



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

January 9, 2014

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

Horizon Energy Ltd
c/o Victoria Du
540 Hegenberger Road
Oakland, CA 94621-1320

Subject: Case Closure for Fuel Leak Case No. RO0000223 and GeoTracker Global ID T0600102123, Shell#13-5694, 540 Hegenberger Road, Oakland, CA 94621

Dear Responsible Parties:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.swrcb.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Total Petroleum Hydrocarbons as gasoline remains in soil at concentrations up to 1,400 ppm at a depth of 5 feet below ground surface (bgs).
- Benzene remains in soil at concentrations up to 4.3 ppm at a depth of 5 feet bgs.
- 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.

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

Sincerely,

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

Donna Drogos, P.E.
Division Chief

Enclosures:

1. Remedial Action Completion Certification
2. Case Closure Summary

cc:

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

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

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

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

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

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

ALEX BRISCOE, Director



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

REMEDIAL ACTION COMPLETION CERTIFICATION

January 9, 2014

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

Horizon Energy Ltd
c/o Victoria Du
540 Hegenberger Road
Oakland, CA 94621-1320

Subject: Case Closure for Fuel Leak Case No. RO0000223 and GeoTracker Global ID T0600102123, Shell#13-5694, 540 Hegenberger Road, Oakland, CA 94621

Dear Responsible Parties:

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

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

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

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

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

Sincerely,

Ariu Levi
Director

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

I. AGENCY INFORMATION

Date: August 7, 2013

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

II. CASE INFORMATION

Site Facility Name: Shell #13-5694		
Site Facility Address: 540 Hegenberger Road, Oakland, California 94621		
RB Case No.: 01-2308	Local Case No.: STID 3646	LOP Case No.: RO0000223
URF Filing Date: 08/21/1996	Geotracker ID: T0600102123	APN: 42-4323-1-7
Responsible Parties	Addresses	Phone Numbers
Victoria Du, Horizon Energy Ltd	540 Hegenberger Road Oakland, CA 94621-1320	No phone number
Perry Pineda Shell Oil Products US	20945 S. Wilmington Avenue, Carson, CA 90810	425-413-1164

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
---	---	---	---	---
---	---	---	---	---
---	---	---	---	---
Piping			Removed	August 1996

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. A piping leak was repaired in 1996 and dispenser modifications were completed in 1998 and 2004.	
Site characterization complete? Yes	Date Approved By Oversight Agency: ----

Monitoring wells installed? Yes	Number: 5	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 4.18 feet bgs	Lowest Depth: 18.35 feet bgs	Flow Direction: North to East
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: No water supply wells were identified within 2,000 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: A storm drain canal leading to Elmhurst Creek is approximately 175 feet northwest of the site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None identified.	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	---	---	---
Piping	Not Reported	Not Reported	April 8, 1996
Free Product	----	----	----
Soil	50 tons	Disposal at Forward Landfill in Manteca, CA	April 30, 2004
Groundwater	83,060 gallons	Groundwater was transported to the Shell refinery in Martinez for treatment and disposal	July 1999 to February 2003
	361,511 gallons	Groundwater was treated and discharged to the sanitary sewer under permit to East Bay Municipal Utility District.	April 2003 to November 2005

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

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	3,400	1,400	200,000 ⁽¹⁾	250 ⁽¹⁾
TPH (Diesel)	1,500	1,200	5,780	5,780
Oil and Grease	----	----	----	----
Benzene	39	4.3	11,000 ⁽¹⁾	24 ⁽¹⁾
Toluene	280	3.4	36,000 ⁽¹⁾	<2 ⁽¹⁾
Ethylbenzene	84	14	3,200 ⁽¹⁾	<2 ⁽¹⁾
Xylenes	450	3.3	19,000 ⁽¹⁾	<2 ⁽¹⁾
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	----	----	----	----
MTBE	720 ⁽²⁾	43 ⁽³⁾	1,300,000 ⁽⁴⁾	37 ⁽⁵⁾
Other (8240/8270)	----	----	----	----

Notes:

- (1) Maximum concentration before cleanup is a grab groundwater sample from boring SB-5 collected on March 6, 1998; maximum concentration after cleanup is from the groundwater monitoring event on September 23, 2009.
- (2) MTBE = 720 ppm; TBA; DIPE, ETBE, TAME, EDB, and EDC not analyzed in soil.
- (3) MTBE = 43 ppm; TBA; DIPE, ETBE, TAME, EDB, and EDC not analyzed in soil.
- (4) MTBE = 1,300,000 ppb (Sample collected from SB-5 on March 6, 1998); TBA = 52,000 ppb, DIPE, TAME, ETBE <2.0 ppb; EDB and EDC not analyzed.
- (5) From the groundwater monitoring event on September 23, 2009: MTBE = 37 ppb; TBA = 7,700 ppb; DIPE, TAME, and ETBE <2.0 ppb; EDB and EDC not analyzed.

Site History and Description of Corrective Actions:

The site is an active gasoline service station located at the intersection of Hegenberger Road and Edes Avenue in Oakland, CA. Surrounding land use is commercial.

A potential gasoline release was observed during dispenser repairs in August 1996. One soil sample (D-1) collected beneath dispenser piping beneath the northwest corner of the northwest pump island detected 3,400 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline (TPHg), 17 ppm benzene, and 720 ppm MTBE. On September 6, 1996 employees indicated that petroleum odors had been noticeable inside the storeroom of the building and appeared to originate from the sink or sewer drain. An air sample collected from a floor drain detected 0.029 ppm toluene.

Petroleum odors were again reported in the storeroom on September 19, 1996. Air samples from the floor drain detected up to 5,100 ppm volatile organic compounds (VOCs). An air sample collected from a floor drain detected 170 ppm TPHg and 1.9 ppm toluene.

Secondary containment was added beneath the dispensers and turbine pumps in January and February 1998. Soil samples collected beneath the dispensers detected up to 340 ppm TPHg and 3.7 ppm benzene.

On March 6, 1998, five soil borings (SB-1 through SB-5) were advanced on-site. Soil samples from the borings detected up to 3,400 ppm TPHg, 39 ppm benzene, and 170 ppm MTBE at depths of 5 to 8 feet below grade. A grab groundwater sample collected from boring B-5, located adjacent to the western dispenser island detected 200,000 parts per billion (ppb) TPHg, 11,000 ppb benzene, and 1,300,000 ppb MTBE.

Three groundwater monitoring wells (MW-1 through MW-3) were installed and one soil boring (SB-D) was advanced on July 14 and 15, 1998. Soil samples from boring SB-D detected up to 460 ppm TPHg, 4.7 ppm benzene, and 240 ppm MTBE.

Weekly batch groundwater extraction (GWE) events were initiated in July 1999. Between June of 2000 and September of 2001, extraction and treatment of soil vapors was added in addition to GWE. Interim remediation was stopped in February 2003. Interim GWE removed 83,063 gallons of groundwater that detected an estimated 1.68 pounds of TPHg and 13.0 pounds of MTBE. Soil vapor extraction removed an estimated 19.3 pounds of TPHg and 0.72 pounds of MTBE.

In August and September 2000, three soil borings (SB-E, SB-F, and SB-G) were advanced and one groundwater monitoring well (MW-4) was installed. Soil samples from the borings detected up to 468 ppm TPHg, 108 ppm TPH as diesel, and 1.86 ppm MTBE. Grab groundwater samples detected up to 51,100 ppb TPHg, 5,780 ppb TPHd, 2,080 ppb benzene, and 76,400 ppb MTBE.

In June 2002, one monitoring well (MW-5) was installed. TPHg and benzene were not detected at concentrations above the reporting limit but MTBE was detected at concentrations up to 13 ppm in soil samples from the well boring.

A fixed GWE system was installed in March 2003. The GWE system removed up 362,511 gallons of groundwater between April 2003 and November 2005 that contained an estimated 4.75 pounds of TPHg and 18.4 pounds of MTBE.

In June and July 2004, the fuel dispensers, piping, under-dispenser containment, and fill-port sumps were upgraded. Soil samples collected beneath the dispensers and piping detected up to 1,400 ppm TPHg, 1,200 ppm TPHd, 4.3 ppm benzene, and 43 ppm MTBE.

Site History and Description of Corrective Actions (continued):

In March 2011, three sub-slab vapor probes (SVP-1 through SVP-3) were installed in the station building to evaluate the previous observations of petroleum hydrocarbon odors. The probes were sampled on March 9, 2011 and March 31, 2011. TPHg was detected in each of the probes at concentrations ranging from 14,000 to 17,000,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The highest concentrations of TPHg were detected in the soil vapor probe (SVP-3) inside the kiosk office. Benzene was not detected at concentrations above the reporting limit.

Two additional soil vapor probes were installed in January 2012 and were sampled on February 2, 2012. Sampling results for SVP-3 were generally similar to the previous two sampling events with TPHg detected at a concentration of 13,000,000 $\mu\text{g}/\text{m}^3$. TPHg and benzene were not detected at concentrations above reporting limits in the remaining four sub-slab vapor probe samples. In order to mitigate the potential for vapor intrusion to the kiosk office, cracks in the office floor were sealed with grout and a sealant was applied to the floor. Air samples were collected from near the counter of the kiosk, the kiosk office, and outside the kiosk before and after sealant application. Benzene concentrations were highest in the initial pre-floor sealing air sample collected from the kiosk office (4.1 $\mu\text{g}/\text{m}^3$). The three air samples collected after the sealant application detected similar benzene concentrations (1.2 to 1.4 $\mu\text{g}/\text{m}^3$).

Groundwater monitoring was conducted from August 1998 until September 2009. During the groundwater monitoring event on September 23, 2009, the maximum concentrations of TPHg, benzene, and MTBE in groundwater were 250, 24 and 170 ppb, respectively. TBA was detected at concentrations up to 7,700 ppb.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, closure of this site appears to be consistent with the policies established by the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy which became effective on August 17, 2012.		
<p>Site Management Requirements: This fuel leak case has been evaluated for closure consistent with the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Based on sub-slab soil vapor and air sampling results for the kiosk building, there is a potential for vapor intrusion to indoor air at the site. The potential for vapor intrusion in the existing kiosk building has been mitigated. Under the current land use as an active fueling station, the remainder of the site is not required to meet media-specific criteria for vapor intrusion to indoor air. Therefore, case closure is granted for the current commercial land use as an active fueling station.</p> <p>If a change in land use to any commercial other than as an active fueling station, residential or other conservative land use, or if any re-development occurs, 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 for future buildings, ACEH will re-evaluate the case upon receipt of approved development/construction plans.</p> <p>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</p> <p>This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.</p>		
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: 5
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: ----		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

EDB and EDC were not analyzed in soil or groundwater.

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

The site appears to meet the groundwater media-specific criteria in scenario 2 for closure under the LTCP based on the following:

1. The plume is stable or decreasing in size.
2. The plume is less than 250 feet in length.
3. There is no free product.
4. The dissolved concentration of benzene is less than 3,000 ppb.
5. The dissolved concentration of MTBE is less than 1,000 ppb.
6. No water supply wells or surface water bodies are within 1,000 feet of the plume boundary.

Since the site is an active commercial fueling station, the LTCP does not require evaluation of the potential for vapor intrusion to indoor air for the on-site building. If future on-site land use changes to something other than an active fueling station, the potential for vapor intrusion to indoor air should be re-evaluated.

Based on sub-slab soil vapor and air sampling results for the kiosk building, there is a potential for vapor intrusion to indoor air at the site. The potential for vapor intrusion in the existing kiosk building has been mitigated. Under the current land use as an active fueling station, the remainder of the site is not required to meet media-specific criteria for vapor intrusion to indoor air. If future on-site land use changes to something other than an active fueling station, the potential for vapor intrusion to indoor air should be re-evaluated.

Based on the apparent horizontal distance between off-site buildings and the residual contamination and the criteria for consideration of bioattenuation zones described in the LTCP, evaluation of the potential for vapor intrusion to indoor air does not appear to be warranted for the off-site buildings.

Benzene concentrations in shallow soil exceed the direct contact and outdoor air exposure criteria prescribed in the LTCP for residential land use, commercial land use, and utility workers. Under the current land use as an active fueling station, most of the site is paved with minor landscaped areas near the site boundaries resulting in a low potential for direct exposure under the current land use. Future risks from direct contact and outdoor air exposure can be mitigated through the use of land use restrictions.

Conclusion:

Alameda County Environmental Health staff believe that the site meets the conditions for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy. Based upon the information available in our files to date, no further investigation or cleanup for the fuel leak case is necessary at this time. However, as specified in the Site Management Requirements, re-evaluation of this case is required if land uses changes to any commercial other than as an active fueling station or residential or other conservative land use.

VI. LOCAL AGENCY REPRESENTATIVE DATA

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

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

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 7/23/13	

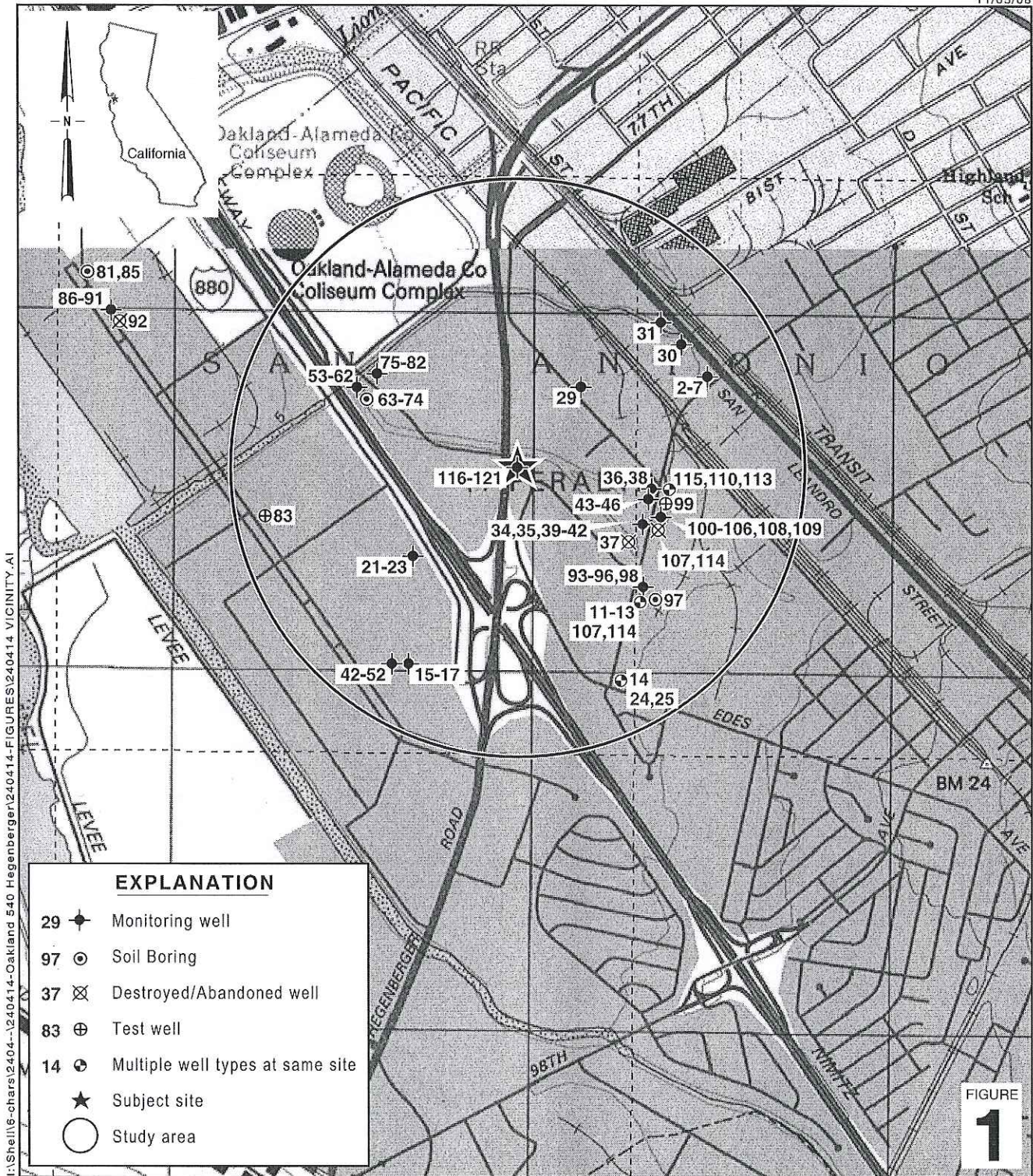
VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 10/03/2013	Date of Well Decommissioning Report: 01/06/2014	
All Monitoring Wells Decommissioned: <input checked="" type="radio"/> Yes <input type="radio"/> No	Number Decommissioned: 5	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: <i>Jerry Wickham</i>	Date: 01/09/2014	

Attachments:

1. Site Vicinity Map and Aerial Photo (2 pp)
2. Site Plans (3 pp)
3. Groundwater Contour and Chemical Concentration Maps (2 pp)
4. Soil and Soil Vapor Analytical Data (7 pp)
5. Groundwater Analytical Data (14 pp)
6. Boring Logs (14 pp)

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



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0 1/8 1/4 1/2 1
SCALE 1:1/4 MILES

Shell-branded Service Station
540 Hegenberger Road
Oakland, California



**CONESTOGA-ROVERS
& ASSOCIATES**

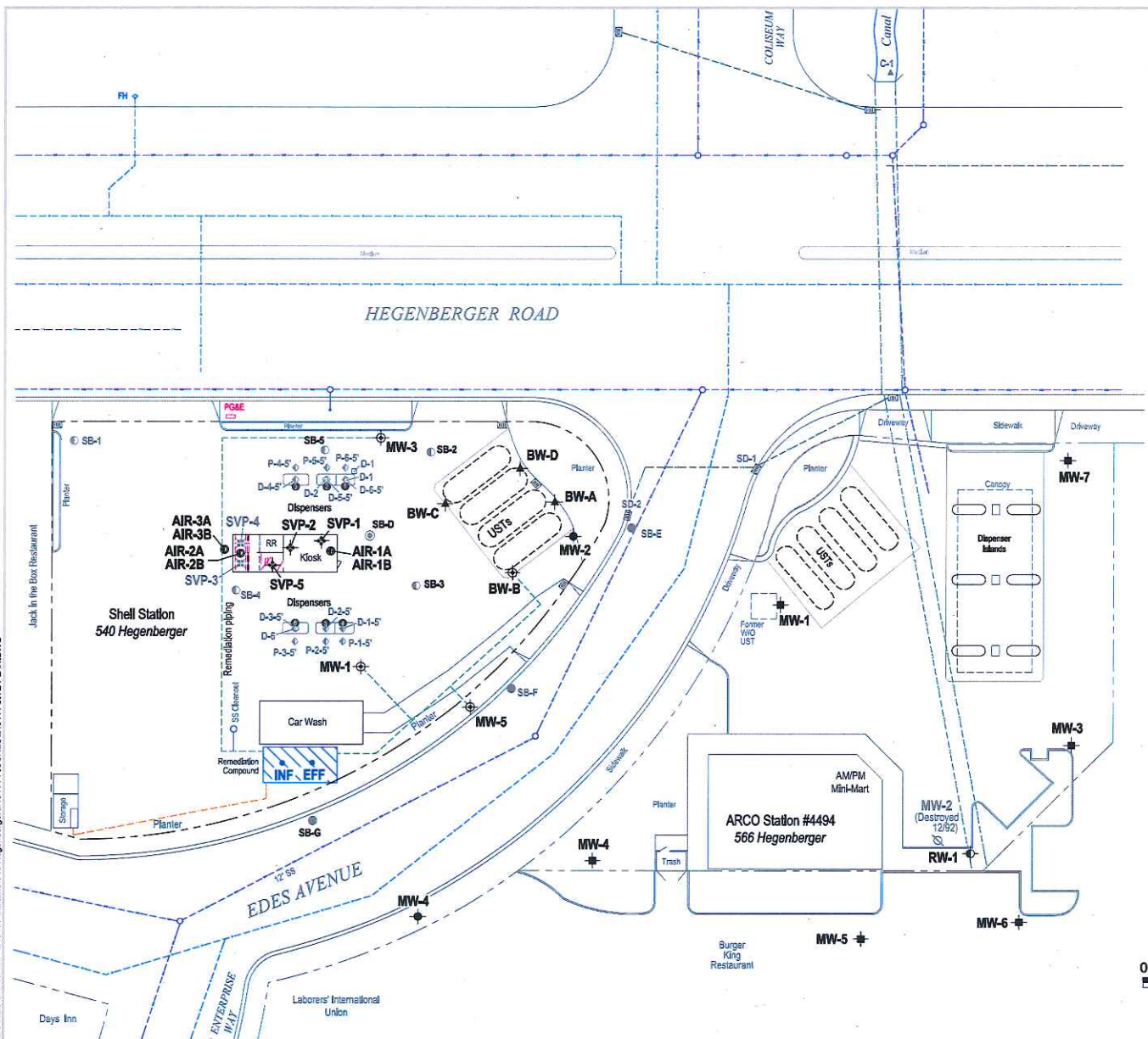
Vicinity Map

ATTACHMENT 1



540 Hegenberger Road, Oakland, CA (Google, 2013)

ES:\m\c-chana\2404-240414-04\land 540 Hegenberger\240414-FIGURES\240414 SITE PLAN.DWG



EXPLANATION	
AIR-1A AIR-1B	● Sub-slab soil vapor probe location (Shell)
SVP-3	✕ Destroyed sub-slab soil vapor probe location (Shell)
SVP-1	✦ Sub-slab soil vapor probe location (Shell)
MW-2	⊕ Monitoring well location (Shell)
BW-A	⊕ Tank backfill well location (Shell)
MW-1	⊕ Groundwater extraction well location (Shell)
MW-1	⊕ Monitoring well location (ARCO)
RW-1	⊕ Recovery well location (ARCO)
MW-2	⊕ Destroyed well location (ARCO)
D-1-5'	◇ Soil sample location (2004)
C-1	▲ Canal sampling location (2001)
SB-E	● Soil boring location (2000)
SB-D	⊙ Soil boring location (1998)
SB-1	● Soil boring location (1998)
D-1	○ Soil sample location (1998)
D-1	□ Soil sample location (1996)
INF	● GWE system sample location
---	Electrical line (E)
---	Telecommunication line (T)
---	Storm drain line (STM)
---	Sanitary sewer line (SAN)
---	Water line (W)
---	Unknown utility line (?)
FH	Fire hydrant

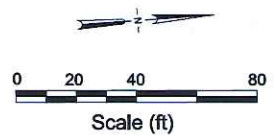
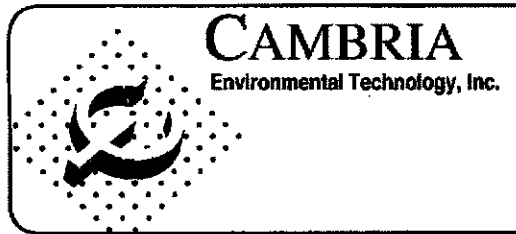
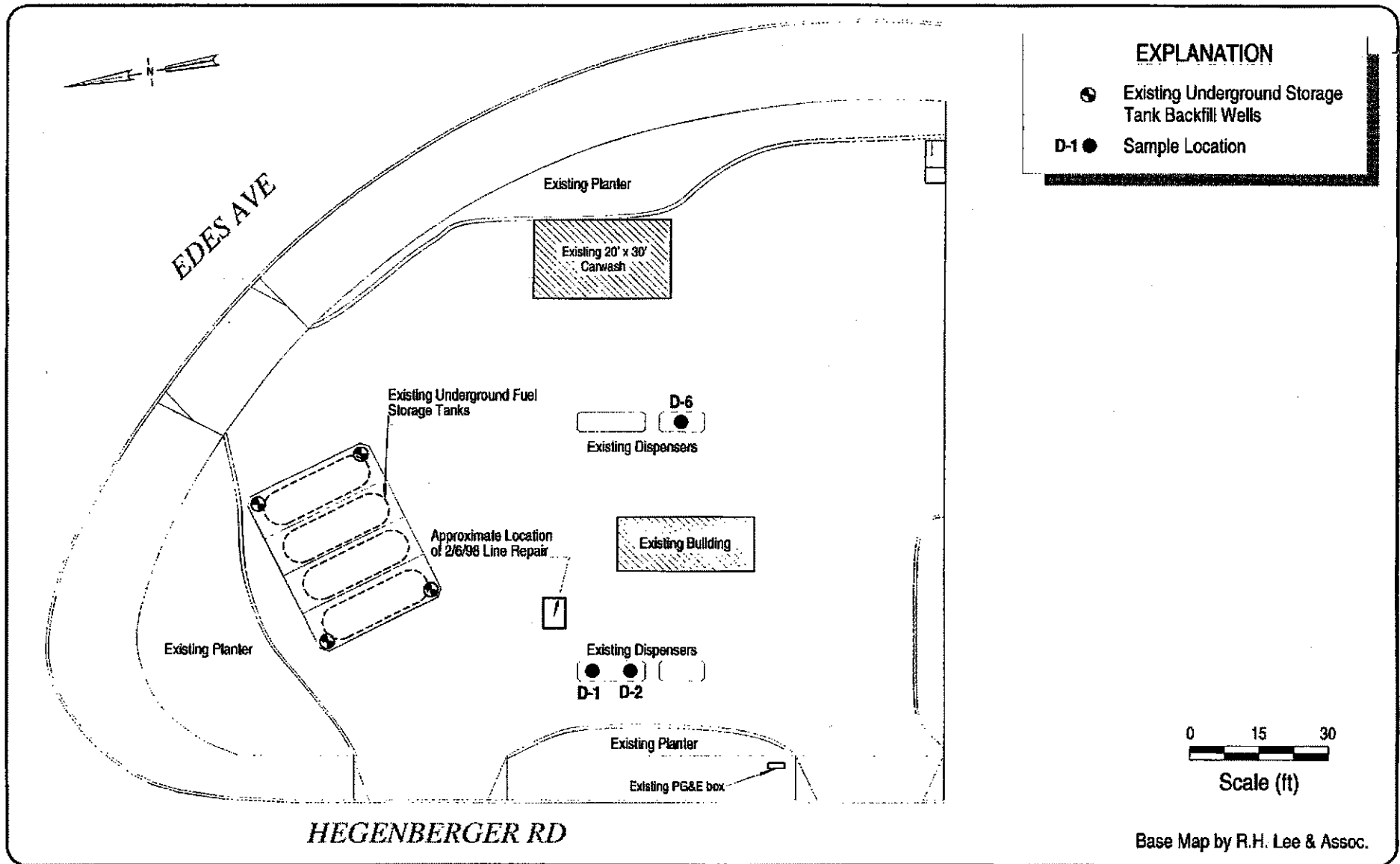


FIGURE 2

Site Plan



Shell-branded Service Station
 540 Hegenberger Road
 Oakland, California



Shell Service Station
540 Hegenberger Road
Oakland, California

P:\PROJECTS\HELL\OAKS\40\FIGURES\DISP-SMPL.DWG

Dispenser Sample Locations

FIGURE
1

EXPLANATION	
D-1-5' ◆	Soil sample location (4/22/04)
MW-2 ●	Shell monitoring well
BW-A ★	Tank backfill well
MW-1 ⊕	Well used for groundwater extraction
SB-1 ●	Soil boring location (March 1998)
SB-D ●	Soil boring location (July 1998)
SB-E ●	Soil boring location (August 2000)

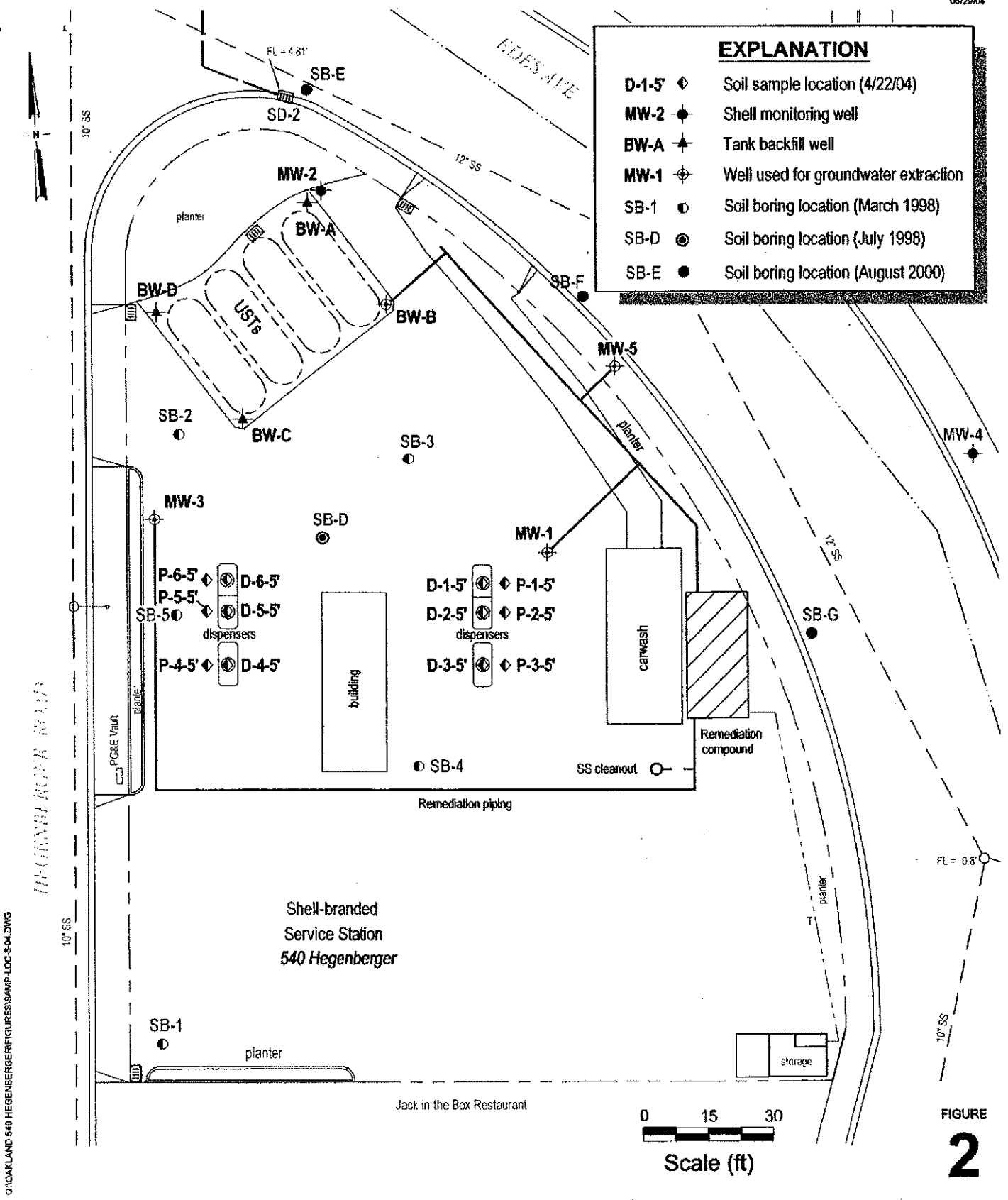


FIGURE 2

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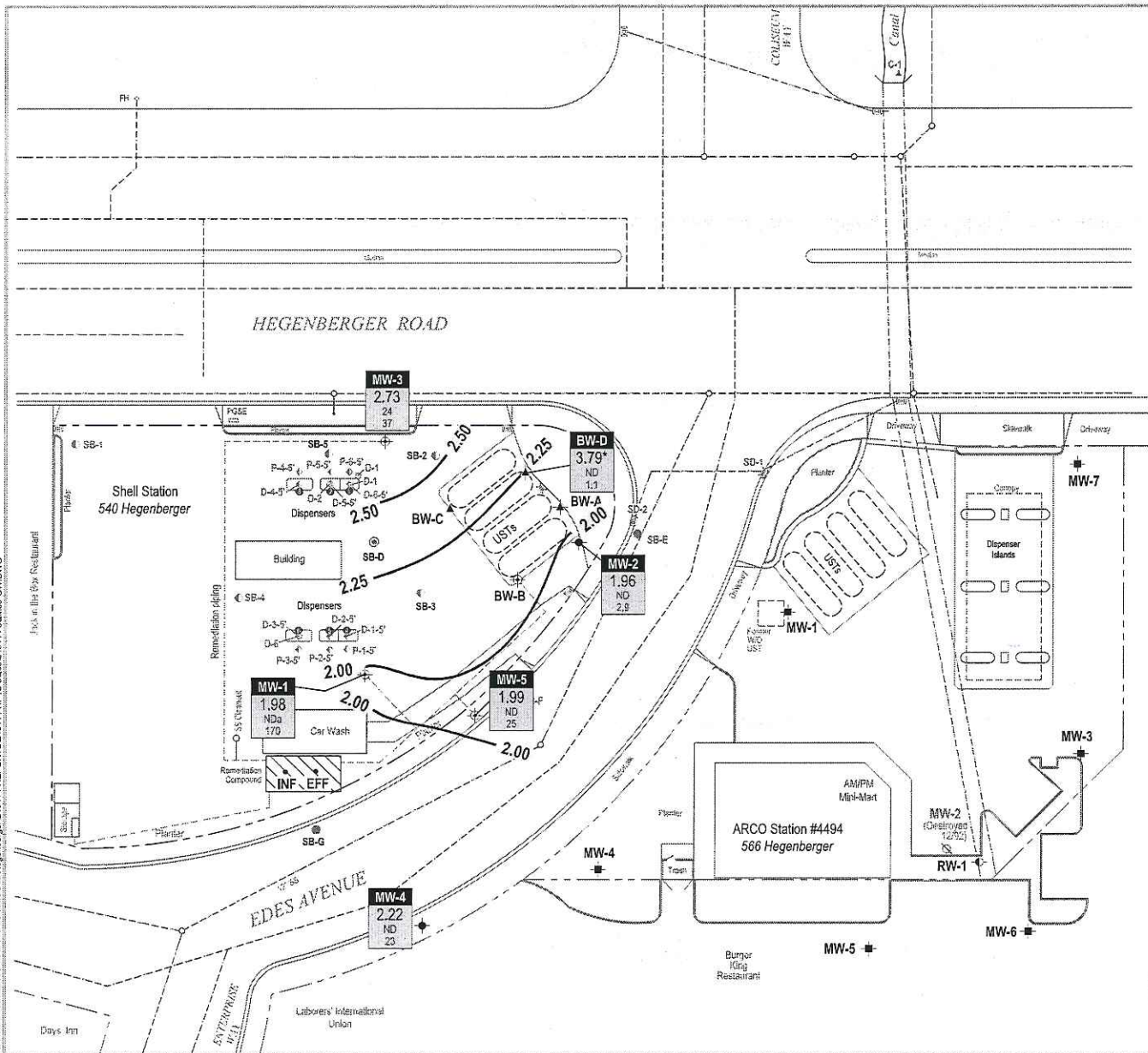
Shell-branded Service Station
 540 Hegenberger Road
 Oakland, California
 Incident #98995752



C A M B R I A

Soil Sample Location Map

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EXPLANATION

- MW-2 Monitoring well location (Shell)
- BW-A Tank backfill well location (Shell)
- MW-1 Groundwater extraction well location (Shell)
- MW-1 Monitoring well location (ARCO)
- RW-1 Recovery well location (ARCO)
- MW-2 Destroyed well location (ARCO)
- D-1-5' Soil sample location (04/04)
- C-1 Canal sampling location (2001)
- SB-E Soil boring location (08/00)
- SB-D Soil boring location (07/98)
- SB-1 Soil boring location (03/98)
- D-1 Soil sample location (01/98)
- D-1 Soil sample location (08/96)
- INF GWE system sample location

- Electrical line (E)
- Telecommunication line (T)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)
- FH Fire hydrant
- XX.XX Groundwater elevation contour, in feet above msl, dashed where inferred.

Well	ELEV	Benzene	MTBE
MW-1	1.98	NDa	170
MW-2	1.96	ND	2.8
MW-3	2.73	24	37
MW-4	2.22	ND	23
MW-5	1.99	ND	25
MW-6	2.00	ND	25
MW-7	3.79*	ND	1.1

Notes:
 ND = Not detected
 NDa = Elevated reporting limit; see laboratory report for details
 * = Data not used in contouring

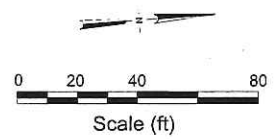


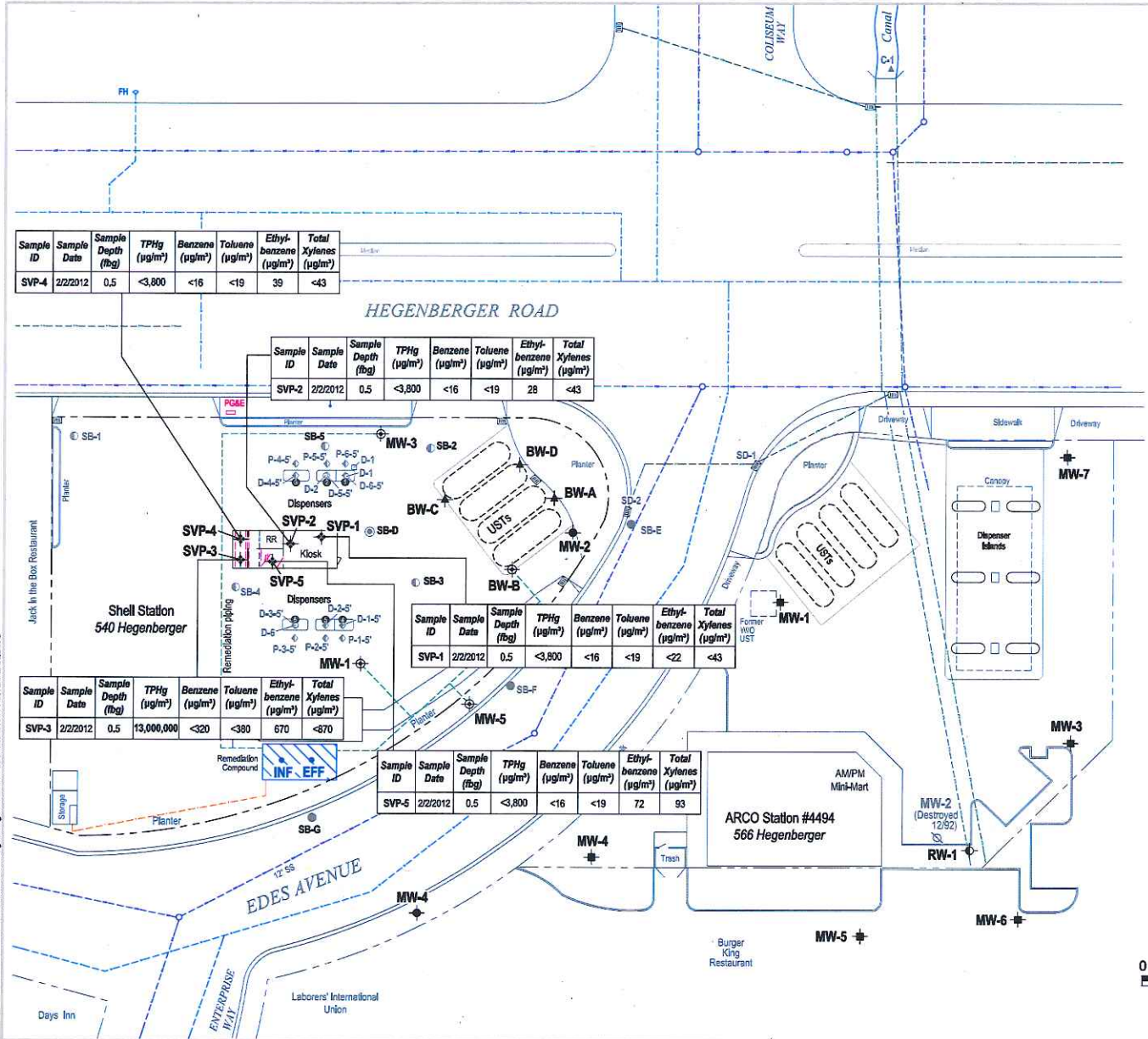
FIGURE 2

Groundwater Contour and Chemical Concentration Map

Shell-branded Service Station
540 Hegenberger Road
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

September 23, 2009



Sample ID	Sample Date	Sample Depth (ft)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-4	2/2/2012	0.5	<3,800	<16	<19	39	<43

Sample ID	Sample Date	Sample Depth (ft)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-2	2/2/2012	0.5	<3,800	<16	<19	28	<43

Sample ID	Sample Date	Sample Depth (ft)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-1	2/2/2012	0.5	<3,800	<16	<19	<22	<43

Sample ID	Sample Date	Sample Depth (ft)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-3	2/2/2012	0.5	13,000,000	<320	<380	670	<870

Sample ID	Sample Date	Sample Depth (ft)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-5	2/2/2012	0.5	<3,800	<16	<19	72	93

EXPLANATION

- SVP-1 ✦ Sub-slab soil vapor probe location (Shell)
- MW-2 ◆ Monitoring well location (Shell)
- BW-A ✦ Tank backfill well location (Shell)
- MW-1 ◆ Groundwater extraction well location (Shell)
- MW-1 ✦ Monitoring well location (ARCO)
- RW-1 ◆ Recovery well location (ARCO)
- MW-2 ◆ Destroyed well location (ARCO)
- D-1-5' ◆ Soil sample location (2004)
- C-1 ▲ Canal sampling location (2001)
- SB-E ● Soil boring location (2000)
- SB-D ⊙ Soil boring location (1998)
- SB-1 ⊙ Soil boring location (1998)
- D-1 ○ Soil sample location (1998)
- D-1 □ Soil sample location (1996)
- INF ● GWE system sample location

- Electrical line (E)
- Telecommunication line (T)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)
- Unknown utility line (?)
- FH ◆ Fire hydrant

Sample ID	Sample Date	Sample Depth (ft)	TPHg (µg/m³)	Benzene (µg/m³)	Toluene (µg/m³)	Ethyl-benzene (µg/m³)	Total Xylenes (µg/m³)
SVP-1	2/2/2012	0.5	<3,800	<16	<19	<22	<43

Notes:
 Soil vapor sample ID, date, depth in feet below grade (ftg), and concentrations in micrograms per cubic meter (µg/m³)
 TPHg = Total petroleum hydrocarbons as gasoline
 <X = Not detected at reporting limit X
 Results in **BOLD** equal or exceed environmental screening level

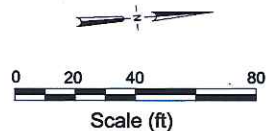


FIGURE
2

I:\shell8-clam\2404-2404-14-Oakland 540 Hegenberger\240414-FIGURES\240414 SITE PLAN.DWG

Shell-branded Service Station
540 Hegenberger Road
Oakland, California



February 2, 2012

CONESTOGA-ROVERS & ASSOCIATES

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA - TPHg, TPHd, BTEX AND MTBE
SHELL-BRANDED SERVICE STATION
540 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

<i>Sample ID</i>	<i>Date</i>	<i>Depth (fbg)</i>	<i>TPHg</i>	<i>TPHd</i>	<i>Benzene</i>	<i>Toluene</i>	<i>Ethyl- benzene</i>	<i>Total Xylenes</i>	<i>MTBE</i>
D-1	8/8/1996	Unk	3,400	---	17	280	84	450	720
D-1	1/30/1998	2	340	280	3.7	11	5.4	33	190
D-2	1/30/1998	2	89	92	0.65	3.9	0.50	3.0	150
D-6	1/30/1998	2	340	1,500	0.29	0.44	1.3	2.7	4.1
D-6	1/30/1998	5	4.2	240	<0.0050	0.014	0.0085	0.040	0.33
SB-1	3/6/1998	8	2.4	---	0.094	0.12	<0.0050	<0.0050	0.40
SB-2	3/6/1998	7.5	160	---	1.5	12	2.8	17	55
SB-3	3/6/1998	5	37	---	0.058	0.24	0.90	5.0	5.8
SB-4	3/6/1998	7.5	<1.0	---	0.0057	0.029	<0.0050	0.014	0.34
SB-5	3/6/1998	6	3,400	---	39	200	52	300	170
SB-A-5.0'	7/14/1998	5	82	---	2.1	2.4	0.34	1.4	10
SB-A-9.5'	7/14/1998	9.5	<2.5	---	0.060	<0.012	0.013	0.027	15
SB-B-5.0'	7/15/1998	5	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	1.2
SB-C-9.5'	7/14/1998		<1.0	---	<0.0050	0.0056	<0.0050	<0.0050	0.33
SB-D-5.5'	7/14/1998	5.5	460	---	4.7	35	8.5	55	240
SB-D-10.5'	7/14/1998	10.5	<1.0	---	<0.0050	<0.0050	<0.0050	<0.0050	0.44
SB-E-5.5	8/29/2000	5.5	<1.00	<5.00 ^a	<0.00500	<0.00500	<0.00500	<0.00500	0.441/0.481 ^b
SB-E-10.5	8/29/2000	10.5	<1.00	<5.00 ^a	<0.00500	<0.00500	<0.00500	<0.00500	0.248/0.0971 ^b
SB-E-15.5	8/29/2000	15.5	<5.00	<5.00 ^a	<0.0250	<0.0250	<0.0250	<0.0250	1.83/1.86 ^b
SB-E-20.5	8/29/2000	20.5	<1.00	<5.00 ^a	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500
SB-E-25.5	8/29/2000	25.5	<1.00	<5.00 ^a	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA - TPHg, TPHd, BTEX AND MTBE
SHELL-BRANDED SERVICE STATION
540 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Sample ID	Date	Depth (fbg)	TPHg	TPHd	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
SB-F-5.5	8/29/2000	5.5	<1.00	<5.00 ^a	<0.00500	<0.00500	<0.00500	<0.00500	0.0727 ^c
SB-F-10.5	8/29/2000	10.5	<1.00	<5.00 ^a	<0.00500	<0.00500	<0.00500	<0.00500	0.0551/<0.00500 ^b
SG-G-5.5	8/29/2000	5.5	2.19	<5.00 ^a	<0.00500	<0.00500	0.132	0.258	0.141/0.0505 ^b
SG-G-10.5	8/29/2000	10.5	468	108 ^{a,d}	<0.250	1.88	7.05	26.9	<2.50
MW-4-5.5	9/5/2000	5.5	<1.00	31.7 ^a	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500
MW-4-10.5	9/5/2000	10.5	<1.00	<5.00 ^a	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500
MW-4-15.5	9/5/2000	15.5	<1.00	<5.00 ^a	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500
MW-4-19.0	9/5/2000	19	<1.00	<5.00 ^a	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500
MW-5-5.5	6/7/2002	5.5	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5
MW-5-9.0	6/7/2002	9	<1.0	---	<0.005	<0.005	<0.005	<0.005	<0.5
MW-5-14.0	6/7/2002	14	<5.0	---	<0.025	<0.025	<0.025	<0.050	13
MW-5-19.0	6/7/2002	19	<1.0	---	<0.005	<0.005	<0.005	<0.010	5.5
D-1-5'	4/22/2004	5	1,000	---	3.7	<2.5	12	<2.5	18
D-2-5'	4/22/2004	5	1,300	1,200 ^e	4.3	<0.50	14	2.6	23
D-3-5'	4/22/2004	5	6.6	---	0.15	0.031	0.063	0.047	0.66
D-4-5'	4/22/2004	5	<50	---	1.0	<0.50	2.0	<0.50	33
D-5-5'	4/22/2004	5	<50	---	0.59	3.4	0.67	3.3	43
D-6-5'	4/22/2004	5	59	---	<0.50	<0.50	<0.50	0.6	9.8
P-1-5'	4/22/2004	5	<50	---	<0.50	<0.50	1.3	0.65	7.4
P-2-5'	4/22/2004	5	240	1,200 ^e	2.8	<0.50	1.3	1.2	13
P-3-5'	4/22/2004	5	240	---	<1.3	<1.3	2.2	<1.3	<1.3
P-4-5'	4/22/2004	5	<50	---	<0.50	<0.50	<0.50	<0.50	7.3

TABLE 1

**HISTORICAL SOIL ANALYTICAL DATA - TPHg, TPHd, BTEX AND MTBE
SHELL-BRANDED SERVICE STATION
540 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Sample ID	Date	Depth (fbg)	TPHg	TPHd	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
P-5-5'	4/22/2004	5	1,400	---	<2.5	<2.5	3.1	2.5	3.4
P-6-5'	4/22/2004	5	180	---	<0.50	<0.50	1.3	<0.50	6.0
<i>Shallow Soil (<=10 fbg) ESL</i>			100	100	0.27	9.3	4.7	11	8.4
<i>Deep Soil (>10 fbg) ESL</i>			180	180	2.0	9.3	4.7	11	8.4

Notes:

All results in milligrams per kilograms (mg/kg) unless otherwise indicated.

fbg = Feet below grade

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before June 7, 2002, analyzed by EPA Method 8015.

TPHd = Total petroleum hydrocarbons as diesel, analyzed by EPA Method 8015

BTEX = Benzene, toluene, ethylbenzene, and xylenes, analyzed by EPA Method 8260B; before June 7, 2002, analyzed by EPA Method 8020

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B; before June 7, 2002, analyzed by EPA Method 8020 unless otherwise noted

Unk = Unknown

<x = Not detected at reporting limit x

--- = Not analyzed

Results in **bold** equal or exceed applicable ESL

a = Analyzed with silica gel clean-up

b = Analyzed by EPA Method 8260B

c = MTBE not confirmed due to lab error.

d = Results in the diesel organics are elevated due to overlap from higher boiling point hydrocarbons

e = Reported hydrocarbon does not match lab's diesel standard.

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

TABLE 1

**HISTORICAL SOIL VAPOR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
540 HEGENBERGER ROAD, OAKLAND, CALIFORNIA**

Sample ID	Date	Depth (fbg)	TPHg ($\mu\text{g}/\text{m}^3$)	B ($\mu\text{g}/\text{m}^3$)	T ($\mu\text{g}/\text{m}^3$)	E ($\mu\text{g}/\text{m}^3$)	X ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	TBA ($\mu\text{g}/\text{m}^3$)	Naphthalene ($\mu\text{g}/\text{m}^3$)	Methane (%v)	Carbon Dioxide (%v)	Oxygen + Argon (%v)	Helium (%v)
SVP-1	3/9/2011	0.5	74,000	<16	<19	28	52	<36	<30	<52	<0.500	8.59	10.2	2.31
SVP-1	3/31/2011	0.5	180,000	<16	<19	<22	<43	<36	<30	<52	<0.500	12.7	2.92	<0.0100
SVP-1	2/2/2012	0.5	<3,800	<16	<19	<22	<43	<36	<30	<52	<0.500	10.5	7.60	0.0124
SVP-2	3/9/2011	0.5	14,000	<16	<19	40	140	<36	<30	<52	<0.500	3.19	16.8	4.70
SVP-2	3/31/2011	0.5	<7,000	<16	<19	<22	<43	<36	<30	<52	<0.500	5.62	11.7	<0.0100
SVP-2	2/2/2012	0.5	<3,800	<16	<19	28	<43	<36	<30	<52	<0.500	5.67	13.6	0.0106
SVP-3	3/9/2011	0.5	11,000,000	<320	<380	640	1,400	<720	<610	<1,000	2.11	4.71	10.6	<0.0100
SVP-3	3/31/2011	0.5	17,000,000	<320	<380	550	<870	<720	<610	<1,000	2.75	7.07	3.03	3.05
SVP-3	2/2/2012	0.5	13,000,000	<320	<380	670	<870	<720	<610	<1,000	3.62	8.25	4.83	0.0116
SVP-4	2/2/2012	0.5	<3,800	<16	<19	39	<43	<36	<30	<52	<0.500	10.3	4.24	<0.0100
SVP-5	2/2/2012	0.5	<3,800	<16	<19	72	93	<36	75	<52	<0.500	2.68	17.7	<0.0100
ESLs ^a			29,000	280	180,000	3,300	58,000	31,000	NA	240	NA	NA	NA	NA

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method TO-3M

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B (M)

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B (M)

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B (M)

Naphthalene analyzed by EPA Method 8260B (M)

Methane, carbon dioxide, and oxygen + argon analyzed by ASTM D-1946

Helium analyzed by ASTM D-1946 (M)

fbg = Feet below grade

 $\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter

%v = Percent by volume

<x = Not detected at reporting limit x

HISTORICAL SOIL VAPOR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
540 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

ESL = Environmental screening level

NA = No applicable ESL

Results in **bold** exceed environmental screening level

a = 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).

Mr. Don Hwang
November 8, 1996

CAMBRIA

Table 2. Hydrocarbon Concentrations in Air								
Concentrations in parts per million by volume (ppmv)								
Sample ID	Date	Location	TPHg	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes
Air-1	9/3/96	SE Tank Backfill observation well	900	420	6.9	48	2.3	14
Air-2	9/6/96	Storeroom	< 1.4	< 1.4	< 0.016	0.029	< 0.012	< 0.012
Air 919-2	9/19/96	Storeroom	170	< 25	< 0.25	1.9	< 0.25	0.54

CLOSING

Based on the soil and air sampling results, the hydrocarbon release from the dispenser appears to be limited in volume. There was no indication of accumulated liquid-phase hydrocarbons or associated vapors in any underground air spaces near the dispensers. Although gasoline vapors were detected in the tank backfill monitoring well, the concentrations detected are not indicative of liquid-phase hydrocarbons. Had liquid-phase hydrocarbons been present, we would expect hydrocarbon vapor concentrations to approach the lower explosive limit for gasoline, or about 14,000 ppmv. Although hydrocarbons were detected in the floor drain, the concentrations were relatively low and do not exceed permissible exposure limits.

We appreciate the opportunity to work with you on this case. Please call me at (510) 420-9172 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.


N. Scott MacLeod, R.G.
Principal Geologist



Attachments: A - Site Map
B - Analytical Reports
C - Standard Field Procedures for Soil Sampling

cc: R. Jeff Granberry, Shell Oil Products Company
Brett Hovland, Shell Oil Products Company

F:\PROJECTS\HELL\OAKS40\REPORT-1.WPD

TABLE 1

AIR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
540 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

Sample ID	Date	TPHg ($\mu\text{g}/\text{m}^3$)	B ($\mu\text{g}/\text{m}^3$)	T ($\mu\text{g}/\text{m}^3$)	E ($\mu\text{g}/\text{m}^3$)	X ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	Acetone ($\mu\text{g}/\text{m}^3$)	2-Butanone ($\mu\text{g}/\text{m}^3$)	Carbon Disulfide ($\mu\text{g}/\text{m}^3$)	Chloro- methane ($\mu\text{g}/\text{m}^3$)	Dichloro- difluoro- methane ($\mu\text{g}/\text{m}^3$)	4-Ethyl- Toluene ($\mu\text{g}/\text{m}^3$)	Methylene Chloride ($\mu\text{g}/\text{m}^3$)	4-Methyl- 2-pentanone ($\mu\text{g}/\text{m}^3$)	Trichloro- ethene ($\mu\text{g}/\text{m}^3$)	Hexachloro- butadiene ($\mu\text{g}/\text{m}^3$)	Trichloro- fluoro- methane ($\mu\text{g}/\text{m}^3$)	1,2,4- Trimethyl- benzene ($\mu\text{g}/\text{m}^3$)	1,3,5- Trimethyl- benzene ($\mu\text{g}/\text{m}^3$)	Styrene ($\mu\text{g}/\text{m}^3$)	Vinyl acetate ($\mu\text{g}/\text{m}^3$)
AIR-1A	3/11/2013	<12,000	2.8	15	2.4	13	<2.9	14	<2.4	2.8	1.8	3.2	2.6	22	3.0	2.5	<8.5	<2.2	<3.9	<2.0	<1.7	<2.8
AIR-1B	5/6/2013	<15,000	1.4	5.3	0.94 a	7.0	<2.9	17	2.2 a	<2.5	1.3 a	3.0	1.3 a	1.4	<1.6	<2.1	3.3 a	3.0	1.6 a	<2.0	<1.7	<2.8
AIR-2A	3/11/2013	<12,000	4.1	23	3.7	20	<2.9	29	3.0	<2.5	<1.7	6.0	3.5	<1.4	<1.6	<2.1	<8.5	<2.2	<3.9	<2.0	<1.7	<2.8
AIR-2B	5/6/2013	<12,000	1.2 a	9.0	1.5 a	7.4	<2.9	40	8.1	1.5 a	1.3 a	2.7	<2.0	3.1	0.92 a	<2.1	<8.5	110	<3.9	<2.0	0.92 a	0.80 a
AIR-3A	3/11/2013	<12,000	1.5	5.0	<1.7	5.0	<2.9	6.0	<2.4	<2.5	1.8	2.6	<2.0	<1.4	<1.6	<2.1	<8.5	<2.2	<3.9	<2.0	<1.7	<2.8
AIR-3B	5/6/2013	<15,000	1.3 a	4.2	0.74 a	7.5	<2.9	13	2.9	0.67 a	1.3 a	2.6	1.1 a	0.85 a	<1.6	<2.1	<8.5	18	1.3 a	0.94 a	<1.7	<2.8
ESLs ^b		1,200	0.42	1,300	4.9	440	47	140,000	22,000	NA	390	NA	NA	26	13,000	3.0	NA	NA	NA	NA	3,900	NA

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method TO-3

All other constituents are volatile organic compounds analyzed by EPA Method TO-15; all detections tabulated. See laboratory report for details.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary-butyl ether

 $\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter

<x = Not detected at reporting limit x

ESL = Environmental screening level

NA = No applicable ESL

Results in bold exceed environmental screening level

a = Detection is below the method reporting limit but above the method detection limit.

b = San Francisco Bay Regional Water Quality Control Board (RWQCB) indoor air screening level - 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) - Updated May 2013.

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1 (a)	08/26/1998	2,700	28	55	59	39	33,000	NA	NA	NA	NA	NA	NA	10.54	7.91	2.63	1.8
MW-1 (b)	08/26/1998	<1,000	22	<10	<10	<10	17,000	NA	NA	NA	NA	NA	NA	10.54	7.91	2.63	2.2
MW-1	12/28/1998	<5,000	<50.0	<50.0	<50.0	<50.0	153,000	33,000	NA	NA	NA	NA	NA	10.54	8.75	1.79	1.9
MW-1	03/29/1999	<2,000	<20.0	<20.0	<20.0	<20.0	693,000	NA	NA	NA	NA	NA	NA	10.54	8.32	2.22	2.0
MW-1	06/22/1999	20,000	<200	<200	<200	<200	150,000	NA	NA	NA	NA	NA	NA	10.54	9.05	1.49	1.7
MW-1	09/30/1999	<2,500	<25.0	<25.0	<25.0	<25.0	30,900	NA	NA	NA	NA	NA	NA	10.54	8.35	2.19	2.6
MW-1	11/19/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	9.58	0.96	NA
MW-1	11/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	9.65	0.89	NA
MW-1	12/02/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.54	9.55	0.99	NA
MW-1	12/10/1999	<50.0	29.7	<20.0	<20.0	<20.0	76,300	NA	NA	NA	NA	NA	NA	10.54	8.86	1.68	1.2
MW-1	03/02/2000	<2,500	<25.0	<25.0	<25.0	<25.0	27,600	NA	NA	NA	NA	NA	NA	10.54	8.83	1.71	3.2
MW-1	06/08/2000	<2,000	<20.0	<20.0	<20.0	<20.0	59,000	67,600	NA	NA	NA	NA	NA	10.54	7.78	2.76	1.9
MW-1	09/05/2000	<10,000	411	<100	<100	<100	71,100	115,000 e	NA	NA	NA	NA	NA	10.54	7.84	2.70	NA
MW-1	12/15/2000	35,600	1,310	<50.0	<50.0	<50.0	136,000	f	NA	NA	NA	NA	NA	10.54	7.65	2.89	NA
MW-1	03/09/2001	<10,000	1,390	<100	<100	<100	89,600	164,000	NA	NA	NA	NA	NA	10.54	6.44	4.10	NA
MW-1	06/27/2001	<5,000	<50	<50	<50	<50	NA	19,000	NA	NA	NA	NA	NA	10.54	8.46	2.08	NA
MW-1	09/19/2001	<5,000	<50	<50	<50	<50	NA	52,000	NA	NA	NA	NA	NA	10.54	8.10	2.44	NA
MW-1	12/31/2001	<5,000	<25	<25	<25	<25	NA	17,000	NA	NA	NA	NA	NA	10.54	7.31	3.23	NA
MW-1	03/14/2002	<20,000	<200	<200	<200	<200	NA	60,000	NA	NA	NA	NA	NA	10.54	7.68	2.86	NA
MW-1	06/25/2002	<5,000	<50	<50	<50	<50	NA	34,000	NA	NA	NA	NA	NA	10.54	8.40	2.14	NA
MW-1	09/19/2002	<2,500	<25	<25	<25	<25	NA	18,000	NA	NA	NA	NA	NA	10.52	8.58	1.94	NA
MW-1	12/12/2002	<5,000	<50	<50	<50	<50	NA	30,000	NA	NA	NA	NA	NA	10.52	8.41	2.11	NA
MW-1	01/02/2003	NA	<0.50	<0.50	<0.50	<1.0	NA	NA	NA	NA	NA	NA	NA	10.52	7.45	3.07	NA
MW-1	03/20/2003 g	3,800	<25	<25	<25	<25	5,500	NA	NA	NA	NA	NA	NA	10.52	8.21	2.31	NA
MW-1	06/23/2003	<10,000	<100	<100	<100	<200	NA	35,000	NA	NA	NA	NA	NA	10.52	9.02	1.50	NA
MW-1	09/22/2003	<5,000	<50	<50	<50	<100	NA	15,000	NA	NA	NA	NA	NA	10.52	15.74	-5.22	NA
MW-1	12/03/2003	<1,300	<13	<13	<13	<25	NA	3,600	NA	NA	NA	NA	NA	10.52	18.35 h	NA	NA
MW-1	03/18/2004	<250	<2.5	<2.5	<2.5	<5.0	NA	570	NA	NA	NA	NA	NA	10.52	7.32	3.20	NA
MW-1	05/25/2004	<250	<2.5	<2.5	<2.5	<5.0	NA	250	NA	NA	NA	NA	NA	10.52	6.80	3.72	NA

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Well ID	Date	TPPH (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	09/22/2004	<2,000	<20	<20	<20	<40	NA	170	<80	<80	<80	20,000	<2,000	10.52	6.55	3.97	NA
MW-1	12/22/2004	<500	<5.0	<5.0	<5.0	<10	NA	57	NA	NA	NA	NA	NA	10.52	6.44	4.08	NA
MW-1	02/23/2005	<2,000	<20	<20	<20	<40	NA	110	NA	NA	NA	NA	NA	10.52	5.79	4.73	NA
MW-1	06/27/2005	<250	<2.5	<2.5	<2.5	<5.0	NA	16	NA	NA	NA	NA	NA	10.52	6.43	4.09	NA
MW-1	08/31/2005	<250	<2.5	<2.5	<2.5	<5.0	NA	32	<10	<10	<10	4,000	<250	9.27	6.38	2.89	NA
MW-1	12/14/2005	<50.0	<0.500	2.03	<0.500	<0.500	NA	30.4	NA	NA	NA	NA	NA	9.27	6.46	2.81	NA
MW-1	03/08/2006	417	1.87	<0.500	<0.500	0.830	NA	17.8	NA	NA	NA	3,380	NA	9.27	6.21	3.06	NA
MW-1	06/14/2006	728	282	1.61	4.16	9.82	NA	109	NA	NA	NA	2,950	NA	9.27	6.86	2.41	NA
MW-1	09/27/2006	817	<0.500	<0.500	<0.500	<0.500	NA	122	<0.500	<0.500	<0.500	1,420	<50.0	9.27	7.70	1.57	NA
MW-1	11/30/2006	150	<0.50	<0.50	<0.50	<1.0	NA	54	NA	NA	NA	3,200	NA	9.27	7.59	1.68	NA
MW-1	03/06/2007	150 k	<0.50 k	<1.0 k	<0.50 k	<1.0 k	NA	40 k	NA	NA	NA	3,600 k	NA	9.27	6.38	2.89	NA
MW-1	06/11/2007	340	<5.0	<10	<10	<10	NA	23	NA	NA	NA	14,000	NA	9.27	7.88	1.39	NA
MW-1	09/26/2007	190 m,n	<2.5	<5.0	<5.0	<5.0	NA	490	<10	<10	<10	460	<500	9.27	7.03	2.24	NA
MW-1	12/28/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	120	NA	NA	NA	710	NA	9.27	7.40	1.87	NA
MW-1	03/31/2008	360	<0.50	<1.0	<1.0	<1.0	NA	350	NA	NA	NA	890	NA	9.27	7.41	1.86	NA
MW-1	06/23/2008	280	<2.5	<5.0	<5.0	<5.0	NA	180	NA	NA	NA	620	NA	9.27	6.80	2.47	NA
MW-1	09/22/2008	90	<0.50	<1.0	<1.0	<1.0	NA	6.1	<2.0	<2.0	<2.0	1,400	<100	9.27	7.18	2.09	NA
MW-1	12/16/2008	NA	<0.50	<1.0	<1.0	<1.0	NA	190	NA	NA	NA	820	NA	9.27	7.17	2.10	NA
MW-1	02/27/2009	290	<0.50	<1.0	<1.0	<1.0	NA	140	NA	NA	NA	820	NA	9.27	5.82	3.45	NA
MW-1	06/11/2009	220	<1.0	<2.0	<2.0	<2.0	NA	180	NA	NA	NA	1,200	NA	9.27	7.90	1.37	NA
MW-1	09/23/2009	150	<1.0	<2.0	<2.0	<2.0	NA	170	<4.0	<4.0	<4.0	1,100	<200	9.27	7.29	1.98	NA
MW-2 (a)	08/26/1998	<250	3.2	<2.5	<2.5	<2.5	4,000	NA	NA	NA	NA	NA	NA	9.21	7.18	2.03	2.4
MW-2 (b)	08/26/1998	<250	3.1	<2.5	<2.5	<2.5	4,800	NA	NA	NA	NA	NA	NA	9.21	7.18	2.03	2.7
MW-2 (D)(b)	08/26/1998	<250	4.8	<2.5	<2.5	6.0	3,300	NA	NA	NA	NA	NA	NA	9.21	7.18	2.03	2.7
MW-2	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	28.8	NA	NA	NA	NA	NA	NA	9.21	7.34	1.87	2.1
MW-2	03/29/1999	235	<0.500	<0.500	<0.500	3.4	101	NA	NA	NA	NA	NA	NA	9.21	6.85	2.36	2.0
MW-2	06/22/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	NA	NA	NA	NA	NA	9.21	7.10	2.11	1.9
MW-2	09/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	1,700	NA	NA	NA	NA	NA	NA	9.21	8.06	1.15	1.0

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MW-2	12/10/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	9.21	8.61	0.60	1.4
MW-2	03/02/2000	<500	11.5	<5.00	<5.00	<5.00	5,280	NA	NA	NA	NA	NA	NA	9.21	6.33	2.88	0.4
MW-2	06/08/2000	<50.0	0.670	<0.500	<0.500	<0.500	3,160	NA	NA	NA	NA	NA	NA	9.21	6.87	2.34	1.6
MW-2	09/05/2000	<1,000	<10.0	<10.0	<10.0	<10.0	9,600	NA	NA	NA	NA	NA	NA	9.21	6.79	2.42	NA
MW-2	12/15/2000	<200	<2.00	<2.00	<2.00	<2.00	6,320	NA	NA	NA	NA	NA	NA	9.21	6.76	2.45	NA
MW-2	03/09/2001	<500	<5.00	<5.00	<5.00	<5.00	17,200	NA	NA	NA	NA	NA	NA	9.21	6.28	2.93	NA
MW-2	06/27/2001	<100	1.4	<1.0	<1.0	<2.0	NA	470	NA	NA	NA	NA	NA	9.21	7.12	2.09	NA
MW-2	09/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	330	NA	NA	NA	NA	NA	9.21	7.17	2.04	NA
MW-2	12/31/2001	<100	<1.0	<1.0	<1.0	<1.0	NA	420	NA	NA	NA	NA	NA	9.21	6.24	2.97	NA
MW-2	03/14/2002	<250	4.5	3.3	<2.5	<2.5	NA	1,600	NA	NA	NA	NA	NA	9.21	6.72	2.49	NA
MW-2	06/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	110	NA	NA	NA	NA	NA	9.21	7.23	1.98	NA
MW-2	09/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	90	NA	NA	NA	NA	NA	9.19	7.48	1.71	NA
MW-2	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	170	NA	NA	NA	NA	NA	9.19	7.33	1.86	NA
MW-2	03/20/2003 g	56	<0.50	<0.50	<0.50	<0.50	58	NA	NA	NA	NA	NA	NA	9.19	7.65	1.54	NA
MW-2	06/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	44	NA	NA	NA	NA	NA	9.19	8.72	0.47	NA
MW-2	09/22/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	37	NA	NA	NA	NA	NA	9.19	8.84	0.35	NA
MW-2	12/03/2003	<250	<2.5	<2.5	<2.5	<5.0	NA	99	NA	NA	NA	NA	NA	9.19	8.95	0.24	NA
MW-2	03/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	24	NA	NA	NA	NA	NA	9.19	7.19	2.00	NA
MW-2	05/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	53	NA	NA	NA	NA	NA	9.19	8.40	0.79	NA
MW-2	09/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	24	<2.0	<2.0	<2.0	100	<50	9.19	7.08	2.11	NA
MW-2	12/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	39	NA	NA	NA	NA	NA	9.19	7.09	2.10	NA
MW-2	02/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	38	NA	NA	NA	NA	NA	9.19	6.50	2.69	NA
MW-2	06/27/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	28	NA	NA	NA	NA	NA	9.19	7.17	2.02	NA
MW-2	08/31/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	5.5	<2.0	<2.0	<2.0	19	<50	9.19	7.21	1.98	NA
MW-2	12/14/2005	<50.0	<0.500	2.16	<0.500	<0.500	NA	5.33	NA	NA	NA	NA	NA	9.19	7.13	2.06	NA
MW-2	03/08/2006	<50.0	<0.500	<0.500	<0.500	0.560	NA	18.8	NA	NA	NA	<10.0	NA	9.19	6.02	3.17	NA
MW-2	06/14/2006	<50.0	<0.500	0.680	<0.500	<0.500	NA	2.17	NA	NA	NA	<10.0	NA	9.19	7.19	2.00	NA
MW-2	09/27/2006	276	<0.500	<0.500	<0.500	<0.500	NA	5.29	<0.500	<0.500	<0.500	30	<50.0	9.19	7.45	1.74	NA
MW-2	11/30/2006	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	NA	NA	NA	<5.0	NA	9.19	7.30	1.89	NA
MW-2	03/06/2007	<50 k	<0.50 k	<1.0 k	<0.50 k	<1.0 k	NA	0.87 k	NA	NA	NA	<5.0 k	NA	9.19	6.70	2.49	NA

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Well ID	Date	TPPH (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	06/11/2007	<50	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	<10	NA	9.19	7.14	2.05	NA
MW-2	09/26/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	2.1	<2.0	<2.0	<2.0	<10	<100	9.19	7.34	1.85	NA
MW-2	12/28/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	0.571	NA	NA	NA	<10	NA	9.19	6.79	2.40	NA
MW-2	03/31/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.4	NA	NA	NA	<10	NA	9.19	7.09	2.10	NA
MW-2	06/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.5	NA	NA	NA	<10	NA	9.19	7.00	2.19	NA
MW-2	09/22/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	<1.0	<2.0	<2.0	<2.0	<10	<100	9.19	7.28	1.91	NA
MW-2	12/16/2008	NA	<0.50	<1.0	<1.0	<1.0	NA	2.6	NA	NA	NA	<10	NA	9.19	7.22	1.97	NA
MW-2	02/27/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	<10	NA	9.19	6.00	3.19	NA
MW-2	06/11/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	1.2	NA	NA	NA	<10	NA	9.19	7.28	1.91	NA
MW-2	09/23/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	2.9	<2.0	<2.0	<2.0	<10	<100	9.19	7.23	1.96	NA
MW-3 (a)	08/26/1998	2,300	180	330	<0.50	420	44,000	NA	NA	NA	NA	NA	NA	9.45	6.52	2.93	1.8
MW-3 (b)	08/26/1998	<50	<0.50	<0.50	<0.50	<0.50	52,000	75,000	NA	NA	NA	NA	NA	9.45	6.52	2.93	2.3
MW-3	12/28/1998	<5,00	139	<50.0	<50.0	<50.0	15,100	NA	NA	NA	NA	NA	NA	9.45	6.73	2.72	1.7
MW-3	03/29/1999	52,500	5,500	6,900	1,360	6,250	508,000	630,000 c	NA	NA	NA	NA	NA	9.45	6.21	3.24	2.1
MW-3	06/22/1999	58,000	6,600	9,850	1,640	6,950	677,000	653,000	NA	NA	NA	NA	NA	9.45	7.00	2.45	1.3
MW-3	09/30/1999	4,360	121	122	36.1	647	33,700	35,600	NA	NA	NA	NA	NA	9.45	6.84	2.61	0.6
MW-3	11/19/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	7.93	1.52	NA
MW-3	11/24/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	8.25	1.20	NA
MW-3	12/02/1999	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.45	7.55	1.90	NA
MW-3	12/10/1999	4,220	973	26.3	273	584	88,200	NA	NA	NA	NA	NA	NA	9.45	7.28	2.17	2.5
MW-3	03/02/2000	65,300	5,210	10,300	2,650	15,100	56,800	59,800 e	NA	NA	NA	NA	NA	9.45	5.87	3.58	d
MW-3	06/08/2000	72,700	3,570	10,200	2,100	13,400	44,400	NA	NA	NA	NA	NA	NA	9.45	5.32	4.13	1.1
MW-3	09/05/2000	26,100	959	2,910	1,090	5,640	24,000	NA	NA	NA	NA	NA	NA	9.45	5.60	3.85	NA
MW-3	12/15/2000	5,190	438	8.39	483	530	19,100	11,800 f	NA	NA	NA	NA	NA	9.45	6.27	3.18	NA
MW-3	03/09/2001	5,880	472	42.2	392	1,290	41,800	NA	NA	NA	NA	NA	NA	9.45	5.71	3.74	NA
MW-3	06/27/2001	9,100	330	79	140	1,600	NA	31,000	NA	NA	NA	NA	NA	9.45	6.88	2.57	NA
MW-3	09/19/2001	790	14	18	17	67	NA	8,100	NA	NA	NA	NA	NA	9.45	6.70	2.75	NA
MW-3	12/31/2001	<5,000	220	<50	86	<50	NA	22,000	NA	NA	NA	NA	NA	9.45	5.92	3.53	NA
MW-3	03/14/2002	<2,500	<25	<25	<25	<25	NA	12,000	NA	NA	NA	NA	NA	9.45	6.25	3.20	NA

WELL CONCENTRATIONS
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MW-3	06/25/2002	<10,000	160	<100	<100	<100	NA	42,000	NA	NA	NA	NA	NA	9.45	6.65	2.80	NA
MW-3	09/19/2002	<10,000	650	<100	280	360	NA	84,000	NA	NA	NA	NA	NA	9.45	6.51	2.94	NA
MW-3	12/12/2002	<10,000	170	<100	<100	<100	NA	45,000	NA	NA	NA	NA	NA	9.45	6.97	2.48	NA
MW-3	01/02/2003	NA	59	<5.0	5.3	<10	NA	NA	NA	NA	NA	NA	NA	9.45	5.90	3.55	NA
MW-3	03/20/2003 g	5,100	<50	<50	<50	<50	4,400	NA	NA	NA	NA	NA	NA	9.45	6.87	2.58	NA
MW-3	06/23/2003	<5,000	<50	<50	<50	<100	NA	8,100	NA	NA	NA	NA	NA	9.45	13.80	-4.35	NA
MW-3	09/22/2003	<250	<2.5	4.6	<2.5	<5.0	NA	470	NA	NA	NA	NA	NA	9.45	6.31	3.14	NA
MW-3	12/03/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	180	NA	NA	NA	NA	NA	9.45	14.77 h	NA	NA
MW-3	03/18/2004	<1,000	14	<10	<10	<20	NA	2,500	NA	NA	NA	NA	NA	9.45	6.07	3.38	NA
MW-3	05/25/2004	3,900	<10	66	23	470	NA	140	NA	NA	NA	NA	NA	9.45	14.63	-5.18	NA
MW-3	09/22/2004	<10,000	830	<100	290	450	NA	28,000	<400	<400	<400	13,000	<10,000	9.45	4.86	4.59	NA
MW-3	12/22/2004	94	<0.50	<0.50	<0.50	<1.0	NA	84	NA	NA	NA	NA	NA	9.45	6.93	2.52	NA
MW-3	02/23/2005	<50 i	<0.50	<0.50	<0.50	<1.0	NA	85	NA	NA	NA	NA	NA	9.45	5.68	3.77	NA
MW-3	06/27/2005	<2,500	96	<25	29	<50	NA	6,100	NA	NA	NA	NA	NA	9.45	4.80	4.65	NA
MW-3	08/31/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	300	<2.0	<2.0	<2.0	700	<50	8.33	5.07	3.26	NA
MW-3	12/14/2005	647	6.16	2.37	1.88	<0.500	NA	303 j	NA	NA	NA	NA	NA	8.33	5.65	2.68	NA
MW-3	03/08/2006	901	20.8	<0.500	5.55	0.980	NA	313	NA	NA	NA	1,660	NA	8.33	5.57	2.76	NA
MW-3	06/14/2006	1,240	61.0	<0.500	11.0	0.730	NA	680	NA	NA	NA	5,660	NA	8.33	5.68	2.65	NA
MW-3	09/27/2006	555	1.70	<0.500	<0.500	<0.500	NA	24.5	<0.500	<0.500	<0.500	1,370	<50.0	8.33	6.11	2.22	NA
MW-3	11/30/2006	990	32	<2.5	8.2	<5.0	NA	590	NA	NA	NA	13,000	NA	8.33	6.09	2.24	NA
MW-3	03/06/2007	2,900 k	57 k	<10 k	16 k	<10 k	NA	1,700 k	NA	NA	NA	46,000	NA	8.33	4.20	4.13	NA
MW-3	06/11/2007	1,900	110	<50	28 l	<50	NA	1,100	NA	NA	NA	42,000	NA	8.33	5.19	3.14	NA
MW-3	09/26/2007	<50 m	2.0	<1.0	0.38 l	<1.0	NA	11	<2.0	<2.0	<2.0	920	<100	8.33	5.54	2.79	NA
MW-3	12/28/2007	84 m	15	<1.0	0.52 l	<1.0	NA	91	NA	NA	NA	4,400	NA	8.33	4.68	3.65	NA
MW-3	03/31/2008	140	3.9	<1.0	<1.0	<1.0	NA	14	NA	NA	NA	1,600	NA	8.33	5.06	3.27	NA
MW-3	06/23/2008	180	<1.0	<2.0	<2.0	<2.0	NA	<2.0	NA	NA	NA	4,500	NA	8.33	5.00	3.33	NA
MW-3	09/22/2008	3,300	29	<10	<10	<10	NA	150	<20	<20	<20	52,000	<1,000	8.33	5.66	2.67	NA
MW-3	12/16/2008	NA	<25	<50	<50	<50	NA	59	NA	NA	NA	11,000	NA	8.33	5.50	2.83	NA
MW-3	02/27/2009	240	2.3	<2.0	<2.0	<2.0	NA	17	NA	NA	NA	1,800	NA	8.33	4.08	4.25	NA
MW-3	06/11/2009	400	3.8	<5.0	<5.0	<5.0	NA	18	NA	NA	NA	5,800	NA	8.33	5.30	3.03	NA

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Well ID	Date	TPPH (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3	09/23/2009	250	24	<2.0	<2.0	<2.0	NA	37	<4.0	<4.0	<4.0	7,700	<200	8.33	5.60	2.73	NA
MW-4	09/25/2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.88	7.64	2.24	NA
MW-4	12/15/2000	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	NA	NA	NA	NA	NA	9.88	7.55	2.33	NA
MW-4	03/09/2001	<50.0	<0.500	0.730	<0.500	0.529	3.16	NA	NA	NA	NA	NA	NA	9.88	7.04	2.84	NA
MW-4	06/27/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.76	2.12	NA
MW-4	09/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.69	2.19	NA
MW-4	12/31/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.08	2.80	NA
MW-4	03/14/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	7.57	2.31	NA
MW-4	06/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.50	1.38	NA
MW-4	09/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.22	1.66	NA
MW-4	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.08	1.80	NA
MW-4	03/20/2003 g	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	NA	NA	NA	9.88	7.92	1.96	NA
MW-4	06/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	<5.0	NA	NA	NA	NA	NA	9.88	8.18	1.70	NA
MW-4	09/22/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	16	NA	NA	NA	NA	NA	9.88	8.28	1.60	NA
MW-4	12/03/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	15	NA	NA	NA	NA	NA	9.88	8.44	1.44	NA
MW-4	03/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	15	NA	NA	NA	NA	NA	9.88	7.52	2.36	NA
MW-4	05/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	NA	NA	NA	NA	NA	9.88	8.30	1.58	NA
MW-4	09/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	<2.0	<2.0	<2.0	<5.0	<50	9.88	7.72	2.16	NA
MW-4	12/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	NA	NA	NA	NA	NA	9.88	7.32	2.56	NA
MW-4	02/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	18	NA	NA	NA	NA	NA	9.88	6.95	2.93	NA
MW-4	06/27/2005	55	<0.50	<0.50	<0.50	<1.0	NA	14	NA	NA	NA	NA	NA	9.88	7.48	2.40	NA
MW-4	08/31/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	15	<2.0	<2.0	<2.0	11	<50	9.88	7.53	2.35	NA
MW-4	12/14/2005	<50.0	<0.500	2.04	<0.500	<0.500	NA	10.1	NA	NA	NA	NA	NA	9.88	7.54	2.34	NA
MW-4	03/08/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	5.73	NA	NA	NA	NA	NA	9.88	6.19	3.69	NA
MW-4	06/14/2006	<50.0	<0.500	0.590	<0.500	<0.500	NA	14.0	NA	NA	NA	NA	NA	9.88	7.63	2.25	NA
MW-4	09/27/2006	426	<0.500	<0.500	<0.500	<0.500	NA	16.5	<0.500	<0.500	<0.500	<10.0	<50.0	9.88	7.87	2.01	NA
MW-4	11/30/2006	<50	<0.50	<0.50	<0.50	<1.0	NA	16	NA	NA	NA	NA	NA	9.88	7.81	2.07	NA
MW-4	03/06/2007	<50 k	<0.50 k	<1.0 k	<0.50 k	<1.0 k	NA	17 k	NA	NA	NA	NA	NA	9.88	7.10	2.78	NA
MW-4	06/11/2007	<50	<0.50	<1.0	<1.0	<1.0	NA	22	NA	NA	NA	NA	NA	9.88	7.68	2.20	NA

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MW-4	09/26/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	17	<2.0	<2.0	<2.0	<10	<100	9.88	7.80	2.08	NA
MW-4	12/28/2007	59 m	<0.50	<1.0	<1.0	<1.0	NA	20	NA	NA	NA	NA	NA	9.88	7.19	2.69	NA
MW-4	03/31/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	15	NA	NA	NA	NA	NA	9.88	6.46	3.42	NA
MW-4	06/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	18	NA	NA	NA	NA	NA	9.88	7.34	2.54	NA
MW-4	09/22/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	20	<2.0	<2.0	<2.0	<10	<100	9.88	7.68	2.20	NA
MW-4	12/16/2008	NA	<0.50	<1.0	<1.0	<1.0	NA	19	NA	NA	NA	NA	NA	9.88	7.55	2.33	NA
MW-4	02/27/2009	65	<0.50	<1.0	<1.0	<1.0	NA	27	NA	NA	NA	NA	NA	9.88	6.73	3.15	NA
MW-4	06/11/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	25	NA	NA	NA	NA	NA	9.88	7.68	2.20	NA
MW-4	09/23/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	23	<2.0	<2.0	<2.0	<10	<100	9.88	7.66	2.22	NA

MW-5	06/18/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.36	NA	NA
MW-5	06/25/2002	<10,000	<100	<100	<100	<100	NA	60,000	NA	NA	NA	NA	NA	NA	8.30	NA	NA
MW-5	09/19/2002	<2,000	<20	<20	<20	<20	NA	7,200	NA	NA	NA	NA	NA	10.03	8.44	1.59	NA
MW-5	12/12/2002	<5,000	<50	<50	<50	<50	NA	33,000	NA	NA	NA	NA	NA	10.03	8.49	1.54	NA
MW-5	03/20/2003 g	12,000	<50	<50	<50	<50	15,000	NA	NA	NA	NA	NA	NA	10.03	8.23	1.80	NA
MW-5	06/23/2003	<1,000	<10	<10	<10	<20	NA	1,700	NA	NA	NA	NA	NA	10.03	16.70	-6.67	NA
MW-5	09/22/2003	<2,500	<25	<25	<25	<50	NA	4,400	NA	NA	NA	NA	NA	10.03	16.70	-6.67	NA
MW-5	12/03/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	70	NA	NA	NA	NA	NA	10.03	16.79	-6.76	NA
MW-5	03/18/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	43	NA	NA	NA	NA	NA	10.03	16.78	-6.75	NA
MW-5	05/25/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	30	NA	NA	NA	NA	NA	10.03	13.02	-2.99	NA
MW-5	09/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	20	<2.0	<2.0	<2.0	83	<50	10.03	5.91	4.12	NA
MW-5	12/22/2004	<50	<0.50	<0.50	<0.50	<1.0	NA	67	NA	NA	NA	NA	NA	10.03	5.72	4.31	NA
MW-5	02/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	120	NA	NA	NA	NA	NA	10.03	4.41	5.62	NA
MW-5	06/27/2005	56	<0.50	<0.50	<0.50	<1.0	NA	46	NA	NA	NA	NA	NA	10.03	5.98	4.05	NA
MW-5	08/31/2005	<1,000	<10	<10	<10	<20	NA	69	<40	<40	<40	2,400	<1,000	9.03	6.60	2.43	NA
MW-5	12/14/2005	302	<0.500	2.02	<0.500	<0.500	NA	34.0	NA	NA	NA	NA	NA	9.03	5.00	4.03	NA
MW-5	03/08/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	34.6	NA	NA	NA	677	NA	9.03	4.18	4.85	NA
MW-5	06/14/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	30.4	NA	NA	NA	4,380	NA	9.03	6.10	2.93	NA
MW-5	09/27/2006	528	<0.500	<0.500	<0.500	<0.500	NA	28.6	<0.500	<0.500	<0.500	384	<50.0	9.03	6.94	2.09	NA
MW-5	11/30/2006	<50	<0.50	<0.50	<0.50	<1.0	NA	7.3	NA	NA	NA	380	NA	9.03	6.70	2.33	NA

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MW-5	03/06/2007	76 k	<0.50 k	<1.0 k	<0.50 k	<1.0 k	NA	20 k	NA	NA	NA	1,200 k	NA	9.03	4.65	4.38	NA
MW-5	06/11/2007	<50	0.35 l	0.30 l	0.47 l	3.79 l	NA	21	NA	NA	NA	38	NA	9.03	6.28	2.75	NA
MW-5	09/26/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	27	<2.0	<2.0	<2.0	2,400	<100	9.03	7.71	1.32	NA
MW-5	12/28/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	6.5	NA	NA	NA	190	NA	9.03	5.86	3.17	NA
MW-5	03/31/2008	60	<0.50	<1.0	<1.0	<1.0	NA	15	NA	NA	NA	910	NA	9.03	6.29	2.74	NA
MW-5	06/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.7	NA	NA	NA	200	NA	9.03	6.45	2.58	NA
MW-5	09/22/2008	160	<0.50	<1.0	<1.0	<1.0	NA	14	<2.0	<2.0	<2.0	3,000	<100	9.03	6.99	2.04	NA
MW-5	12/16/2008	NA	<0.50	<1.0	<1.0	<1.0	NA	4.4	NA	NA	NA	880	NA	9.03	6.34	2.69	NA
MW-5	02/27/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	4.7	NA	NA	NA	69	NA	9.03	4.35	4.68	NA
MW-5	06/11/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	4.9	NA	NA	NA	20	NA	9.03	6.70	2.33	NA
MW-5	09/23/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	25	<2.0	<2.0	<2.0	1,300	<100	9.03	7.04	1.99	NA
C-1	09/19/2001	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	1.44	NA	NA
C-1	03/29/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	2.59	NA	NA
C-1	06/25/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	3.72	NA	NA
C-1	09/19/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	3.08	NA	NA
C-1	12/12/2002	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	NA	NA	NA	NA	NA	NA	0.64	NA	NA
C-1	03/20/2003 g	<50	<0.50	<0.50	<0.50	<0.50	<5.0	NA	NA	NA	NA	NA	NA	NA	4.61	NA	NA
SD-1	09/19/2001	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	03/29/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	06/25/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	09/19/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	12/12/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-1	03/20/2003	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	09/19/2001	Unable to sample		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	03/29/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	06/25/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	09/19/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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SD-2	12/12/2002	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SD-2	03/20/2003	Dry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BW-A	06/22/1999	318	<0.50	<0.50	0.590	1.48	4,470	NA	NA	NA	NA	NA	NA	NA	4.71	NA	1.1
BW-A	06/25/2002	<500	<5.0	<5.0	<5.0	18	NA	3,100	NA	NA	NA	NA	NA	NA	5.14	NA	NA
BW-A	09/19/2002	<200	<2.0	<2.0	<2.0	<2.0	NA	<20	NA	NA	NA	NA	NA	NA	7.19	NA	NA
BW-A	12/12/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	2,900	NA	NA	NA	NA	NA	NA	6.40	NA	NA
BW-A	03/20/2003 g	<2,500	<25	<25	<25	<25	<250	NA	NA	NA	NA	NA	NA	NA	5.36	NA	NA
BW-A	06/23/2003	<1,000	<10	<10	<10	<20	NA	<100	NA	NA	NA	NA	NA	NA	10.27	NA	NA
BW-A	09/22/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.63	NA	NA	NA
BW-B	06/22/1999	<250	<2.5	<2.5	<2.5	<2.5	8,600	NA	NA	NA	NA	NA	NA	NA	5.90	NA	1.2
BW-B	06/27/2001	<5,000	<50	<50	<50	<50	NA	40,000	NA	NA	NA	NA	NA	NA	5.83	NA	NA
BW-B	12/31/2001	<2,000	<20	<20	<20	<20	NA	9,200	NA	NA	NA	NA	NA	NA	4.19	NA	NA
BW-B	03/14/2002	<2,000	<20	<20	<20	<20	NA	9,400	NA	NA	NA	NA	NA	NA	5.24	NA	NA
BW-B	06/25/2002	<2,000	<20	<20	<20	<20	NA	6,600	NA	NA	NA	NA	NA	NA	6.19	NA	NA
BW-B	09/19/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	<50	NA	NA	NA	NA	NA	NA	8.46	NA	NA
BW-B	12/12/2002	<500	<5.0	<5.0	<5.0	<5.0	NA	1,700	NA	NA	NA	NA	NA	NA	7.46	NA	NA
BW-B	03/20/2003 g	170	<1.0	<1.0	<1.0	<1.0	190	NA	NA	NA	NA	NA	NA	NA	6.23	NA	NA
BW-B	06/23/2003	<50	<0.50	<0.50	<0.50	<1.0	NA	43	NA	NA	NA	NA	NA	NA	9.95	NA	NA
BW-B	09/22/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.32	NA	NA	NA
BW-C	06/22/1999	<50	<0.50	<0.50	<0.50	0.98	11,000	NA	NA	NA	NA	NA	NA	NA	5.91	NA	1.6
BW-C	06/25/2002	<5,000	<50	<50	<50	<50	NA	20,000	NA	NA	NA	NA	NA	NA	6.49	NA	NA
BW-C	09/19/2002	<1,000	<10	<10	<10	<10	NA	400	NA	NA	NA	NA	NA	NA	8.52	NA	NA
BW-C	12/12/2002	<2,000	<20	<20	<20	<20	NA	8,000	NA	NA	NA	NA	NA	NA	7.57	NA	NA
BW-C	03/20/2003 g	270	<1.0	<1.0	<1.0	<1.0	250	NA	NA	NA	NA	NA	NA	NA	6.48	NA	NA
BW-C	06/23/2003	<1,000	<10	<10	<10	<20	NA	170	NA	NA	NA	NA	NA	NA	11.48	NA	NA
BW-C	09/22/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.81	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
BW-D	06/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2,190	NA	NA	NA	NA	NA	NA	NA	4.78	NA	1.4
BW-D	06/25/2002	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BW-D	07/02/2002	<1,000	23	<10	<10	<10	NA	<100	NA	NA	NA	NA	NA	NA	6.36	NA	NA
BW-D	09/19/2002	<250	<2.5	<2.5	<2.5	<2.5	NA	<25	NA	NA	NA	NA	NA	NA	7.25	NA	NA
BW-D	12/12/2002	<5,000	<50	<50	<50	<50	NA	16,000	NA	NA	NA	NA	NA	NA	6.21	NA	NA
BW-D	03/20/2003 g	71	<0.50	<0.50	<0.50	<0.50	55	NA	NA	NA	NA	NA	NA	NA	5.23	NA	NA
BW-D	06/23/2003	<1,000	<10	<10	<10	<20	NA	<100	NA	NA	NA	NA	NA	NA	10.25	NA	NA
BW-D	09/22/2003	<100	<1.0	<1.0	<1.0	<2.0	NA	120	NA	NA	NA	NA	NA	NA	10.18	NA	NA
BW-D	12/03/2003	<1,300	110	<13	<13	29	NA	560	NA	NA	NA	NA	NA	NA	10.20	NA	NA
BW-D	03/18/2004	<50	0.67	<0.50	<0.50	<1.0	NA	12	NA	NA	NA	NA	NA	NA	3.42	NA	NA
BW-D	05/25/2004	<50	1.4	0.96	<0.50	<1.0	NA	1.7	NA	NA	NA	NA	NA	NA	8.83	NA	NA
BW-D	09/22/2004	<100	6.9	<1.0	2.1	4.2	NA	210	NA	NA	NA	NA	NA	NA	2.75	NA	NA
BW-D	12/22/2004	61	2.1	2.9	<0.50	3.6	NA	5.4	NA	NA	NA	NA	NA	NA	3.67	NA	NA
BW-D	02/23/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	1.2	NA	NA	NA	NA	NA	NA	2.88	NA	NA
BW-D	06/27/2005	53	<0.50	<0.50	<0.50	<1.0	NA	1.8	NA	NA	NA	NA	NA	NA	3.70	NA	NA
BW-D	08/31/2005	<50	<0.50	<0.50	<0.50	<1.0	NA	1.4	NA	NA	NA	NA	NA	8.61	3.82	4.79	NA
BW-D	12/14/2005	<50.0	<0.500	2.78	<0.500	<0.500	NA	2.26	NA	NA	NA	NA	NA	8.61	3.59	5.02	NA
BW-D	03/08/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	2.23	NA	NA	NA	NA	NA	8.61	3.61	5.00	NA
BW-D	06/14/2006	<50.0	<0.500	<0.500	<0.500	<0.500	NA	18.1	NA	NA	NA	NA	NA	8.61	3.86	4.75	NA
BW-D	09/27/2006	410	<0.500	<0.500	<0.500	<0.500	NA	2.90	<0.500	<0.500	<0.500	78	<50.0	8.61	4.32	4.29	NA
BW-D	11/30/2006	<50	<0.50	<0.50	<0.50	<1.0	NA	1.3	NA	NA	NA	NA	NA	8.61	4.00	4.61	NA
BW-D	03/06/2007	<50 k	<0.50 k	<1.0 k	<0.50 k	<1.0 k	NA	1.4 k	NA	NA	NA	NA	NA	8.61	3.44	5.17	NA
BW-D	06/11/2007	<50	<0.50	<1.0	<1.0	<1.0	NA	0.95 l	NA	NA	NA	NA	NA	8.61	4.14	4.47	NA
BW-D	09/26/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	1.1	NA	NA	NA	NA	NA	8.61	4.22	4.39	NA
BW-D	12/28/2007	<50 m	<0.50	<1.0	<1.0	<1.0	NA	1.4	NA	NA	NA	NA	NA	8.61	3.55	5.06	NA
BW-D	03/31/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	2.3	NA	NA	NA	NA	NA	8.61	4.20	4.41	NA
BW-D	06/23/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.1	NA	NA	NA	NA	NA	8.61	4.01	4.60	NA
BW-D	09/22/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	<10	NA	8.61	4.21	4.40	NA
BW-D	12/16/2008	<50	<0.50	<1.0	<1.0	<1.0	NA	1.3	NA	NA	NA	NA	NA	8.61	3.69	4.92	NA
BW-D	02/27/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	<1.0	NA	NA	NA	NA	NA	8.61	3.14	5.47	NA

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
BW-D	06/11/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	1.5	NA	NA	NA	NA	NA	8.61	4.52	4.09	NA
BW-D	09/23/2009	<50	<0.50	<1.0	<1.0	<1.0	NA	1.1	NA	NA	NA	NA	NA	8.61	4.82	3.79	NA

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to June 27, 2001, analyzed by EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to June 27, 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

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ppm = Parts per million

ug/L = Parts per billion

MSL = Mean sea level

ft. = Feet

<n = Below detection limit

(D) = Duplicate sample

NA = Not applicable

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Well ID	Date	TPPH (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)	Ethanol (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
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Notes:

a = Pre-purge

b = Post purge

c = Lab confirmed MTBE by mistake. MTBE value at MW-1 should have been confirmed instead.

d = DO reading not taken.

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

f = The second highest MTBE hit was mistakenly confirmed. MTBE for MW-1 should have been confirmed.

g = On March 20, 2003, all analyses run by EPA Method 8015/8020.

h = Depth to top of pump; pump prevented depth to water measurement.

i = The concentration reported reflects individual or discrete unidentified peaks not matching a typical fuel pattern.

j = Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.

k = 1,1-Dichloroethene, a calibration check compound (CCC), was outside the 20%D method acceptance criteria in the CCV.

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

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

n = 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.

Ethanol analyzed by EPA Method 8260B.

Site surveyed September 21, 2000 by Virgil Chavez Land Surveying of Vallejo, CA.

C-1 is a canal sample location.

SD-1 and SD-2 are storm drains.

Wells MW-1 through MW-5 surveyed January 24 and June 19, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells MW-1, MW-3, MW-5, and BW-D surveyed on September 22, 2005 by Virgil Chavez Land Surveying of Vallejo, CA.

Unmonitored backfilled wells BW-A, BW-B, and BW-C surveyed on September 22, 2005 by Virgil Chavez Land Surveying of Vallejo, CA.

Table 3. Groundwater Chemical Analytical Data - Shell-branded Service Station Incident # 98995752, 540 Hegenberger Road, Oakland, California

Sample ID	Date	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE by EPA 8020M MTBE by EPA 8260B	
								←	→
(Concentrations in µg/L)									
SB-E-W1	8/29/00	<5000	353	<50.0	<50.0	<50.0	<50.0	13700	17900
SB-F-W1	8/29/00	<50.0	64.6	<0.500	<0.500	<0.500	<0.500	68.3	85.3
SB-G-W1	8/29/00	51100	5780	2080	2390	2980	14100	58400	76400

Abbreviations and Notes:

- TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
- TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015 with silica gel clean-up
- Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8020
- MTBE = Methyl tertiary butyl ether by EPA method 8020 and 8260B
- µg/L = Micrograms per liter
- <n = Below detection limit of n µg/L

Table 2. Ground Water Analytical Data - Shell Service Station, WIC# 204-5508-5900, 540 Hegenberger Road, Oakland, California

Sample ID	Date Sampled	TPHg	TPHd	Benzene	Toluene µg/L	Ethylbenzene	Xylenes	MTBE	TDS mg/L
SB-1	3/6/98	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	420
SB-2	3/6/98	3,400	---	190	880	81	460	9,400	---
SB-3	3/6/98	410	---	14	48	10	61	210	---
SB-4	3/6/98	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---
SB-5	3/6/98	200,000	---	11,000	36,000	3,200	19,000	1,300,000	---

Notes and Abbreviations:

µg/L = Micrograms per liter

mg/L = Milligrams per liter

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015







MTBE = Methyl tert-butyl ether by EPA Method 8020.

TDS = Total dissolved solids by EPA Method 160.2

<n = Below detection limit of n µg/L

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020

--- = Not analyzed

BORING LOG				Boring ID SB-1									
Client: Shell Oil Products Company		Project No: 240-0414		Phase		Task 006		Location 540 Hegenberger Road, Oakland		Surface Elev. NA ft,		Page 1 of 1	
Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments					
0	Ground Surface		ASPHALT				0						
			Gravelly Silty SAND with pieces of brick, cinders, debris, FILL.										
5			No Recovery.				5						
			Silty SAND; (SM); black; loose; wet; 10% clay, 20% silt, 60% sand, 10% gravel; no plasticity; moderate estimated permeability.	2.4				Water level @ 8 ft					
10			Silty CLAY; (CH); gray to black; soft; moist; 70% clay, 30% silt; medium to high plasticity; low estimated permeability.				10						
				<1.0				Bottom of boring @ 12 ft					
15							15						
20							20						

Driller Vironex	Drilling Started 3/6/98	Notes: Southwest corner of lot.
Logged By Maureen Feineman	Drilling Completed 3/6/98	
Water-Bearing Zones NA	Grout Type Portland Type I/II	

ATTACHMENT 6

BORING LOG

Client: **Shell Oil Products Company**

Project No: **240-0414**

Phase

Task **006**

Boring ID **SB-2**

Location **540 Hegenberger Road, Oakland**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface		ASPHALT				0	
			Compacted GRAVEL, FILL.					
5		◆	Sandy Silty CLAY (CL); black; soft; moist; 50% clay, 20% silt, 30% sand; medium plasticity; low estimated permeability.				5	
			Silty CLAY (CH); black; soft; moist; 70% clay, 30% silt; high plasticity; low estimated permeability.					
		◆		160.0				
10			Grey; 60% clay, 40% silt; medium to high plasticity.				10	
		◆						Water level @ 12 ft
15			Silty SAND (SM); grey; loose; wet; 20% silt, 80% fine sand; low plasticity; high estimated permeability.				15	
								Bottom of boring @ 16 ft
20							20	

Driller Vironex	Drilling Started 3/6/98	Notes: Approximately 20 feet west of USTs.
Logged By Maureen Feineman	Drilling Completed 3/6/98	
Water-Bearing Zones NA	Grout Type Portland Type I/II	

BOR 24414 4/13/98

BORING LOG

Client: **Shell Oil Products Company**

Project No: **240-0414**

Phase

Task **006**

Boring ID **SB-3**

Location **540 Hegenberger Road, Oakland**

Surface Elev. **NA ft,**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface		<u>ASPHALT</u>				0	
			<u>Gravelly Silty SAND, FILL.</u>					
5		◆	Silty SAND with Clay Clasts: (SM); grey to black; loose; moist; 15% clay, 15% silt, 65-70% sand, trace gravel; low plasticity; moderate estimated permeability.	37.0			5	
		◆	No clay clasts; wet; 20% silt, 80% fine sand.					Water @ 6 ft
10		◆					10	
		◆						Bottom of boring @ 12 ft
15				830.0			15	
20							20	

Driller **Vironex**

Drilling Started **3/6/98**

Notes: **Approximately 15 feet**

Logged By **Maureen Feineman**




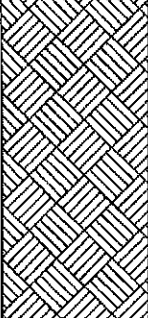
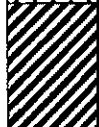
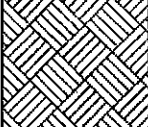
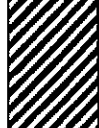

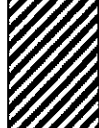

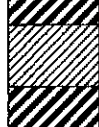
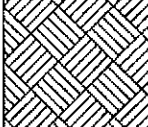

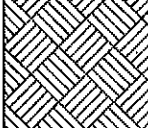
Drilling Completed **3/6/98**

south of USTs.

Water-Bearing Zones **NA**

Grout Type **Portland Type I/II**

BOR 24414 4/13/98

BORING LOG				Boring ID SB-4				
Client: Shell Oil Products Company				Location 540 Hegenberger Road, Oakland				
Project No: 240-0414		Phase	Task 006	Surface Elev. NA ft,		Page 1 of 1		
Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHlg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface		ASPHALT				0	
			Gravelly CLAY, FILL: brown to black; soft; dry; 60% clay, 5% silt, 10% sand, 25% gravel; low to medium plasticity; low to moderate estimated permeability.					
5			Silty CLAY; (CH); black; soft; moist; 70% clay, 30% silt; high plasticity; low estimated permeability.				5	
				<1.0				
10			Sandy Silty CLAY; (CL); black; soft; wet; 50% clay, 20% silt, 30% sand; low to medium plasticity; low estimated permeability.				10	Water level @ 10 ft
			Silty CLAY; (CH); grey; soft; moist; 60% clay, 40% silt; medium to high plasticity; low estimated permeability.				15	
15			Sandy Silty CLAY; (CL); black; soft; wet; 50% clay, 20% silt, 30% sand; low to medium plasticity; low estimated permeability.				15	
			Silty CLAY; (CH); grey; soft; moist; 60% clay, 40% silt; medium to high plasticity; low estimated permeability.				20	
20				<1.0			20	Bottom of boring @ 20 ft

Driller **Vironex**
 Logged By **Maureen Feineman**
 Water-Bearing Zones **NA**

Drilling Started **3/6/98**
 Drilling Completed **3/6/98**
 Grout Type **Portland Type I/II**

Notes: **South side of lot, approximately 15 feet east of building.**

BORING LOG

Client: **Shell Oil Products Company**

Project No: **240-0414**

Phase

Task **006**

Boring ID **SB-5**

Location **540 Hegenberger Road, Oakland**

Surface Elev. **NA ft,**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface						0	
			CONCRETE					
			Silty SAND, FILL: (SM); brown; loose; damp; 20% silt, 80% sand; low plasticity; moderate to high estimated permeability.					
			Silty CLAY, FILL: (CH); brown to black; soft; damp; 60% clay, 40% silt, high plasticity; low estimated permeability.					
5			Gravelly SAND, FILL: (SP); black; loose; damp; 10% silt, 70% sand, 20% gravel; low plasticity; high estimated permeability.				5	
			Silty SAND: (SM); black; loose; wet; 20% silt, 80% fine sand; low plasticity; moderate to high estimated permeability.	3,400				
			Silty CLAY: (CH); black; soft; moist; 70% clay, 30% silt; high plasticity; low estimated permeability.	100.0				Water level @ 8 ft
10			Silty SAND: (SM); black; loose; wet; 20% silt, 80% fine sand; low plasticity; moderate to high estimated permeability.				10	
								Bottom of boring @ 12 ft
15							15	
20							20	

Driller Vironex	Drilling Started 3/6/98	Notes: West side of lot, adjacent
Logged By Maureen Feineman	Drilling Completed 3/6/98	to planter.
Water-Bearing Zones NA	Grout Type Portland Type I/II	

BOR 24414 4/13/98

DRILLING LOG				Well ID MW-1	Boring ID SB-A			
Client: Equilon Enterprises LLC				Location 540 Hegenberger Road, Oakland				
Project No: 240-0414		Phase	Task 012	Surface Elev. NA ft.	Page 1 of 1			
Depth (feet)	Blow Count	Sample % Rec	Lithologic Description	TPHg (ppm)	Graphic Log	Well Construction Graphics	Depth (feet)	Well Construction Details
0	Ground Surface						0	T.O.C. Elev. NA
5	7 13 10/6"		Asphalt Sandy GRAVEL FILL: (FILL); brown; loose; dry to damp; 10% silt, 20% sand, 70% gravel; no plasticity; high estimated permeability. Gravelly SAND FILL: (FILL); green; loose; dry to damp; 10% silt, 50% sand, 40% gravel; no plasticity; high estimated permeability.				5	
10	4 8 10/6"		Silty CLAY: (CH); black; medium stiff; dry to damp; 70% clay, 30% silt; high plasticity; very low estimated permeability. Silty SAND: (SM); black; loose; dry to damp; 20% silt, 80% very fine sand with chunks of rock and slag; no plasticity; high estimated permeability.				10	Static water level @ 8.7 ft.
15	4 8 10/6"		moist.				15	Water encountered @ 14 ft.
20			Sandy, Clayey SILT: (ML); brown; soft; wet; 30% clay, 40% silt, 30% sand; low plasticity; moderate estimated permeability.				20	
25			Clayey SILT: (ML); grey; medium stiff; moist; 40% clay, 60% silt; medium plasticity; low to moderate estimated permeability.				25	Bottom of well and boring @ 25 ft.
30							30	

Driller Gregg Drilling	Development Yield NA	Bentonite Seal 7.5' to 9'
Logged By Maureen Feineman	Well Casing 2" Dia. 0' to 10'	Sand Pack 9' to 25'
Drilling Started 7/14/98	Casing Type Schedule 40 PVC	Sand Pack Type Monterey Sand #2-12
Drilling Completed 7/14/98	Well Screen 2" Dia. 10' to 25'	Static Water Level 8.70 ft Depth
Construction Completed 07/14/98	Screen Type Slotted Schedule 40 PVC	Date 7/15/98
Development Completed NA	Slot Size 0.010"	Notes: 10 feet west of car wash.
Water Bearing Zones NA	Drilling Mud NA	
	Grout Type Portland Type I/II	

WELL 24414 7/27/98

DRILLING LOG				Well ID	Boring ID	SB-B		
Client: Equilon Enterprises LLC				Location 540 Hegenberger Road, Oakland				
Project No: 240-0414		Phase	Task012	Surface Elev. NA ft.		Page 1 of 1		
Depth (feet)	Blow Count	Sample % Rec	Lithologic Description	TPHg (ppm)	Graphic Log	Well Construction Graphics	Depth (feet)	Well Construction Details
0	Ground Surface						0	T.O.C. Elev. NA
5	3 3 6/8"		Sandy SILT ; (ML); black; soft; moist; 10% clay, 75% silt, 15% fine sand; low plasticity; moderate estimated permeability.				5	Static water level @ 4.75 ft. Water encountered @ 5 ft.
10	3 5 9/8"		Clayey SILT ; (ML); black; medium stiff; wet; 40% clay, 60% silt; medium plasticity; low estimated permeability. grey; stiff.				10	
15	5 7 8/8"		grey to brown.				15	
20							20	Bottom of well and boring @ 20 ft.
25							25	
30							30	

Driller Gregg Drilling	Development Yield NA	Bentonite Seal 1.5' to 3'
Logged By Maureen Feineman	Well Casing 2" Dia. 0' to 5'	Sand Pack 3' to 20'
Drilling Started 7/15/98	Casing Type Schedule 40 PVC	Sand Pack Type Monterey Sand #2-12
Drilling Completed 7/15/98	Well Screen 2" Dia. 5' to 20'	Static Water Level 4.75 ft Depth
Construction Completed 07/15/98	Screen Type Slotted Schedule 40 PVC	Date 07/15/98
Development Completed NA	Slot Size 0.010"	Notes: Northern planter.
Water Bearing Zones NA	Drilling Mud NA	
	Grout Type Portland Type I/II	

WELL 24414 7/27/98

DRILLING LOG				Well ID	Boring ID	SB-C			
Client: Equilon Enterprises LLC				Location 540 Hegenberger Road, Oakland					
Project No: 240-0414		Phase		Task 012		Surface Elev. NA ft,		Page 1 of 1	
Depth (feet)	Blow Count	Sample	% Rec	Lithologic Description	TPHg (ppm)	Graphic Log	Well Construction Graphics	Depth (feet)	Well Construction Details
0	Ground Surface			Asphalt				0	T.O.C. Elev. NA
5				Gravelly SAND, FILL; (FILL); brown; loose; dry; 10% silt, 70% sand, 20% gravel; no plasticity; high estimated permeability.				5	
				Clayey SILT; (ML); dark grey; medium stiff; damp; 40% clay, 60% silt; medium plasticity; low estimated permeability.					
10	3 5 7/6"	X		Gravelly, Sandy SILT; (ML); black; medium stiff; wet; 10% clay, 40% silt, 20% sand, 30% gravel; low plasticity; moderate estimated permeability. brown; stiff; dry.				10	Static water level @ 6.4 ft.
				Clayey SILT; (ML); dark grey; stiff; moist; 40% clay, 60% silt; medium plasticity; moderate estimated permeability.					Water encountered @ 10 ft.
15	5 7 8/6"	X		wet.				15	
20				grey.				20	Bottom of well and boring @ 20 ft.
25								25	
30								30	

Driller Gregg Drilling	Development Yield NA	Bentonite Seal 2.5' to 4'
Logged By Maureen Feineman	Well Casing 2" Dia. 0' to 5'	Sand Pack 4' to 20'
Drilling Started 7/14/98	Casing Type Schedule 40 PVC	Sand Pack Type Monterey Sand #2-12
Drilling Completed 7/14/98	Well Screen 2" Dia. 5' to 20'	Static Water Level 6.40 ft Depth
Construction Completed 07/14/98	Screen Type Slotted Schedule 40 PVC	Date 07/15/98
Development Completed NA	Slot Size 0.010"	Notes: Adjacent to north end of western planter.
Water Bearing Zones NA	Drilling Mud NA	
	Grout Type Portland Type I/II	

WELL 24414 7/27/98

BORING LOG

Boring ID **SB-D**

Client: **Equilon Enterprises LLC**

Location **540 Hegenberger Road, Oakland**

Project No: **240-0414**

Phase

Task **012**

Surface Elev. **NA ft,**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth (feet)	Additional Comments
0	Ground Surface						0	
5	3 5 7/8"		<p>Asphalt</p> <p>Clayey SILT: (ML); brown to black; medium stiff; damp; 40% clay, 60% silt; medium plasticity; low to moderate estimated permeability.</p> <p>Gravelly, Sandy SILT: (ML); black; medium stiff; damp; 10% clay, 40% silt, 30% sand, 30% gravel; low plasticity; moderate estimated permeability.</p> <p>Clayey SILT: (ML); dark grey; medium stiff; damp; 40% clay, 60% silt; medium plasticity; low estimated permeability.</p>				5	
10	7 9 10/6"		stiff.				10	
15	3 7 9/6"		grey; wet				15	Water encountered @ 14 ft.
20							20	Bottom of boring @ 16 ft.
25							25	
30							30	

Driller **Gregg Drilling**

Logged By **Maureen Feineman**

Water-Bearing Zones **NA**

Drilling Started **7/14/98**

Drilling Completed **7/14/98**

Grout Type **Portland Type I/II**

Notes: **18 feet north of station building.**



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BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-E
JOB/SITE NAME	oak1540	DRILLING STARTED	29-Aug-00
LOCATION	540 Hegenburger Road	DRILLING COMPLETED	29-Aug-00
PROJECT NUMBER	242-0414	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	7"	SCREENED INTERVAL	NA
LOGGED BY	J. Loetterle	DEPTH TO WATER (First Encountered)	7.0 ft (29-Aug-00)
REVIEWED BY	S. Bork, RG# 5626	DEPTH TO WATER (Static)	NA
REMARKS	Hand Augered to 5'. Located on the south side of Edes Ave. approximately 35' from the southeast corner.		

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	1.5	
							FILL black; damp; 3% clay, 37% silt, 60% sand; no plasticity; moderate estimated permeability.	4.5	
	5 6 8	SB-E-5.5		5			Clayey SILT (ML) black; stiff; damp; 35% clay, 45% silt, 20% sand; medium plasticity; low estimated permeability. @ 7' - organics; fine sand.		
	7 8 8	SB-E-10.5		10			@ 10' - light brown; very stiff; damp; 40% clay, 50% silt, 10% sand; high plasticity; very low estimated permeability.		
	5 7 8	SB-E-15.5		15	ML		@ 15' - light brown/dark brown; stiff; wet; 35% clay, 50% silt, 15% sand; low estimated permeability.		
	8 10 12	SB-E-20.5		20			@ 20' - grey/brown; very stiff; wet; 25% clay, 40% silt, 35% sand; medium plasticity.		
		SB-E-25.5		25	SM		Silty SAND (SM) 5% clay, 30% silt, 65% sand; no plasticity; moderate estimated permeability.	25.0 26.5	 Portland Type I/II Bottom of Boring @ 26.5 ft

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BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>SB-F</u>
JOB/SITE NAME	<u>oak1540</u>	DRILLING STARTED	<u>29-Aug-00</u>
LOCATION	<u>540 Hegenburger Road</u>	DRILLING COMPLETED	<u>29-Aug-00</u>
PROJECT NUMBER	<u>242-0414</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hollow-stem auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>7"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>J. Loetterle</u>	DEPTH TO WATER (First Encountered)	<u>7.0 ft (29-Aug-00)</u> ▽
REVIEWED BY	<u>S. Bork, RG# 5626</u>	DEPTH TO WATER (Static)	<u>NA</u> ▽
REMARKS	<u>Hand Augered to 5'. Located on the south side of Edes Ave. approximately 120' from the southeast corner.</u>		

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	1.5	
				5			FILL black; damp; 3% clay, 37% silt, 60% sand; no plasticity; moderate estimated permeability; contains gravel sized pieces of brick, cobbles, and steel.	5.0	
	4 3 6	SB-F-5.50 SBP-F-6.0			SM		Silty SAND black; stiff; moist; 3% clay, 37% silt, 60% sand; no plasticity; moderate permeability; fine sand.	▽	← Portland Type III
	7 10 12	SB-F-10.5		10	ML		Clayey SILT greyish brown; very stiff; damp; 40% clay, 50% silt, 10% sand; high plasticity; low estimated permeability.	11.5	Bottom of Boring @ 11.5 ft

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BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>SB-G</u>
JOB/SITE NAME	<u>oak1540</u>	DRILLING STARTED	<u>29-Aug-00</u>
LOCATION	<u>540 Hegenburger Road</u>	DRILLING COMPLETED	<u>29-Aug-00</u>
PROJECT NUMBER	<u>242-0414</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hollow-stem auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>7"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>J. Loetterle</u>	DEPTH TO WATER (First Encountered)	<u>9.5 ft (29-Aug-00)</u> ▽
REVIEWED BY	<u>S. Bork, RG# 5826</u>	DEPTH TO WATER (Static)	<u>NA</u> ▽
REMARKS	<u>Hand Augered to 5'. Located on the south side of Edes Ave., adjacent to the car wash, four feet away from the curb.</u>		

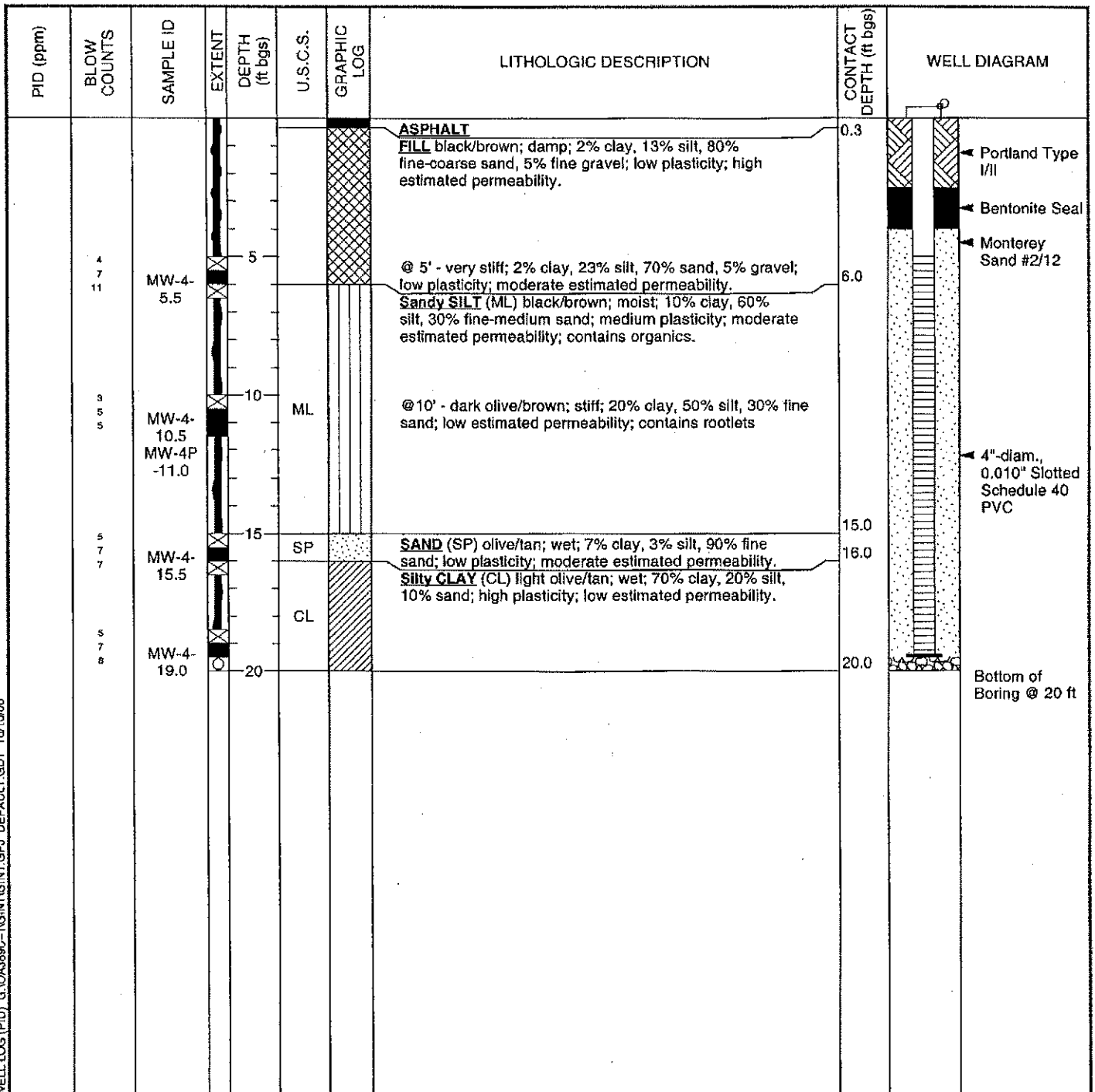
PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	1.5	
							FILL olive-grey; moist; 15% silt, 85% fine sand; no plasticity; high estimated permeability.		
	8 7 6	SB-G-5.5 SB-GP-6.0		5			@ 5' - stiff.	6.5	Portland Type I/II
					SM		Silty SAND (SM)		
	7 10 17	SB-G-10.5		10			@ 10' - olive-grey/brown; very stiff; moist; 3% clay, 37% silt, 60% fine sand; low plasticity; moderate estimated permeability.	11.5	Bottom of Boring @ 11.5 ft



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BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>MW-4</u>
JOB/SITE NAME	<u>oak1540</u>	DRILLING STARTED	<u>05-Sep-00</u>
LOCATION	<u>540 Hegenburger Road</u>	DRILLING COMPLETED	<u>05-Sep-00</u>
PROJECT NUMBER	<u>242-0414</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hollow-stem auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>10"</u>	SCREENED INTERVAL	<u>5 to 19.4 ft bgs</u>
LOGGED BY	<u>J. Loetterle</u>	DEPTH TO WATER (First Encountered)	<u>NA</u>
REVIEWED BY	<u>S. Bork, RG# 5626</u>	DEPTH TO WATER (Static)	<u>NA</u>
REMARKS	<u>Hand augered to 5 fbg. Located on the east side of Edes Ave., approximately 63 feet from the corner of Edes Ave. and Enterprise</u>		



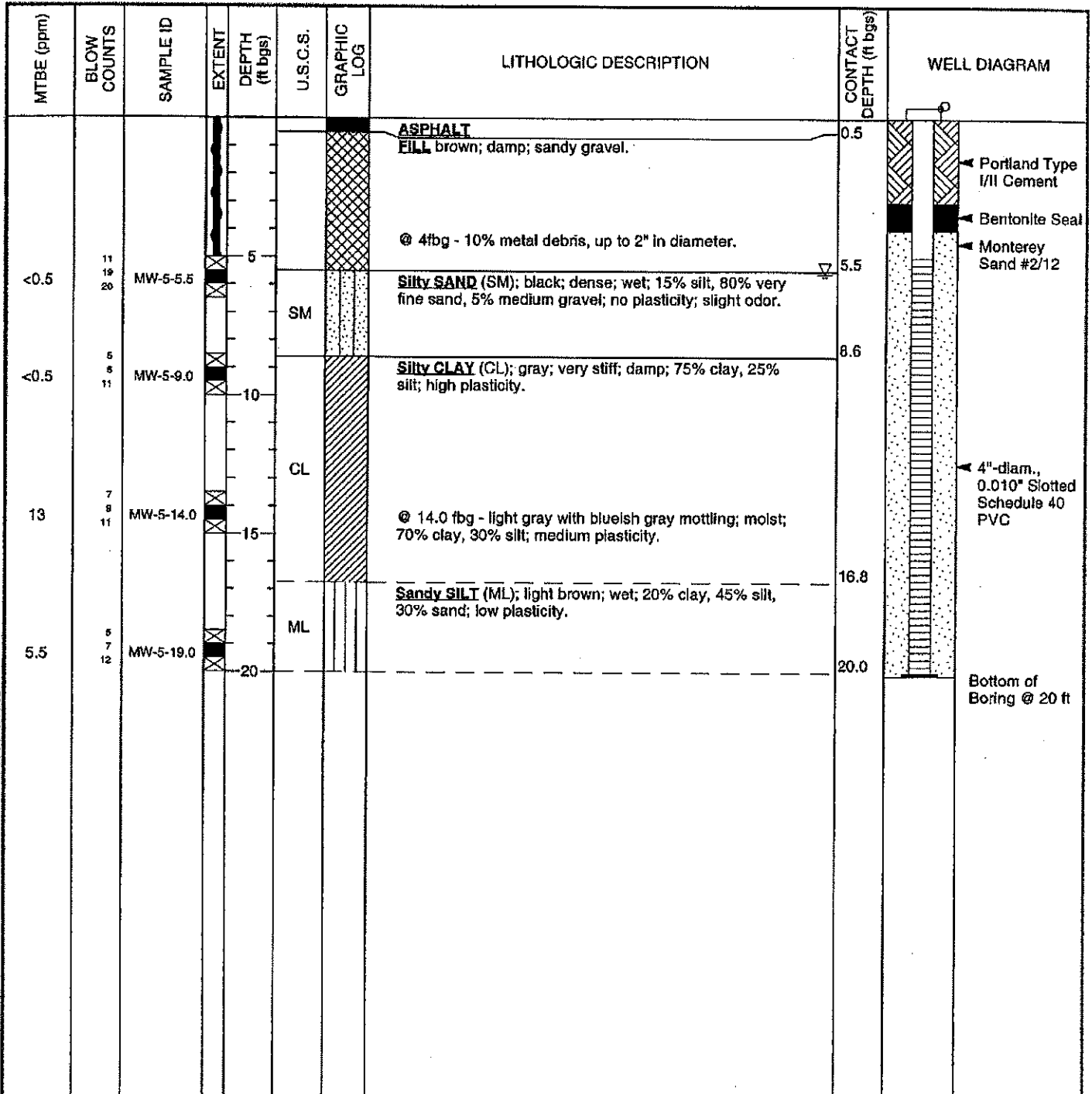
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BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	MW-5
JOB/SITE NAME	oak1540	DRILLING STARTED	07-Jun-02
LOCATION	540 Hegenberger Road, Oakland	DRILLING COMPLETED	07-Jun-02
PROJECT NUMBER	244-0414	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	10.47 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	10.03 ft above msl
BORING DIAMETER	10"	SCREENED INTERVAL	5 to 20 ft bgs
LOGGED BY	J. Gerke	DEPTH TO WATER (First Encountered)	5.6 ft (07-Jun-02)
REVIEWED BY	M. Derby, PE# 55475	DEPTH TO WATER (Static)	NA
REMARKS	Hand Augered to 5'		



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