	NA	1,200	<20	<40	<40	<100	NA	NA	NA	12.91	5.47	7.44	NA
MW-6	10/20/2005	<1,000	<50	<10	<10	<10	<20	NA	1,800	NA	NA	NA	NA	NA	NA	NA	12.91	5.65	7.26	NA
MW-6	1/24/2006	1,690	<111	<0.500	<0.500	<0.500	<0.500	NA	1,270	NA	NA	NA	NA	NA	NA	NA	12.91	5.27	7.64	NA
MW-6	4/14/2006	1,200	<50.0 h	<0.500	<0.500	<0.500	<0.500	NA	1,300	NA	NA	NA	NA	NA	NA	NA	12.91	4.93	7.98	NA
MW-6	7/25/2006	<50.0	<94.3	<0.500	<0.500	<0.500	<0.500	NA	916	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	12.91	5.38	7.53	NA
MW-6	10/11/2006	785	54.8 h	<0.500	<0.500	<0.500	<0.500	NA	673	<0.500	<0.500	<0.500	<10.0	NA	NA	NA	12.91	5.52	7.39	NA
MW-6	1/19/2007	600 k	<50 h	<5.0	<5.0	<5.0	<10	NA	920	<10	<10	<10	<100	NA	NA	NA	12.91	5.43	7.48	NA
MW-6	4/2/2007	240 l,m	110 h	<0.50	<1.0	<1.0	<1.0	NA	1,200	<2.0	<2.0	<2.0	68	NA	NA	NA	12.91	5.34	7.57	NA
MW-6	7/19/2007	570 l,m	<50 h	<0.50	<1.0	<1.0	<1.0	NA	900	<2.0	<2.0	<2.0	93	NA	NA	NA	12.91	5.40	7.51	NA

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Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-6	10/16/2007	340 l,m	<50 h	1.3 n	<5.0	<5.0	<5.0	NA	990	<10	<10	<10	<50	NA	NA	NA	12.91	5.38	7.53	NA
MW-6	1/23/2008	<50 l	<50 h	<5.0	<10	<10	<10	NA	1,300	<20	<20	<20	<100	NA	NA	NA	12.91	5.10	7.81	NA
MW-6	4/2/2008	1,000	<50 h	<5.0	<10	<10	<10	NA	820	<20	<20	<20	150	NA	NA	NA	12.91	5.40	7.51	NA
MW-6	7/8/2008	780	<50 h	<5.0	<10	<10	<10	NA	680	<20	<20	<20	<100	NA	NA	NA	12.91	5.49	7.42	NA
MW-6	**10/2/2008**	**1,200**	**<50 h**	**<5.0**	**<10**	**<10**	**<10**	**NA**	**740**	**<20**	**<20**	**<20**	**<100**	**NA**	**NA**	**NA**	**12.91**	**5.58**	**7.33**	**NA**
T-1	1/7/2002	<20,000	2,600	310	<200	<200	<200	NA	92,000	NA	NA	NA	NA	NA	NA	NA	NA	4.86	NA	NA
T-1	4/12/2002	<5,000	1,000	230	<50	<50	<50	NA	57,000	NA	NA	NA	NA	NA	NA	NA	NA	5.05	NA	NA
T-1	7/10/2002	<20,000	3,700	260	<200	<200	<200	NA	69,000	NA	NA	NA	NA	NA	NA	NA	NA	5.84	NA	NA
T-1	10/15/2002	<5,000	2,100	150	62	<50	75	NA	29,000	NA	NA	NA	NA	NA	NA	NA	NA	5.77	NA	NA
T-1	1/2/2003	NA	NA	1.5	<0.50	<0.50	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.10	NA	NA
T-1	1/29/2003	1,300	1,200	67	6.5	<2.0	5.2	NA	820	NA	NA	NA	NA	NA	NA	NA	NA	5.49	NA	NA
T-1	4/30/2003	360	1,000	45	0.60	<0.50	2.3	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	4.91	NA	NA
T-1	7/22/2003	1,200	940 c	170	4.8	<2.5	18	NA	150	NA	NA	NA	NA	NA	NA	NA	NA	5.70	NA	NA
T-1	10/9/2003	700	880 c	32	2.0	<1.0	9.8	NA	140	NA	NA	NA	NA	NA	NA	NA	NA	5.79	NA	NA
T-1	1/5/2004	450	790 c	24	2.1	<1.0	3.2	NA	29	NA	NA	NA	NA	NA	NA	NA	NA	5.16	NA	NA
T-1	4/12/2004	210	530 c	6.4	<1.0	<1.0	<2.0	NA	9.0	NA	NA	NA	NA	NA	NA	NA	NA	5.40	NA	NA
T-1	7/2/2004	1,400	2,800 c	160	300	6.7	180	NA	28	NA	NA	NA	NA	NA	NA	NA	NA	5.62	NA	NA
T-1	10/8/2004	1,800	1,100 c	390	68	5.6	330	NA	59	NA	NA	NA	NA	NA	NA	NA	NA	5.67	NA	NA
T-1	1/10/2005	3,000	1,300 c	480	150	30	270	NA	52	NA	NA	NA	NA	NA	NA	NA	NA	4.92	NA	NA
T-1	4/15/2005	1,100	1,100 c	93	2.9	3.3	8.3	NA	26	NA	NA	NA	NA	NA	NA	NA	NA	5.22	NA	NA
T-1	7/15/2005	490	430 c	1.7	1.3	<0.50	2.4	NA	9.7	NA	NA	NA	NA	NA	NA	NA	NA	5.55	NA	NA
T-1	10/20/2005	300 e	770 c	<0.50	<0.50	<0.50	1.3	NA	11	NA	NA	NA	NA	NA	NA	NA	13.85	6.16	7.69	NA
T-1	1/24/2006	<50.0	2,610 f	<0.500	<0.500	<0.500	<0.500	NA	18.5	NA	NA	NA	NA	NA	NA	NA	13.85	5.45	8.40	NA
T-1	4/14/2006	<50.0	2,550 h	<0.500	<0.500	<0.500	<0.500	NA	5.29	NA	NA	NA	NA	NA	NA	NA	13.85	5.11	8.74	NA
T-1	7/25/2006	<50.0	544	<0.500	<0.500	<0.500	<0.500	NA	9.73	NA	NA	NA	248	NA	NA	NA	13.85	5.53	8.32	NA
T-1	10/11/2006	<50.0	1,540 h	<0.500	<0.500	<0.500	<0.500	NA	4.28	1.22	1.93	2.30	91.6	NA	NA	NA	13.85	5.65	8.20	NA
T-1	1/19/2007	<50	83 h	<0.50	<0.50	<0.50	<1.0	NA	0.58 j	<1.0	<1.0	<1.0	6.0 j	NA	NA	NA	13.85	5.77	8.08	NA
T-1	4/2/2007	79 l	680 h	<0.50	<1.0	<1.0	<1.0	NA	2.2	<2.0	<2.0	<2.0	51	NA	NA	NA	13.85	5.51	8.34	NA
T-1	7/19/2007	<50 l	330 h	<0.50	<1.0	<1.0	<1.0	NA	2.9	<2.0	<2.0	<2.0	34	NA	NA	NA	13.85	5.67	8.18	NA
T-1	10/16/2007	65 l	230 h	<0.50	<1.0	<1.0	<1.0	NA	2.5	<2.0	<2.0	<2.0	21	NA	NA	NA	13.85	6.34	7.51	NA
T-1	1/23/2008	<50 l	140 h,m	<0.50	<1.0	<1.0	<1.0	NA	2.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	13.85	5.31	8.54	NA
T-1	4/2/2008	<50	170 h,m	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	NA	NA	NA	13.85	5.48	8.37	NA
T-1	7/8/2008	<50	310 h	<0.50	<1.0	<1.0	<1.0	NA	2.9	<2.0	<2.0	<2.0	<10	NA	NA	NA	13.85	6.03	7.82	NA

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
T-1	10/2/2008	1,000	380 h	36	76	6.8	222	NA	3.5	<2.0	<2.0	<2.0	28	NA	NA	NA	13.85	5.90	7.95	NA

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to July 9, 2001, analyzed by EPA Method 8015.
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to July 9, 2001, analyzed by EPA Method 8020.
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, analyzed by EPA Method 8260B
1,2-DCA = 1,2-dichloroethane, analyzed by EPA Method 8260B
EDB = 1,2-dibromomethane or ethlyene dibromide, analyzed by EPA Method 8260B
TOC = Top of Casing Elevation
GW = Groundwater
DO = Dissolved Oxygen
ug/L = Parts per billion
ppm = Parts per million
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
NA = Not applicable
n/n = Pre-purge/Post-purge

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)	DO Reading (ppm)

Notes:

a = Sample was analyzed outside of the EPA recommended holding time.

b = Result was generated out of hold time.

c = Hydrocarbon does not match pattern of laboratory's standard.

d = Hydrocarbon reported is in the early Diesel range and does not match the laboratory's Diesel standard.

e = Quantity of unknown hydrocarbon(s) in sample based on gasoline.

f = TPH pattern is characteristic of diesel fuel.

g = TPH pattern is characteristic of gasoline.

h = TEPH with Silica Gel clean-up

i = Analyte reported with failing QC due to insufficient sample and hold time requirements.

j = Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.

k = Hydrocarbon result partly due to individual peak(s) in quantitation range.

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

m = 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.

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

Ethanol analyzed by EPA Method 8260B.

Top of casing for well MW-4 provided by Cambria Environmental Technology, Inc.

Wells MW-1 through MW-5 surveyed April 12, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Site surveyed September 26, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Well T-1 surveyed on September 27, 2005. Survey data provided by Cambria Environmental.

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-1
JOB/SITE NAME	oak105	**DRILLING STARTED**	14-May-99
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	14-May-99
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	15.49' ft above msl
DRILLING METHOD	Hollow-stem auger		
BORING DIAMETER	10"	**SCREENED INTERVALS**	4 to 24 fbg
LOGGED BY	T. Buggle	**DEPTH TO WATER (First Encountered)**	15.8 fbgNA
REVIEWED BY	Darryk Ataide	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5' bgs.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							SAND (SAND); brown; soft; 5% silt, 90% sand, 5% gravel; low plasticity; high estimated permeability.		Portland Type I/II
	2								Bentonite Seal
	3								Monterey Sand #3
0	5	MW-1@ 5.5		5			2 4' - 5% silt, 95% sand.		
							2 4' - 5% clay,.5% silt, 90% sand.		
	13								
	15								
3.5	20	MW-1 @10.5		10					
					SP				
	N/A								
	N/A						@ 14' - color brown, orange, rust		4"-diam., 0.010" Slotted Schedule 40 PVC
	N/A	MW-1 @15.5		15					
	7								
	10								
0	20	MW-1 @20.5		20					
	3/18								
0		MW-1 @25.5		25				25.5	Bottom of Boring @ 25.5 fbg

WELL LOG (PID) \\10CAMEMVDC\SONOMA.SHELL\OAKLAND 105 FIFTH\GINT\OAK105.GPJ DEFAULT.GDT 11/2/05

ATTACHMENT 6

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-2
JOB/SITE NAME	oak105	**DRILLING STARTED**	14-May-99
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	14-May-99
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	13.92' ft above msl
DRILLING METHOD	Hollow-stem auger		
BORING DIAMETER	10"	**SCREENED INTERVALS**	4 to 24 fbg
LOGGED BY	T. Buggle	**DEPTH TO WATER (First Encountered)**	14.0 fbgNA
REVIEWED BY	Darryk Atalde	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5' bgs.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHLAT	0.8	Portland Type I/II
							Sandy SILT (ML); black; soft; 60% silt, 40% sand; low plasticity; high estimated permeability.		Bentonite Seal
402	4 4 6	MW-2 @5.5		5	ML				Monterey Sand #3
								7.6	
							Silty SAND (SP); grey-black; soft; moist, 30% silt, 70% sand; high plasticity; high estimated permeability.		
278	10 15 28	MW-2 @10.5		10	SP				
								12.5	
							SAND (SP); brown, rust, grey; soft; wet; 5% silt, 95% sand; low plasticity; high estimated permeability. ▽		4"-diam., 0.010" Slotted Schedule 40 PVC
134	17 30 50	MW-2 @15.5		15	SP				
9.4	8 8 10	MW-2 @20.5		20					
								22.5	
							Silty SAND (ML); brown, rust; soft; wet; 5% clay, 15% silt, 80% sand; low plasticity; high estimated permeability.		
1.2	2 2 3	MW-2 @25.5		25	GM			25.5	Bottom of Boring @ 25.5 fbg

WELL LOG (PID) W:\OAKMEN\DCS\SONOMA SHELL\OAKLAND 105 FIFTH\GINT\OAK105.GPJ DEFAULT.GDT 11/21/08

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-3
JOB/SITE NAME	oak105	**DRILLING STARTED**	14-May-99
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	14-May-99
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	14.46' ft above msl
DRILLING METHOD	Hollow-stem auger (Limited Access Rig)		
BORING DIAMETER	10"	**SCREENED INTERVALS**	5 to 25 fbg
LOGGED BY	T. Buggle	**DEPTH TO WATER (First Encountered)**	12.5 fbgNA
REVIEWED BY	Darryk Ataide	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5' bgs.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
	N/A						**ASPHALT**	0.8	Portland Type I/II
							Silty SAND (SM); black; soft; moist; 30% silt, 70% sand; low plasticity; high estimated permeability.		
					SP				Bentonite Seal
	N/A			5					Monterey Sand #3
	N/A								
28.7	N/A	MW-3 @6.5							
								7.5	
							SAND (SP); brown rust; soft; moist; 5% silt, 95% sand; low plasticity; high estimated permeability.		
	N/A			10					
	N/A								
71.1	N/A	MW-3 @11.5							
	N/A			15					4"-diam., 0.010" Slotted Schedule 40 PVC
	N/A								
	N/A	MW-3 @15.5			SP		@ 15' - brown, grey, rust; soft-medium; wet.		
							@ 17.5 - brown, grey, rust; medium; wet; 10% clay,10% silt, 80% sand; medium-high estimated permeability.		
	N/A			20					
	N/A								
57.1	N/A	MW-3 @21.5							
	N/A								
	N/A								
21.1	N/A	MW-3 @25.0		25				25.0	Bottom of Boring @ 25 fbg

WELL LOG (PID) \\110CAMEN\DOCS\NOMA\SHELL\OAKLAND 105 FIFTH\SITE\OAK105.GPJ DEFAULT.GDT 11/21/06

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-4
JOB/SITE NAME	oak105	**DRILLING STARTED**	12-Feb-01
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	12-Feb-01
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	12.31' ft above msl
DRILLING METHOD	Hollow-stem auger		
BORING DIAMETER	8"	**SCREENED INTERVALS**	10 to 25 fbg
LOGGED BY	S. Couch	**DEPTH TO WATER (First Encountered)**	10.0 fbg (12-Feb-01)
REVIEWED BY	S. Bork, RG# 5626	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5'.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.5	Portland Type I/II
							FILL; brown; damp; 10% silt, 90% fine to medium grained sand.		
		MW-4-5.0		5	SP		**SAND** (SP); black; damp; 10% silt, 90% fine grained sand; no plasticity.	5.0	Bentonite Seal
		MW-4-10.0		10	SM		▽ **Silty SAND** (SM); dark reddish brown; moist; 25% silt, 75% fine grained sand; oxidation; low plasticity.	10.0	Monterey Sand #2/12
		MW-4-15.0		15	SC		**Clayey SAND** (SC); greyish brown; wet; 20% clay, 80% fine grained sand; low to medium plasticity.	15.0	2"-diam., 0.020" Slotted Schedule 40 PVC
		MW-4-20.0		20	SM		**Silty SAND** (SM); grey; saturated; 5% clay, 15% silt, 80% fine grained sand; low plasticity.	20.0	
				25				25.0	Bottom of Boring @ 25 fbg

WELL LOG (PID) X:\OCAMEN\DOS\SONOMA.S\HELLO\OAKLAND 105 FIFTH\GINT\OAK105.GPJ DEFAULT.GDT 11/2/05

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	MW-5
JOB/SITE NAME	oak105	**DRILLING STARTED**	08-Mar-02
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	08-Mar-02
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	28-Mar-02
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	15.05 ft above msl
DRILLING METHOD	Hollow-stem auger		
BORING DIAMETER	4"	**SCREENED INTERVALS**	4 to 24 fbg
LOGGED BY	S. Couch	**DEPTH TO WATER (First Encountered)**	10.0 fbg (08-Mar-02)
REVIEWED BY	D. Lundquist, PE	**DEPTH TO WATER (Static)**	5.96 fbg (12-Apr-02)

REMARKS Hand augered to 5 fbg. Located approximately 50' north of the UST complex.

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.5	Portland Type I/II Cement
							SAND (SP); black; soft; damp; 5% silt, 95% fine sand; strong odor; no plasticity.		Bentonite Seal
									Monterey Sand #2/12
		MW-5- 5.0		5	SP		@ 5 fbg- greenish black; damp; 15% silt, 85% fine sand; strong odor; no plasticity.		
		MW-5- 10.0		10			Silty SAND (SM); grayish brown; wet; 20% silt, 80% fine sand; odor; low plasticity.	10.0	
		MW-5- 15.0		15	SM		@ 15 fbg- reddish brown; wet; 5% clay, 20% silt, 75% fine sand; odor; low plasticity.		4"-diam., 0.010" Slotted Schedule 40 PVC
		MW-5- 20.0		20			@ 20 fbg- reddish dark brown.		
		MW-5- 23.5					@ 23.5 fbg- stiff; 20% silt, 80% sand; weathered. sandstone fragments.	24.0	Bottom of Boring @ 24 fbg

WELL LOG (PID) W:\OCAM\ENVDOCS\SONOMA.SHELL\OAKLAND 105 FIFTH\GINT\OAK105.GPJ DEFAULT.GDT 11/21/05

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BORING/WELL LOG

CLIENT NAME Equiva Services LLC
JOB/SITE NAME oak105
LOCATION 105 Fifth Street, Oakland, California
PROJECT NUMBER 244-0472
DRILLER Gregg Drilling
DRILLING METHOD
BORING DIAMETER
LOGGED BY C. Empedocles
REVIEWED BY
REMARKS 5 ft north of northern dispenser.

BORING/WELL NAME SB-1
DRILLING STARTED 23-Jul-98
DRILLING COMPLETED 23-Jul-98
WELL DEVELOPMENT DATE (YIELD) NA
GROUND SURFACE ELEVATION Not Surveyed
TOP OF CASING ELEVATION NA
SCREENED INTERVAL NA
DEPTH TO WATER (First Encountered) 6.0 ft
DEPTH TO WATER (Static) NA

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	0.5	
					SM		**Silty SAND** (SM); brown; medium dense; moist; 5% clay, 15% silt, 80% clay; high estimated permeability.	5.0	Water encountered @ 6 ft.
				5					
					SM		dense, 5% clay, 20% silt, 75% sand.	10.0	
				10	SM			11.0	Bottom of Boring @ 11 ft

WELL LOG (PID) \\10CAMEN\DOCS\ONOMA.SHE\1OAKLAND 105 FIFTH\GINT\OAK105.GPJ DEFAULT.GDT 12/5/08

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-2
JOB/SITE NAME	oak105	**DRILLING STARTED**	23-Jul-98
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	23-Jul-98
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD		**TOP OF CASING ELEVATION**	NA
BORING DIAMETER		**SCREENED INTERVAL**	NA
LOGGED BY	C. Empedocles	**DEPTH TO WATER (First Encountered)**	9.0 ft ▽
REVIEWED BY		**DEPTH TO WATER (Static)**	NA ▼
REMARKS	5 ft north of western dispenser.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	0.5	
					SM		**Silty SAND** (SM); dark brown; medium dense; moist; 5% clay, 25% silt, 70% medium grained sand; high estimated permeability.	5.0	
				5					
					SM			▽	Water encountered @ 9 ft.
				10			wet.	10.0	
					SM			11.0	Bottom of Boring @ 11 ft

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-3
JOB/SITE NAME	oak105	**DRILLING STARTED**	23-Jul-98
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	23-Jul-98
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD		**TOP OF CASING ELEVATION**	NA
BORING DIAMETER		**SCREENED INTERVAL**	NA
LOGGED BY	C. Empedocles	**DEPTH TO WATER (First Encountered)**	9.0 ft
REVIEWED BY		**DEPTH TO WATER (Static)**	NA
REMARKS	5 ft south of northeast dispenser.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	0.5	
					SM		**Silty SAND** (SM); dark brown with green; medium dense; moist; 5% clay, 20% silt, 75% sand; high estimated permeability.	5.0	
				5					
					SM		light brown with green; wet.	10.0	Water encountered @ 9 ft.
				10					
					SM			12.0	Bottom of Boring @ 12 ft

WELL LOG (PID) W:\OAKMEN\WDOCS\OAKOMA.SHELL\OAKLAND 105 FIFTH\GINT\OAK105.GPJ DEFAULT.GDT 12/8/05

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-4
JOB/SITE NAME	oak105	**DRILLING STARTED**	23-Jul-98
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	23-Jul-98
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD		**TOP OF CASING ELEVATION**	NA
BORING DIAMETER		**SCREENED INTERVAL**	NA
LOGGED BY	C. Empedocles	**DEPTH TO WATER (First Encountered)**	9.0 ft
REVIEWED BY		**DEPTH TO WATER (Static)**	NA
REMARKS	15 ft northeast of southern dispenser.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	0.5	
					SM		**Silty SAND** (SM); dark brown; moist; 5% clay, 20% silt, 70% sand, 5% gravel; high estimated permeability.	5.0	
				5					
					SM		brown; wet.	10.0	Water encountered @ 9 ft.
				10					
					SM			12.0	Bottom of Boring @ 12 ft

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-5
JOB/SITE NAME	oak105	**DRILLING STARTED**	23-Jul-98
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	23-Jul-98
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD		**TOP OF CASING ELEVATION**	NA
BORING DIAMETER		**SCREENED INTERVAL**	NA
LOGGED BY	C. Empedocles	**DEPTH TO WATER (First Encountered)**	8.0 ft ▽
REVIEWED BY		**DEPTH TO WATER (Static)**	NA ▼
REMARKS	5 ft south of southern dispenser.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	0.5	
					SM		**Silty SAND** (SM); dark brown; medium dense; moist; 5% clay, 20% silt, 70% sand, 5% gravel; high estimated permeability.	5.0	
				5					
					SM		brown; wet; 5% clay, 15% silt, 80% medium grained sand.	10.0	Water encountered @ 8 ft.
				10					
					SM			12.0	Bottom of Boring @ 12 ft

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BORING/WELL LOG

CLIENT NAME	Equilva Services LLC	**BORING/WELL NAME**	SB-6
JOB/SITE NAME	oak105	**DRILLING STARTED**	12-Feb-01
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	12-Feb-01
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	S. Couch	**DEPTH TO WATER (First Encountered)**	10.0 ft (12-Feb-01)
REVIEWED BY	S. Bork, RG# 5826	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5',		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	0.3	
							FILL; dark brown; damp; 20% silt, 80% fine to medium grained sand; low plasticity.		
		SB-6-5.0		5	SP		**SAND** (SP); reddish brown; damp; 10% silt, 90% fine to medium grained sand; no plasticity.	6.0	
		SB-6-10.0		10	SM		**Silty SAND** (SM); brown; moist; 25% silt, 75% fine grained sand; low plasticity.	10.0	Portland Type I/II
		SB-6-15.0		15	SC		**Clayey SAND** (SC); brown; wet; 20% clay, 80% fine grained sand; low to medium plasticity.	15.0	
		SB-6-20.0		20			@ 20 fbg - greyish brown; saturated; 25% clay, 10% silt, 65% fine grained sand.		
				25				25.0	Bottom of Boring @ 25 ft

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BORING/WELL LOG

CLIENT NAME	Equilva Services LLC	**BORING/WELL NAME**	SB-7
JOB/SITE NAME	oak105	**DRILLING STARTED**	12-Feb-01
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	12-Feb-01
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	S. Couch	**DEPTH TO WATER (First Encountered)**	10.0 ft (12-Feb-01)
REVIEWED BY	S. Bork, RG# 5626	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5'.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0			**ASPHALT**	0.3	
							FILL: brown; damp; 20% silt, 80% fine to medium grained sand; low plasticity.		
		SB-7-5.0		5	SP		**SAND** (SP); reddish brown; damp; 10% silt, 90% fine to medium grained sand; no plasticity.	5.0	
		SB-7-10.0		10	SM		**Silty SAND** (SM); brown; moist; 25% silt, 75% fine grained sand; low plasticity.	10.0	Portland Type I/II
							@ 14 fbg - yellowish grey brown.		
		SB-7-15.0		15	SC		**Clayey SAND** (SC); grey brown; moist; 20% clay, 80% fine grained sand; low to medium plasticity.	15.0	
		SB-7-20.0		20			@ 20 fbg - saturated; 20% clay, 15% silt, 65% fine grained sand.		
				25				25.0	Bottom of Boring @ 25 ft

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-8
JOB/SITE NAME	oak105	**DRILLING STARTED**	07-Mar-02
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	07-Mar-02
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	S. Couch	**DEPTH TO WATER (First Encountered)**	9.0 ft (07-Mar-02)
REVIEWED BY	S. Bork, RG# 5626	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5'.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	1.0	
					ML		Gravelly SILT(ML); grayish brown; damp; 70% silt, 10% fine sand, 20% fine subangular gravel; very strong odor; low plasticity.	3.0	
					SM		Silty SAND(SM); greenish brown; damp; 30% silt, 70% fine to medium sand; staining; strong odor; low plasticity.	5.0	
				5	SP		SAND (SP); grayish brown; damp to moist; 10% silt, 90% fine sand; odor; no plasticity.		Portland Type I/II Cement
		SB-8-8.0					▽	9.0	
				10	SM		Silty SAND(SM); grayish brown; wet; 20% silt, 80% fine sand; odor; low plasticity.		
							@ 13 fbg- gray; stiff.	14.0	Bottom of Boring @ 14 ft

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-9
JOB/SITE NAME	oak105	**DRILLING STARTED**	07-Mar-02
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	07-Mar-02
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	S. Couch	**DEPTH TO WATER (First Encountered)**	10.0 ft (07-Mar-02)
REVIEWED BY	S. Bork, RG# 5626	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5'.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	1.0	
					ML		**Gravelly SILT**(ML); grayish brown; damp; 65% silt, 15% fine sand, 20% fine subangular gravel; strong odor; low plasticity.	3.0	
					SM		**Silty SAND**(SM); light grayish brown; damp; 20% silt, 80% fine to medium sand; odor; low plasticity.	5.0	
		SB-9-7.5'		5	SP		**SAND** (SP); grayish brown; damp to moist; 5% silt, 95% fine sand; no plasticity. @ 7 fbg- 10% silt, 90% fine sand.		Portland Type I/II Cement
				10	SM		▽ **Silty SAND**(SM); grayish brown; wet; 25% silt, 75% fine sand; low plasticity. @ 12 fbg- brownish gray; 20% silt, 80% fine sand.	10.0 14.0	
				15	SP		**SAND** (SP); dark gray; wet; 90% sand, 10% silt; no plasticity.	16.0	Bottom of Boring @ 16 ft

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-10
JOB/SITE NAME	oak105	**DRILLING STARTED**	07-Mar-02
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	07-Mar-02
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	S. Couch	**DEPTH TO WATER (First Encountered)**	10.0 ft (07-Mar-02)
REVIEWED BY	S. Bork, RG# 5626	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5'.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	1.0	
					ML		Gravelly SILT (ML); grayish brown; damp; 65% silt, 15% fine sand, 20% fine subangular gravel; low plasticity.	3.0	
					SM		Silty SAND (SM); light grayish brown; damp; 20% silt, 80% fine to medium sand; low plasticity.	5.0	
				5			SAND (SP); grayish brown; damp; 5% silt, 95% fine sand; no plasticity.		
		SB-10-8.0			SP		@ 8 fbg- 10% silt, 90% fine sand.		Portland Type I/II Cement
				10			▽	10.0	
					SM		Silty SAND (SM); grayish brown; moist to wet; 20% silt, 80% fine sand; low plasticity.		
							@ 12 fbg- gray; 15% silt, 85% fine sand.	14.0	
				15	SP		SAND (SP); dark gray; wet; 90% sand, 10% silt; no plasticity.		
							@ 17 fbg- 100% sand.	18.0	Bottom of Boring @ 18 ft

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-11
JOB/SITE NAME	oak105	**DRILLING STARTED**	07-Mar-02
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	07-Mar-02
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	S. Couch	**DEPTH TO WATER (First Encountered)**	10.0 ft (07-Mar-02)
REVIEWED BY	S. Bork, RG# 5626	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5'.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	1.0	
					ML		Gravelly SILT(ML); grayish brown; damp; 65% silt, 15% fine sand, 20% fine subangular gravel; low plasticity.	3.0	
					SM		Silty SAND(SM); grayish brown; damp; 25% silt, 75% fine to medium sand; low plasticity.	5.0	
		SB-11-7.5		5	SP		SAND (SP); grayish brown; damp; 5% silt, 95% fine sand; no plasticity. @ 7 fbg- 10% silt, 90% fine sand.		
				10	SM		▽ Silty SAND(SM); grayish brown; moist to wet; 20% silt, 80% fine sand; low plasticity. @ 12 fbg- gray; 15% silt, 85% fine sand.	10.0	Portland Type I/II Cement
				15	SP		SAND (SP); dark gray; wet; 95% sand, 5% silt; no plasticity. @ 16.5 fbg- 100% sand.	14.0	
				20				20.0	Bottom of Boring @ 20 ft

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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	**BORING/WELL NAME**	SB-12
JOB/SITE NAME	oak105	**DRILLING STARTED**	07-Mar-02
LOCATION	105 Fifth Street, Oakland, California	**DRILLING COMPLETED**	07-Mar-02
PROJECT NUMBER	244-0472	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2"	**SCREENED INTERVAL**	NA
LOGGED BY	S. Couch	**DEPTH TO WATER (First Encountered)**	10.0 ft (07-Mar-02)
REVIEWED BY	S. Bork, RG# 5628	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5'.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	1.0	
					ML		Gravelly SILT (ML); grayish brown; damp; 70% silt, 10% fine sand, 20% fine subangular gravel; low plasticity.	3.0	
					SM		Silty SAND (SM); grayish brown; damp; 25% silt, 75% fine to medium sand; low plasticity.	5.0	
		SB-12-8.0		5	SP		SAND (SP); grayish brown; damp; 5% silt, 95% fine sand; no plasticity.		
				10	SM		Silty SAND (SM); grayish brown; moist to wet; 20% silt, 80% fine sand; low plasticity. ▽	10.0	Portland Type I/II Cement
							@ 13 fbg- gray; stiff.	14.0	
				15	SP		SAND (SP); dark gray; wet; 95% sand, 5% silt; no plasticity.		
				20			@ 17 fbg- 100% sand.	22.0	Bottom of Boring @ 22 ft

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