

Transmittal

Date:	June 10, 2016	Reference No.:	240724
To:	Anne Jurek Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577		
Subject:	Shell-branded Service Station, 8999 San Ramon R	oad, Dublin, Ca	lifornia

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1	Closure Request				
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Remarks:

If you have any questions regarding the contents of this document, please call the GHD project manager Peter Schaefer at (510) 420-3319 or the Shell senior program manager Deborah Pryor at (323) 291-9595.

Copy to: Deborah Pryor, Shell Oil Products US

Colleen Winey, Zone 7 Water Agency

Carl Cox, C and J Cox Corporation (property owner)

Signed: Peter Scha

Completed by: Peter Schaefer

[Please Print]

Filing: Correspondence File



Ms. Anne Jurek Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 Shell Oil Products US Soil and Groundwater Focus Delivery Group 20945 S. Wilmington Avenue Carson, CA 90810 Tel (323) 291 9595 Fax (323) 315 4188 Email deborah.pryor@shell.com Internet http://www.shell.com

June 9, 2016

Re: 8999 San Ramon Road, Dublin, California PlaNet Site ID 10007871 PlaNet Project ID 33028 ACEH Case No. RO0002744

Dear Ms. Jurek:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (323) 291-9595 with any questions or concerns.

Sincerely, Shell Oil Products US

Debuck R. Lyn

Deborah R. Pryor Senior Program Manager



Closure Request

Shell-branded Service Station 8999 San Ramon Road Dublin, California

PlamNet Site ID10007871PlamNet Project ID33028Agency No.RO0002744

Shell Oil Products US

5900 Hollis Street Suite A Emeryville California 94608 USA (Project No) 240724 | (Phase No) 15 | (Task No) 10 | Report No 18 | (Date) June 10, 2016

Executive Summary

This report provides an evaluation of site data against the State Water Resources Control Board's (SWRCB's) Low-Threat Underground Storage Tank Case Closure Policy (the Policy).

As of the most recent groundwater sampling event in March 2016 performed by AECOM, no benzene, toluene, ethylbenzene, or total xylenes were detected in site wells. During the event, MTBE in groundwater (up to 210 μ g/L) exceeded ESLs in six intermediate and deeper wells. The highest MTBE concentration was in deeper well MW-5C.

CRA's 2014 well survey identified a domestic well 2,000 feet down gradient south of the site and an irrigation well 2,700 feet down gradient south of the site. No other potential receptors were identified.

In 2014, CRA used a groundwater transport model to evaluate whether the two water producing wells down gradient from the site could potentially be impacted by residual soil and groundwater impacts from the site, principally by MTBE detected in groundwater samples collected from deeper wells. Based on CRA's groundwater transport model, it appears unlikely that groundwater pumped from these wells would be affected by residual MTBE in soil and groundwater at the subject site; and therefore, there is no human health risk due to human consumption of groundwater pumped from known water-producing wells located down gradient from the site.

The site has been adequately assessed and data demonstrates that site conditions meet the SWRCB Policy general, petroleum vapor intrusion to indoor air, and direct exposure and outdoor air criteria, but do not meet media-specific groundwater criteria.

While site conditions do not meet Policy criteria for groundwater because the MTBE plume is not delineated in deeper groundwater down gradient from the site, this site meets the majority of Policy Class 4 media-specific groundwater criteria and should be closed because:

- Residual MTBE impacts are minimal,
- The source has been removed, and the secondary source is diminishing, as demonstrated by declining MTBE concentrations in the source area and in shallow and intermediate wells, and
- A groundwater transport model has demonstrated that the closest water-supply well will not be impacted at MTBE concentrations exceeding the RWQCB ESL within 100 years.
- The groundwater transport model constrains the length of the plume exceeding WQOs to less than 1000 feet.

Therefore, GHD concludes that the residual petroleum and fuel oxygenate impacts at this site pose very little or no risk to human health or the environment and we request case closure. GHD requests that ACEH suspend the groundwater monitoring program requirement during the closure review.

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1. Introduction

GHD Services Inc. (GHD) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) for the Shell-branded Service Station located at 8999 San Ramon Road, Dublin, California. This report provides an evaluation of site data against the State Water Resources Control Board's (SWRCB's) Low-Threat Underground Storage Tank Case Closure Policy (the Policy).

2. Site Background

2.1 Site Description

The site is an operating Shell branded service station located at the southeastern corner of San Ramon Road and Alcosta Boulevard in Dublin, California (Figure 1). The site layout includes a kiosk, store, three dispenser islands, four fuel underground storage tanks (USTs), and a car wash, (Figure 2).

A summary of previous work performed at the site and additional background information is presented in Appendix A.

3. Evaluation against the Policy

The site has been adequately assessed and data demonstrates that site conditions meet the SWRCB Policy general, petroleum vapor intrusion to indoor air, and direct exposure and outdoor air criteria, but do not meet media-specific groundwater criteria. All criteria are addressed below.

3.1 General Criteria

3.1.1 Unauthorized Release is Located within the Area of a Public Water System

The site and surrounding area are located within the Dublin San Ramon Services District public water system service area.

3.1.2 Unauthorized Release Consists Only of Petroleum

The site is a Shell-branded Service Station. Soil and groundwater impacts identified in site investigations since 2004 consist only of petroleum hydrocarbons and fuel additives.

3.1.3 The Unauthorized ("Primary") Release from the UST System Has Been Stopped

During station upgrades in July through September 2004, dispensers and product lines were replaced, and excavation was performed in the vicinity of the dispensers and piping after separate-phase hydrocarbons (SPHs) were observed in a shallow excavation.

3.1.4 Free Product Has Been Removed to the Maximum Extent Practicable

SPHs have not been observed in wells at the site. During the 2004 dispenser and piping replacement, SPHs were observed beneath geo-textile fabric near sample location P-6- 5.0, at the northeastern-most corner of the original fuel piping layout. Approximately 225 tons of soil from this area was subsequently excavated for off-site disposal. Soil sampling locations from the 2004 station renovation are shown in Appendix B.

3.1.5 A Conceptual Site Model (CSM) That Assessed the Nature, Extent, and Mobility of the Release Has Been Developed

Conestoga-Rovers & Associates' (CRA's) September 26, 2013 Updated Site Conceptual Model and subsequent investigation reports constitute a complete CSM for the site.

3.1.6 The Secondary Source Has Been Removed to the Extent Practicable

As stated above, approximately 225 tons of soil from the area of the original dispenser and piping layout were excavated for off-site disposal.

In March 2006, Delta conducted a groundwater extraction and dual-phase extraction (DPE) pilot test. Based on pilot testing results, Delta concluded that DPE was not a viable remediation option for the site.

No benzene, toluene, ethylbenzene, or total xylenes (BTEX) were detected in any site wells and no methyl-tertiary-butyl ether (MTBE) was detected above San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) in shallow wells during the first quarter 2016 groundwater monitoring event. Source area MTBE concentrations are decreasing and no additional secondary source removal is warranted.

3.1.7 Soil and Groundwater have been tested for MTBE

Soil samples collected since July 2004 (Table 1) and groundwater samples collected since May 2005 (Tables 2 and 3) has been analyzed for MTBE. MTBE was removed from gasoline sold in California in December 2003. Historical soil and groundwater sampling locations are presented on Figure 2 and in Appendix B.

3.1.8 Nuisance as Defined by Water Code Section 13050 Does Not Exist

Site conditions do not interfere with enjoyment of life or property, affect an entire community or neighborhood, or present a nuisance during or as a result of the treatment or disposal of wastes.

3.2 Media-Specific Criteria

3.2.1 Groundwater

The site does not meet Policy media-specific groundwater criteria because the MTBE plume is not defined in the intermediate and deeper zones down gradient. However, groundwater fate and transport modeling presented in CRA's March 4, 2014 Updated Well Survey and Groundwater Modeling Report, which was approved in Alameda County Environmental Health's (ACEH's)

March 24, 2014 letter, predicts the plume length above WQOs to be less than 1000 feet. The site meets the majority of Class 4 requirements as discussed below.

The contaminant plume that exceeds water quality objectives is less than 1,000 feet in length. MTBE in intermediate groundwater is currently defined horizontally to the east and southeast to below the applicable ESL by wells MW-11B and MW 14B. MTBE is not defined down gradient from MW-13B. The horizontal extent of MTBE in deep groundwater is not currently defined down gradient from wells MW-13C or MW-14C. The distance from the source area to the furthest down-gradient monitor well (MW-13C) is approximately 255 feet. Though the down gradient extent of the plume in the intermediate and deep groundwater zones is unknown, modeling results constrain the MTBE plume to less than 1000 feet as discussed below.

There is no free product. SPHs have not been observed in wells at the site. During the 2004 dispenser and piping replacement, SPHs were observed beneath geo-textile fabric near sample location P-6-5.0, at the northeastern-most corner of the original fuel piping layout.

The nearest existing water supply well is greater than 1000 feet from the defined plume boundary. In 2014, CRA reviewed records for water-producing wells in the vicinity of the site and identified a domestic well approximately 2,000 feet down gradient south of the site and irrigation well approximately 2,700 feet down gradient south of the site. Based on CRA's 2014 groundwater transport model, which assumed a continuous source of 140 micrograms per liter (µg/L) MTBE (the primary constituent of concern [COC]) from the deeper down-gradient site wells, the nearest downgradient receptor will not be impacted with MTBE concentrations exceeding the ESL in the next 100 years. While MTBE concentrations have increased in the deeper down-gradient wells to 210 μ g/L, a sensitivity analysis conducted as part of the model using a continuous source of $280 \mu g/L$ from the deeper down-gradient wells conservatively predicted that the MTBE plume exceeding water quality objectives (WQOs) would be 775 feet long after 100 years. Since the nearest potential receptor well is 2,000 feet down-gradient, the receptor well will likely be more than 1,000 feet from the plume boundary for at least the next 100 years. The groundwater transport model assumes there will be a continuous source of MTBE over the 100 year time frame of the model. Given the significant reduction of MTBE at the site, it is highly unlikely that the source concentrations used in the model would stay the same over 100 years. In addition, the model did not take into account bioattenuation of the MTBE plume. These assumptions of the model make the predicted plume length a highly conservative estimate and it is likely that the MTBE plume will degrade before it reaches the potential receptor well.

The closest surface water body, Big Canyon Creek, is approximately 500 feet west (cross-gradient from the remaining MTBE plume in the intermediate and deeper zones, see Figures 3 through 5; groundwater data from March 17, 2016 is taken from AECOM's May 2, 2016 First Semiannual 2016 Groundwater Monitoring Report) from the site. While the creek is less than 1000 feet from the plume boundary, it is not likely that groundwater impacts from the site will impact Big Canyon Creek due to the depth to groundwater and its cross-gradient location.

The dissolved concentration of benzene is less than 1000 μ g/L, and the dissolved concentration of MTBE is less than 1,000 μ g/L. As stated above, no BTEX were detected in site wells during the first quarter 2016 groundwater monitoring event. Since groundwater monitoring began in May 2005, benzene has only been detected 12 times, with the maximum (7.7 μ g/L in well MW-8) during the January 2013 groundwater sampling event.

MTBE was not detected in shallow wells during the March 2016 groundwater monitoring event and has been below the RWQCB ESL since November 2011. The maximum MTBE concentration in the intermediate groundwater zone is 26 μ g/L in MW-13B. The maximum deep groundwater concentration is 210 μ g/L in MW-5C.

Although all of the criteria of Class 4 are not met, the contaminant plume poses a low threat to human health and safety and to the environment. In 2014, CRA reviewed records for water-producing wells in the vicinity of the site and identified a domestic well 2,000 feet down gradient south of the site and an irrigation well 2,700 feet down gradient south of the site. No other potential receptors have been identified.

CRA then used a groundwater transport model to evaluate whether the two water producing wells could potentially be impacted by residual soil and groundwater impacts at the site, principally by MTBE detected in groundwater samples collected from deeper wells. The groundwater transport model assumed a continuous source of MTBE, which is a conservative assumption since the source has been removed. The groundwater transport model demonstrated that MTBE concentrations greater than 5 μ g/L would not reach the nearest identified water-producing well after 100 years with a continuous source As stated above, the sensitivity test in the model conservatively predicted that MTBE concentrations greater than WQOs (5 μ g/L) would extend a maximum of 775 feet demonstrating that COC plume length is less than 1,000 feet.

For the following reasons, MTBE impacts in groundwater do not pose an unacceptable risk to human health or the environment:

- MTBE in intermediate and deeper wells are at de minimus levels,
- The MTBE source is decreasing (instead of continuous, as assumed in the groundwater transport model) as demonstrated by declining MTBE concentrations in shallow and intermediate wells, and
- The groundwater transport model demonstrates that there is no unacceptable risk to potential down-gradient receptors.

The most recent groundwater contour and chemical concentration maps from the March 2016 event performed by AECOM are included as Figures 3 through 5. MTBE trend graphs for wells where current MTBE concentrations exceed the RWQCB ESL are presented in Figures 6 through 10. Historical groundwater analytical results are presented in Table 2, and historical grab groundwater data are presented in Table 3. Historical boring logs are presented in Appendix C.

3.2.2 Petroleum Vapor Intrusion to Indoor Air

The site is an active fueling facility, and there is no reasonable concern that subsurface contamination poses unacceptable indoor inhalation health risk.

3.2.3 Direct Contact and Outdoor Air Exposure

This site meets the direct contact and outdoor air requirements for benzene and ethylbenzene in commercial soil specified in scenario 1 in the low-threat document:

• Benzene and ethylbenzene concentrations at 0 to 5 feet below grade (fbg) are less than 8.2 milligrams per kilogram (mg/kg) and 89 mg/kg, respectively: No benzene has been

detected in soil samples collected at a depth from less than 5 fbg. Soil samples collected at a depth from less than 5 fbg have contained up to 29 mg/kg ethylbenzene.

• Benzene and ethylbenzene concentrations at 5 to 10 fbg are less than 12 mg/kg and 134 mg/kg, respectively: No benzene or ethylbenzene has been detected in soil samples collected at a depth from 5 to 10 fbg.

July 30, 2004 dispenser soil samples and soil sample P-6 collected at 5.0 fbg are not considered because these locations were subsequently excavated. Historical soil data are presented in Table 1 and historical soil sampling locations are presented on Figure 2 and in Appendix B.

4. Conclusions and Recommendations

GHD concludes that this site has been adequately assessed and meets Policy general, petroleum vapor intrusion to indoor air, and direct exposure and outdoor air criteria, but does not meet media-specific groundwater criteria.

The site should be considered for closure because residual groundwater impacts do not present an unacceptable risk to human health or the environment as detailed below.

- Residual MTBE impacts are minimal; all site benzene and MTBE concentrations are below 1000 $\mu g/L$
- There are no SPHs at the site, the source has been removed, and the secondary source is diminishing, as demonstrated by declining MTBE concentrations in the source area and in shallow and intermediate wells, and
- A groundwater transport model has demonstrated that the closest water-supply well will not be impacted at MTBE concentrations exceeding the RWQCB ESL within 100 years.
- The groundwater transport model also constrains the length of the plume to less than 1000 feet.

Therefore, GHD concludes that the residual petroleum and fuel oxygenate impacts at this site pose very little or no risk to human health or the environment and we request case closure. GHD requests that ACEH suspend the groundwater monitoring program requirement during the closure review.

All of which is Respectfully Submitted,

GHD





C une ð

Diane M. Lundquist, P.E.

Figures

GHD | Report for Shell Oil Products US - Closure Request - 8999 San Ramon Road, Dublin, CA | 240724 (18)



SOURCE: TOPO! MAPS



SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD DUBLIN, CALIFORNIA 240724-15.10 May 19, 2016

VICINITY MAP

FIGURE 1

CAD File: I:\Shell\6-chars\2407--\240724-Dublin 8999 San Ramon Rd\240724-FIGURES\240724-15.10(018)GN\240724-15.10(018)GN-EM001.dwg





LEGEND

MW-5 + SHALLOW MONITORING WELL LOCATION

- MW-5B 🔶 INTERMEDIATE MONITORING WELL LOCATION
- MW-5C 🤹 DEEP MONITORING WELL LOCATION

1.680 ON PRAMIS

CONDOS

CONDOS

- $\rm MW\math{-}1\ \ensuremath{\boxtimes}\ \ DESTROYED WELL LOCATION$
- CPT-1 \oplus CPT SAMPLING LOCATION (DELTA, 2005-2006)
- GP-1 A DIRECT PUSH BORING LOCATION (DELTA, 2005)





CAD File: \\sfo-s1\shared\Shell\6-chars\2407-\240724-Dublin 8999 San Ramon Rd\240724-FIGURES\240724-15.10(018)GN\240724-15.10(018)GN-EM003.dwg

N)

SHALLOW GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP - MARCH 17, 2016

DUBLIN, CALIFORNIA













May 27, 2016













GHD | Report for Shell Oil Products US - Closure Request - 8999 San Ramon Road, Dublin, CA | 240724 (18)

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Ethanol (mg/kg) (Lead (mg/kg)
D-1-2.5	7/30/2004	2.5		17	<0.020	<0.020	0.10	0.49	0.038	0.062	<0.039	<0.020	<0.020	<0.020	<0.020		4.7
D-2-2.5	7/30/2004	2.5	170 ^a		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050		7.0
D-3-2.5	7/30/2004	2.5		<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050		6.2
D-4-2.5	7/30/2004	2.5		4,700	<5.0	130	57	440	<5.0	<25	<10	<5.0	<5.0	<5.0	<5.0		6.8
D-5-2.5	7/30/2004	2.5		<50	<0.50	<0.50	<0.50	<0.50	9.0	11	<1.0	<0.50	<0.50	<0.50	<0.50		6.9
D-6-2.5	7/30/2004	2.5	<1.0		<0.50	<0.50	<0.50	<0.50	1.5	20	<1.0	<0.50	<0.50	<0.50	<0.50		7.6
D-7-2.5	7/30/2004	2.5		<50	<0.50	<0.50	<0.50	<0.50	1.4	3.3	<1.0	<0.50	<0.50	<0.50	<0.50		4.6
P-1-5.0	8/25/2004	5	<1.0	<50	<0.50	<0.50	<0.50	<0.50	4.2	3.8	<1.0	<0.50	<0.50	<0.50	<0.50	<25	6.1
P-2-5.0	8/25/2004	5	28 ^a	<50	<0.50	<0.50	<0.50	<0.50	<0.50	8.4	<1.0	<0.50	<0.50	<0.50	<0.50	<25	8.0
P-3-5.0	8/25/2004	5	<1.0	<50	<0.50	<0.50	<0.50	<0.50	2.1	8.3	<1.0	<0.50	<0.50	<0.50	<0.50	<25	4.3
P-4-5.0	8/25/2004	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.095	0.71	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	6.4
P-5-5.0	8/25/2004	5	<1.0	<4.7	<0.023	<0.023	<0.023	<0.023	0.11	<0.047	<0.047	<0.023	<0.023	<0.023	<0.023	<0.47	4.6
P-6-5.0	8/25/2004	5	<1.0	<1.0	<0.0050	0.018	<0.0050	0.0082	0.048	<0.010	<0.010	< 0.0050	<0.0050	<0.0050	<0.0050	<0.1	6.0
P-7-4.0	8/25/2004	4	1.7 ^c	210	<0.50	<0.50	<0.50	1.0	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	3.6
P-8-4.5	8/25/2004	4.5	<1.0	<50	<0.50	<0.50	<0.50	<0.50	4.6	8.1	<1.0	<0.50	<0.50	<0.50	<0.50	<25	7.0
	0/07/0004	0.5	4.0	4.0	0.0050	0.0050	0 0050	0.0050	0.004	0.040	0.040	0.0050	0.0050	0.0050	0.0050	0.4	
SW-1-3.5	8/27/2004	3.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.031	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
500-1-6	8/27/2004	6	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.021	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
SW-2-3.5'	8/27/2004	3.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
SW-2-6'	8/27/2004	6	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.12	0.026	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
SW-3-2'	8/27/2004	2	<1.0	<1.0	<0.0050	<0.0050	<0.0050	0.0065	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
SW-3-6'	8/27/2004	6	7.5 [⊳]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
SW-4-2.5'	8/27/2004	2.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.10	0.023	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
SW-4-6'	8/27/2004	6	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.016	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Ethanol (mg/kg)	Lead (mg/kg)
EB-1-7.5'	8/27/2004	7.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
T-1-4'	8/27/2004	4	<1.0	<4.6	<0.023	0.27	0.070	0.50	0.10	0.078	<0.046	<0.023	<0.023	<0.023	<0.023	<0.46	
T-2-4'	8/27/2004	4	9,300 ^c	3,900	<1.0	32	7.4	44	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<50	
T-3-4'	8/27/2004	4	<1.0	<4.6	<0.023	<0.023	<0.023	<0.023	0.25	0.34	<0.046	<0.023	<0.023	<0.023	<0.023	<0.46	
T-4-4'	8/27/2004	4	<1.0	<1.0	<0.0050	0.013	<0.0050	0.0089	0.096	0.047	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-1-4'	9/2/2004	4	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.048	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-2-4'	9/2/2004	4	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.25	0.42	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-3-3.5'	9/2/2004	3.5	5.2 ^a	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	1.2	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-4-4'	9/2/2004	4	44 ^a	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.92	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-5-4'	9/2/2004	4	130 ^a	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.72	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-7-4'	9/2/2004	4	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.028	0.43	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-8-4.5'	9/2/2004	5	29 ^a	280	<0.50	<0.50	<0.50	3.0	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	
TX-9-3.5'	9/2/2004	5	5.3 ^a	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.30	0.30	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-10-3.5'	9/2/2004	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.034	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-11-3	9/2/2004	3	<1.0	<4.5	<0.023	<0.023	<0.023	<0.023	0.73	0.71	<0.045	<0.023	<0.023	<0.023	<0.023	<0.45	
TX-12-3'	9/2/2004	3	1, 200 ª	<50	<0.50	<0.50	<0.50	2.4	1.2	7.1	<1.0	<0.50	<0.50	<0.50	<0.50	<25	
TX-13-2.5'	9/2/2004	5	140 ^a	3.9	<0.0050	0.0070	0.015	0.088	0.0058	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-14-3.5'	9/2/2004	5	9.8 ^a	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.071	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-15-3.5'	9/2/2004	5	48 ^a	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-16-3.5'	9/2/2004	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.023	0.15	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-17-3.5'	9/2/2004	5	25 ^b	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-6-1'	9/2/2004	1	3.4 ^a	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.24	0.49	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-6-2'	9/2/2004	2	<1.0	<4.8	<0.024	<0.024	<0.024	<0.024	0.52	1.8	<0.048	<0.024	<0.024	<0.024	<0.024	<0.48	
TX-6-3'	9/2/2004	3	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.24	0.32	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-6-4'	9/2/2004	4	4.7 ^a	<1.0	<0.0050	<0.0050	<0.0050	0.031	0.22	0.22	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Ethanol (mg/kg)	Lead (mg/kg)
TX-6-1a'	9/2/2004	1	30 ^d	<1.0	<0.0050	<0.0050	<0.0050	< 0.0050	<0.0050	0.15	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	
TX-6-2a'	9/2/2004	2	1.1°	<4.8	<0.024	<0.024	<0.024	0.10	0.098	0.13	<0.048	<0.024	<0.024	<0.024	<0.024	<0.48	
TX-6-3a'	9/2/2004	3	290 [°]	2,000	<1.0	11	29	180	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<50	
SW-5-2.5'	9/7/2004	2.5	<1.0	<3.2	<0.016	<0.016	<0.016	<0.016	0.061	0.95	<0.032	<0.016	<0.016	<0.016	<0.016		
SW-6-2.5'	9/7/2004	2.5	16,000 ^a	8,500 ^e	<5.0	<5.0	<5.0	<5.0	<5.0	170	<10	<5.0	<5.0	<5.0	<5.0		
SW-7-2'	9/7/2004	2	22 ^c	440 ^e	<0.50	<0.50	<0.50	<0.50	<0.50	3.3	<1.0	<0.50	<0.50	<0.50	<0.50		
SW-8-2'	9/7/2004	2	9.9 ^c	8.1 ^e	<0.019	<0.019	0.019	0.11	0.38	0.12	<0.38	<0.019	<0.019	<0.019	<0.019		
SW-9-1.5	9/7/2004	1.5	540 ^a	<1.0	<0.0050	<0.0050	<0.0050	< 0.0050	0.033	0.15	<0.010	<0.0050	<0.0050	<0.0050	<0.0050		
SW-10-1.5'	9/7/2004	1.5	270 ^a	<1.0	<0.0050	<0.0050	<0.0050	< 0.0050	0.026	0.18	<0.010	<0.0050	<0.0050	<0.0050	<0.0050		
SW-11-3.5'	9/7/2004	3.5	1.4 ^a	<1.0	<0.0050	<0.0050	<0.0050	< 0.0050	0.30	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050		
SW-12-3.5'	9/7/2004	3.5	<1.0	<3.3	<0.017	<0.017	<0.017	<0.017	<0.017	2.3	<0.033	<0.017	<0.017	<0.017	<0.017		
SW-13-2'	9/7/2004	2	14 ^b	<1.0	<0.0050	<0.0050	<0.0050	< 0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050		
SW-14-2.5'	9/7/2004	2.5	200 ^a	<4.5	<0.022	<0.022	<0.022	<0.022	0.023	6.5	<0.045	<0.022	<0.022	<0.022	<0.022		
GP-1@5'	5/2/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.12	0.069							
GP-1@10'	5/2/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.034	0.16							
GP-1@15'	5/2/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.43	0.31							
GP-1@20'	5/2/2005	20	<1.0	<4.0	<0.02	<0.02	<0.02	<0.02	0.16	0.28							
GP-1@25'	5/2/2005	25	<1.0	<3.7	<0.018	<0.018	<0.018	<0.018	<0.018	0.56							
GP-2@5'	5/2/2005	5	<1.0	<50	<0.05	<0.05	<0.05	<0.05	1.5	<2.5							
GP-2@10'	5/2/2005	10	1.7	<50	<0.05	<0.05	<0.05	<0.05	0.72	12							
GP-2@15'	5/2/2005	15	<1.0	<50	<0.05	<0.05	<0.05	<0.05	9.5	4.7							
GP-2@20'	5/2/2005	20	<1.0	<50	<0.05	<0.05	<0.05	<0.05	<0.05	8.0							
GP-2@25'	5/2/2005	25	<1.0	<50	<0.05	<0.05	<0.05	<0.05	<0.05	13							
GP-3@4'	4/29/2005	4	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01							
GP-3@5'	4/29/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.11	0.058							

Sample ID	Date	Depth	TPHd	TPHg	В	т	Е	Х	MTBE	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	Ethanol	Lead
		(fbg)	(mg/kg)														
GP-3@10'	5/2/2005	10	2.2	<1.0	<0.005	<0.005	<0.005	<0.005	0.18	0.041							
GP-3@15'	5/2/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.14	0.035							
GP-3@20'	5/2/2005	20	1.2	<1.0	<0.005	<0.005	<0.005	<0.005	0.022	0.011							
GP-3@25'	5/2/2005	25	3.3	<1.0	<0.005	<0.005	<0.005	<0.005	0.023	0.037							
GP-5@4.5'	4/29/2005	4.5	14	1,000	<0.5	3.3	10	76	<0.5	<2.5							
GP-5@5'	4/29/2005	5	<1.0	2.1	0.031	0.033	0.071	0.56	0.010	<0.01							
GP-5@10'	5/3/2005	10	<1.0	<50	<0.5	<0.5	<0.5	0.016	0.32	0.12							
GP-5@15'	5/3/2005	15	1.6	<50	<0.5	<0.5	<0.5	<0.5	6.9	<2.5							
GP-5@20'	5/3/2005	20	1.6	<50	<0.5	<0.5	<0.5	<0.5	2.2	<2.5							
GP-5@25'	5/3/2005	25	3.8	290	<0.5	<0.5	<0.5	9.0	1.7	<2.5							
GP-6@5'	4/29/2005	5	9.7	<50	<0.5	<0.5	<0.5	<0.5	5.3	7.3							
GP-6@10'	5/2/2005	10	8.8	<2.1	<0.011	<0.011	<0.011	<0.011	0.11	2.5							
GP-6@15'	5/2/2005	15	2.8	<50	<0.5	<0.5	<0.5	<0.5	20	4.6							
GP-6@20'	5/2/2005	20	1.9	<50	<0.5	<0.5	<0.5	<0.5	17	<2.5							
GP-6@25'	5/2/2005	25	1.9	<50	<0.5	<0.5	<0.5	<0.5	1.3	4.5							
GP-7@5'	4/29/2005	5	2.3	1.5	0.0096	<0.005	0.035	0.099	0.19	0.093							
GP-7@10'	5/2/2005	10	2.1	<50	<0.5	<0.5	<0.5	<0.5	0.91	<2.5							
GP-7@15'	5/2/2005	15	38	<50	<0.5	<0.5	<0.5	<0.5	5.3	<2.5							
GP-7@20'	5/2/2005	20	2.1	<50	<0.5	<0.5	<0.5	<0.5	3.0	<2.5							
GP-7@25'	5/2/2005	25	6.8	<4.5	<0.023	<0.023	<0.023	<0.023	0.83	1.4							
GP-8@3.5'	4/29/2005	3.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.34	0.20							
GP-8@5'	4/29/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.073	0.021							
GP-8@11'	5/3/2005	11	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.38	0.17							
GP-8@15'	5/3/2005	15	1.6	<1.0	<0.005	<0.005	<0.005	<0.005	0.37	0.018							
GP-8@20'	5/3/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.0083	0.012							

Sample ID	Date	Depth (fbg)	TPHd (mg//(g)	TPHg	B (ma/ka)	T (ma/ka)	E (ma/ka)	X (ma/ka)	MTBE	TBA	DIPE	ETBE		1,2-DCA	EDB	Ethanol	Lead
		(ibg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
GP-8@25'	5/3/2005	25	1.2	<1.0	<0.005	<0.005	<0.005	<0.005	0.017	0.059							
GP-9@5'	4/29/2005	5	1.7	<2.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02							
GP-9@10'	5/4/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.2	0.15							
GP-9@15'	5/4/2005	15	<1.0	<50	<0.5	<0.5	<0.5	<0.5	5.6	3.6							
GP-9@20'	5/4/2005	20	<1.0	<50	<0.5	<0.5	<0.5	<0.5	8.2	7.8							
GP-9@25'	5/4/2005	25	<1.0	<50	<0.5	<0.5	<0.5	<0.5	3.5	6.5							
GP-10@5'	4/29/2005	5	<1.0	<4.7	<0.23	<0.23	<0.23	<0.23	0.2	0.28							
GP-10@10'	5/4/2005	10	<1.0	<3.7	<0.019	<0.019	<0.019	<0.019	1.3	1.1							
GP-10@15'	5/4/2005	15	<1.0	<50	<0.5	<0.5	<0.5	<0.5	10	5.2							
GP-10@20'	5/4/2005	20	2	<50	<0.5	<0.5	<0.5	<0.5	8.4	<2.5							
GP-10@25'	5/4/2005	25	<1.0	<50	<0.5	<0.5	<0.5	<0.5	5.4	15							
GP-11@5'	4/29/2005	5	1.6	<2.0	<0.01	<0.01	<0.01	<0.01	0.18	0.052							
GP-11@10'	5/3/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.077	0.077							
GP-11@15'	5/3/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.38	0.37							
GP-11@20'	5/3/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.069	0.25							
GP-11@25'	5/3/2005	25	<1.0	<4.9	<0.025	<0.025	<0.025	<0.025	1.5	1.0							
GP-12@5'	4/29/2005	5	<1.0	<2.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02							
GP-12@10'	5/4/2005	10	1.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01							
GP-12@15'	5/4/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.014	0.024							
GP-12@20'	5/4/2005	20	1.4	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01							
GP-12@25'	5/4/2005	25	1.7	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01							
GP-13@1.5'	4/29/2005	1.5	13	<2.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02							
GP-13@5'	4/29/2005	5	<1.0	<2.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02							
GP-13@10'	5/3/2005	10.5	1.5	<1.0	<0.005	<0.005	<0.005	<0.005	0.0057	<0.01							

Sample ID	Date	Depth	TPHd	TPHg	В	т	Е	Х	MTBE	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	Ethanol	Lead
		(fbg)	(mg/kg)														
GP-13@15'	5/3/2005	15	11	<1.0	<0.005	<0.005	<0.005	<0.005	0.019	<0.01							
GP-13@20'	5/3/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.012	0.021							
GP-13@25'	5/3/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.021	0.016							
GP-14@5'	4/29/2005	5	2.1	<5.0	<0.025	<0.025	<0.025	<0.025	0.6	0.47							
GP-14@11'	5/2/2005	11	1.8	<4.0	<0.02	<0.02	<0.02	<0.02	0.72	0.39							
GP-14@15'	5/2/2005	15	1.3	<1.0	<0.005	<0.005	<0.005	<0.005	0.0068	0.30							
GP-14@20'	5/2/2005	20	<1.0	<4.7	<0.024	<0.024	<0.024	<0.024	0.049	2.8							
GP-14@25'	5/2/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.065	1.1							
MW-1@5'	5/2/2005	5	1.3	<1.0	<0.005	<0.005	<0.005	<0.005	0.19	0.16							
MW-1@10'	5/5/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	14	3.0							
MW-1@15'	5/5/2005	15	<1.0	<2.5	<0.025	<0.025	<0.025	0.026	17	4.6							
MW-1@20'	5/5/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	1.2	2.7							
MW-1@25'	5/5/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.040	5.9							
MW-2@5'	5/2/2005	5	<1.0	<50	<0.5	<0.5	<0.5	<0.5	1.2	<2.5							
MW-2@10'	5/5/2005	10	<1.0	<1.0	<0.005	< 0.005	< 0.005	< 0.005	0.067	0.012							
MW-2@15'	5/5/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	< 0.005	<0.005	<0.005							
MW-2@20'	5/5/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
MW-2@25'	5/5/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	0.017							
MW-3@5'	5/2/2005	5	1.2	<1.0	<0.005	<0.005	<0.005	<0.005	0.018	0.010							
MW-3@10'	5/5/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
MW-3@15'	5/5/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
MW-3@20'	5/5/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
MW-3@25'	5/5/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
MW-4@5'	5/2/2005	5	2.8	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							

Sample ID	Date	Depth (fbg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	Ethanol (mg/kg)	Lead (mg/kg)
MW-4@10'	5/6/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	0.0057							
MW-4@15'	5/6/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	0.023							
MW-4@20'	5/6/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	0.0058							
MW-4@25'	5/6/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005							
Sewer Trench Backfill-2.5'	5/26/2005	2.5	1.6	<1.0	<0.005	<0.005	<0.005	<0.005	0.044	0.046							
MW-6@10'	2/23/2006	10	12	<2.5	<0.05	<0.05	<0.05	<0.05	1.4	<5.0							
MW-6@15'	2/23/2006	15	1.4	3.8	<0.05	<0.05	<0.05	<0.05	< 0.05	<5.0							
MW-6@20'	2/23/2006	20	1.5	<0.1	<0.005	<0.005	<0.005	<0.005	0.089	<0.02							
MW-8@15'	7/26/2006	15	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.005	<0.5							
MW-8@20'	7/26/2006	20	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.005	<0.5							
MW-10@5'	7/25/2006	5	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	0.017	<0.5							
MW-10@10'	7/26/2006	10	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	0.16	<0.5							
MW-10@15'	7/26/2006	15	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	0.044	<0.5							
MW-10@19.5'	7/26/2006	19.5	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.005	<0.5							
MW-10@25'	7/26/2006	25	<2.0	<1.0	<0.005	< 0.005	<0.005	<0.01	<0.005	0.2							
MW-10@28'	7/26/2006	28	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.005	0.096							
MW-11@5'	7/25/2006	5	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.005	<0.5							
MW-1R@10'	2/10/2010	10	440	<0.5	<0.005	<0.005	<0.005	<0.005	0.032	1.3	<0.01	<0.01	<0.01				
MW-1R@35'	2/10/2010	35	<5	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	0.12	<0.01	<0.01	<0.01				
MW-3R	2/11/2010	30	<5	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01				

Historical Soil Analytical Data Shell-branded Service Station 8999 San Ramon Road, Dublin, California

Sample ID	Date	Depth	TPHd	TPHg	В	Т	E	Х	MTBE	TBA	DIPE	ETBE	TAME	1,2-DCA	EDB	Ethanol	Lead
		(fbg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
MW-2RC-5.5	2/22/2011	5.5	170	<0.20	<0.00099	<0.00099	<0.0009	<0.0020	<0.0020	<0.020							
MW-2RC-15.5	2/22/2011	15.5	<5.0	<0.19	<0.00099	<0.00099	<0.0009	< 0.0020	<0.0020	<0.020							
MW-2RC-25.5	2/22/2011	25.5	<5.0	<0.20	<0.00099	<0.00099	<0.0009	< 0.0020	<0.0020	<0.020							
MW-2RC-35.5	2/22/2011	35.5	<5.0	<0.19	<0.00099	<0.00099	<0.00099	<0.0020	<0.0020	<0.020							
MW-13C-5.5	3/2/2011	5.5	3,600	<0.19	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.10							
MW-13C-15.5	3/2/2011	15.5	<5.0	<0.19	<0.00099	<0.00099	<0.0009	< 0.0020	<0.0020	<0.099							
MW-13C-25.5	3/2/2011	25.5	<5.0	<0.19	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.10							
MW-13C-35.5	3/2/2011	35.5	<5.0	<0.19	<0.00099	<0.00099	<0.00099	<0.0020	<0.0020	<0.099							
MW-14C-5.5	2/28/2011	5.5	26	<0.20	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.10							
MW-14C-15.5	2/28/2011	15.5	<5.0	<0.19	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.10							
MW-14C-25.5	2/28/2011	25.5	<5.0	<0.20	<0.00099	<0.00099	<0.0009	< 0.0020	<0.0020	<0.099							
MW-14C-35.5	2/28/2011	35.5	<5.0	<0.20	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.10							
Tier 1 Soil ESI	L ^f :		230	100	0.044	2.9	1.4	2.3	0.023	0.075	NA	NA	NA	0.0045	0.00033	NA	80

Notes:

TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015; analytical methods for 2005 and 2006 samples are unknown.

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; analytical methods for 2005 and 2006 samples are unknown.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; analytical methods for 2005 and 2006 samples are unknown.

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B; analytical methods for 2005 and 2006 samples are unknown.

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B; analytical methods for 2005 and 2006 samples are unknown.

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

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

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

Ethanol analyzed by EPA Method 8260B

Lead analyzed by EPA Method 6010B

fbg = Feet below grade

mg/kg = Milligrams per kilogram

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Ε Sample ID Х MTBE TBA DIPE Date Depth TPHd TPHg В Т ETBE TAME 1.2-DCA EDB Ethanol Lead (fbg) (mg/kg) (mg/kg)

<x = Not detected at reporting limit x

--- = Not analyzed

ESL = Environmental screening level

NA = No applicable ESL

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

Shading indicates that soil sample location was subsequently excavated; results are not representative of residual soil.

a = Hydrocarbon reported does not match the pattern of laboratory diesel standard.

b = Hydrocarbon reported in the late diesel range, and does not match laboratory diesel standard.

c = Hydrocarbon reported in the early diesel range, and does not match laboratory diesel standard.

d = Compound reported reflects individual or discrete unidentified peaks detected in the diesel range. The pattern does not match a typical fuel standard.

e = Hydrocarbon reported in the gasoline range does not match laboratory standard.

f = San Francisco Bay Regional Water Quality Control Board ESLs from Summary of Soil ESLs table, Soil Tier 1 ESL in User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), Interim Final, February 2016

Groundwater Data Shell-branded Service Station 8999 San Ramon Road, Dublin, California

Well ID	Date	TPHd	TPHa	в	т	Е	х	МТВЕ	ТВА	DIPE	ETBE	ТАМЕ	тос	Depth to Water	GW Elevation
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-1	05/09/2005													20.93	
MW-1	05/19/2005	160 a,b	<5,000	<50	<50	<50	<100	1,400	57,000	<200	<200	<200	420.06	20.70	399.36
MW-1	08/15/2005	<50 a	<5,000	<50	<50	<50	<100	360	56,000	<200	<200	<200	420.06	23.98	396.08
MW-1	11/08/2005	Well dry											420.06		
MW-1	01/30/2006	438 a	585	<0.500	<0.500	<0.500	<0.500	15.6	115,000	<0.500	<0.500	<0.500	420.06	26.39	393.67
MW-1	05/19/2006	279	2,940	<0.500	<0.500	<0.500	<0.500	150	49,500	<0.500	0.940	<0.500	420.06	23.10	396.96
MW-1	08/24/2006	85.6	812	<0.500	<0.500	<0.500	<0.500	33.0	30,700	<0.500	0.890	<0.500	420.06	23.94	396.12
MW-1	11/02/2006	Well dry											420.06		
MW-1	01/29/2007	Well dry											420.06		
MW-1	06/05/2007	Well dry											420.06		
MW-1	08/27/2007	Well dry											420.06		
MW-1	11/30/2007	Well dry											420.06		
MW-1	02/15/2008	Insufficien	t water										420.06	26.45	393.61
MW-1	05/22/2008	Well destr	oyed												
MW-1R	03/11/2010													26.56	
MW-1R	03/19/2010	<50	91	<0.50	<1.0	<1.0	<1.0	1.7	2,400	<2.0	<2.0	<2.0		26.09	
MW-1R	05/07/2010	<50	140	<1.0	<2.0	<2.0	<2.0	2.2	3,300	<4.0	<4.0	<4.0		24.00	
MW-1R	08/09/2010	<50	300	<2.5	<5.0	<5.0	<5.0	5.9	9,600	<10	<10	<10		27.91	
MW-1R	11/08/2010	<50	86	<0.50	<1.0	<1.0	<1.0	3.3	2,500	<2.0	<2.0	<2.0	421.41	33.60	387.81
MW-1R	01/25/2011	<480	<50	<0.50	<0.50	<0.50	<1.0	1.4	1,100	<1.0	<1.0	<1.0	421.41	29.34	392.07
MW-1R	05/23/2011	<48	<250	<2.5	<2.5	<2.5	<5.0	<5.0	2,400	<5.0	<5.0	<5.0	421.41	21.29	400.12
MW-1R	07/26/2011	<48	210 e	<2.0	<2.0	<2.0	<4.0	<4.0	4,500	<4.0	<4.0	<4.0	421.41	22.70	398.71
MW-1R	11/03/2011												421.41	31.30	390.11
MW-1R	11/04/2011	<47	<250	<2.5	<2.5	<2.5	<5.0	5.5	5,600	<5.0	<5.0	<5.0	421.41		
MW-1R	01/26/2012	<49	<50	<0.50	<0.50	<0.50	3.2	2.9	770	<0.50	<0.50	<0.50	421.41	31.60	389.81
MW-1R	05/11/2012	140	<50	<0.50	<0.50	<0.50	<1.0	0.87	610	<0.50	<0.50	<0.50	421.41	25.71	395.70
MW-1R	08/02/2012	<48	<130	<1.3	<1.3	<1.3	<2.5	1.3	2,100	<1.3	<1.3	<1.3	421.41	31.32	390.09

Groundwater Data Shell-branded Service Station 8999 San Ramon Road, Dublin, California

Well ID	Date	TPHd	TPHa	в	т	Е	х	MTBE	ТВА	DIPE	ETBE	TAME	тос	Depth to Water	GW Elevation
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-1R	01/17/2013	61	<100	1.0	1.0	<1.0	5.5	<1.0	1.600	<1.0	<1.0	<1.0	421.41	29.36	392.05
MW-1R	08/09/2013	<48	<50	< 0.50	0.75	0.84	3.9	0.78	67	< 0.50	< 0.50	< 0.50	421.41	33.03	388.38
MW-1R	02/10/2014	<48	<50	< 0.50	< 0.50	< 0.50	<1.0	<0.50	<10	< 0.50	< 0.50	< 0.50	421.41	33.74	387.67
MW-1R	07/29/2014												421.41	33.92	387.49
MW-1R	07/30/2014	76	<50	<0.50	<0.50	<0.50	<1.0	0.60	<10	<0.50	<0.50	<0.50	421.41		
MW-1R	02/02/2015	<48	100 j	<0.50	<0.50	<0.50	<1.0	1.5	1,400	<0.50	<0.50	<0.50	421.41	29.73	391.68
MW-1R	07/30/2015	<48	, <50	<0.50	<0.50	<0.50	<1.0	1.6	290	<0.50	<0.50	<0.50	421.41	32.48	388.93
MW-1R	03/17/2016	100	<50	<1.0	<1.0	<1.0	<1.0	<2.0	950	<2.0	<2.0	<2.0	421.41	25.51	395.90
MW-2	05/09/2005													20.72	385.86
MW-2	05/19/2005	<50 a	<500	<5.0	<5.0	<5.0	<10	11	4,200	<20	<20	<20	418.88	21.26	381.17
MW-2	08/15/2005	<50 a	<1,000	<10	<10	<10	<20	<10	7,500	<40	<40	<40	418.88	25.33	392.60
MW-2	11/08/2005	Well dry											418.88		
MW-2	01/30/2006	401 a	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	1,310	<0.500	<0.500	<0.500	418.88	25.87	393.01
MW-2	05/19/2006	134	398	<0.500	<0.500	<0.500	<0.500	7.65	4,910	<0.500	<0.500	<0.500	418.88	21.75	397.13
MW-2	08/24/2006	<46.9	<50.0	<0.500	<0.500	<0.500	<0.500	2.82	4,070	<0.500	<0.500	<0.500	418.88	24.60	394.28
MW-2	11/02/2006	Well dry											418.88		
MW-2	01/29/2007	Well dry											418.88		
MW-2	06/05/2007	Insufficien	t water										418.88	26.54	392.34
MW-2	08/27/2007	Well dry											418.88		
MW-2	11/30/2007	Well dry											418.88		
MW-2	02/15/2008	Insufficien	t water										418.88	26.15	392.73
MW-2	05/15/2008	Well destro	oyed												
MW-2R	05/11/2011												415.82	20.87	394.95
MW-2R	05/23/2011	140	1,100	<0.50	<0.50	<0.50	<1.0	1.5	140	<1.0	<1.0	<1.0	415.82	25.20	390.62
MW-2R	07/26/2011	64	370	<0.50	<0.50	<0.50	<1.0	<1.0	1,200	<1.0	<1.0	<1.0	415.82	21.48	394.34
MW-2R	11/03/2011												415.82	28.92	386.90

Groundwater Data Shell-branded Service Station 8999 San Ramon Road, Dublin, California

Well ID	Date	трна	ТРНа	в	т	F	Y	MTRE	TRA		ETRE	таме	тос	Depth to Water	GW Elevation
Weil ID	Date	(µg/L)	(µg/L)	μg/L)	י (µg/L)	с (µg/L)	~ (µg/L)	(µg/L)	(µg/L)	(μg/L)	μg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-2R	11/04/2011	51	610	<0.50 h	<0.50 h	<0.50 h	<1.0 h	1.8 h	220 h	<1.0 h	<1.0 h	<1.0 h	415.82		
MW-2R	01/26/2012	100	1,700	<1.0	<1.0	<1.0	<2.0	2.2	460	<1.0	<1.0	<1.0	415.82	29.63	386.19
MW-2R	05/11/2012	64	1,200	<0.50	<0.50	<0.50	<1.0	1.1	310	<0.50	<0.50	<0.50	415.82	25.05	390.77
MW-2R	08/02/2012	90 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.82	28.04	387.78
MW-2R	01/17/2013	160 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.82	28.80	387.02
MW-2R	08/09/2013	53	780	<1.0	<1.0	<1.0	<2.0	<1.0	59	<1.0	<1.0	<1.0	415.82	31.01	384.81
MW-2R	02/10/2014	99	1,000	<1.0	<1.0	<1.0	<2.0	<1.0	41 f	<1.0	<1.0	<1.0	415.82	31.19	384.63
MW-2R	07/29/2014												415.82	31.52	384.30
MW-2R	07/30/2014	57	110	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.82		
MW-2R	02/02/2015	62	530	<0.50	<0.50	<0.50	<1.0	<0.50	20	<0.50	<0.50	<0.50	415.82	28.53	387.29
MW-2R	07/30/2015	48 e	650	<0.50	<0.50	<0.50	<1.0	<0.50	29	<0.50	<0.50	<0.50	415.82	30.66	385.16
MW-2R	03/17/2016	98	430	<1.0	<1.0	<1.0	<1.0	<2.0	<50	<2.0	<2.0	<2.0	415.82	24.45	391.37
MW-2RB	05/11/2011												415.66	22.28	393.38
MW-2RB	05/23/2011	61	<50	<0.50	<0.50	<0.50	<1.0	29	10	<1.0	<1.0	<1.0	415.66	21.77	393.89
MW-2RB	07/26/2011	69	59	<0.50	<0.50	<0.50	<1.0	28	<10	<1.0	<1.0	<1.0	415.66	23.40	392.26
MW-2RB	11/03/2011	88	110	<0.50	<0.50	<0.50	<1.0	18	<10	<1.0	<1.0	<1.0	415.66	30.72	384.94
MW-2RB	01/26/2012	150	<50	<0.50	<0.50	<0.50	<1.0	10	<10	<0.50	<0.50	<0.50	415.66	31.42	384.24
MW-2RB	05/11/2012	<48	490	<0.50	<0.50	<0.50	<1.0	1.1	<10	<0.50	<0.50	<0.50	415.66	26.83	388.83
MW-2RB	08/02/2012	250 e	350 e	<0.50	<0.50	<0.50	<1.0	0.75	<10	<0.50	<0.50	<0.50	415.66	30.57	385.09
MW-2RB	01/17/2013	180 e	300 e	<0.50	<0.50	<0.50	<1.0	0.50	<10	<0.50	<0.50	<0.50	415.66	29.80	385.86
MW-2RB	08/09/2013	<48	200	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.66	32.70	382.96
MW-2RB	02/10/2014	92	110	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.66	33.36	382.30
MW-2RB	07/29/2014												415.66	33.26	382.40
MW-2RB	07/30/2014	52	76	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.66		
MW-2RB	02/02/2015	120	<50	<0.50	<0.50	<0.50	<1.0	3.3	<10	<0.50	<0.50	<0.50	415.66	30.69	384.97
MW-2RB	07/30/2015	160 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.66	32.47	383.19
MW-2RB	03/17/2016	96	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<50	<2.0	<2.0	<2.0	415.66	26.53	389.13
Well ID	Date	TPHd	TPHg	в	т	Е	х	MTBE	ТВА	DIPE	ETBE	TAME	тос	Depth to Water	GW Elevation
---------	------------	----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	----------	-------------------	-----------------
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-2RC	05/11/2011												415.97	27.01	388.96
MW-2RC	05/13/2011												415.97	29.95	386.02
MW-2RC	05/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	31	14	<1.0	<1.0	<1.0	415.97	27.01	388.96
MW-2RC	07/26/2011	<49	69	<0.50	<0.50	<0.50	<1.0	32	<10	<1.0	<1.0	<1.0	415.97	28.22	387.75
MW-2RC	11/03/2011												415.97	35.65	380.32
MW-2RC	11/04/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	46	<10	<1.0	<1.0	<1.0	415.97		
MW-2RC	01/26/2012	47	<50	<0.50	<0.50	<0.50	<1.0	35	<10	<1.0	<1.0	<1.0	415.97	36.82	379.15
MW-2RC	05/11/2012	<47	<50	<0.50	<0.50	<0.50	<1.0	20	<10	<0.50	<0.50	<0.50	415.97	32.71	383.26
MW-2RC	08/02/2012	95 e	54	<0.50	<0.50	<0.50	<1.0	42	<10	<0.50	<0.50	<0.50	415.97	34.27	381.70
MW-2RC	01/17/2013	290 e	83 i	<0.50	<0.50	<0.50	<1.0	67	<10	<0.50	<0.50	<0.50	415.97	34.80	381.17
MW-2RC	08/09/2013	<48	<50	<0.50	<0.50	<0.50	<1.0	42	14	<0.50	<0.50	<0.50	415.97	37.81	378.16
MW-2RC	02/10/2014	68	63	<0.50	<0.50	<0.50	<1.0	77	<10	<0.50	<0.50	<0.50	415.97	39.04	376.93
MW-2RC	07/29/2014												415.97	38.68	377.29
MW-2RC	07/30/2014	320 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.97		
MW-2RC	02/02/2015	100	98 i	<0.50	<0.50	<0.50	<1.0	52	<10	<0.50	<0.50	<0.50	415.97	35.91	380.06
MW-2RC	07/30/2015	<48	<50	<0.50	<0.50	<0.50	<1.0	19	<10	<0.50	<0.50	<0.50	415.97	36.03	379.94
MW-2RC	03/17/2016	99	180 I	<1.0	<1.0	<1.0	<1.0	33	<50 k	<2.0	<2.0	<2.0	415.97	31.33	384.64
MW-3	05/09/2005													19.08	
MW-3	05/19/2005	120 b	<50	<0.50	<0.50	<0.50	<1.0	40	6.5	<2.0	<2.0	<2.0	417.24	19.08	398.16
MW-3	08/15/2005	73 a	<50	<0.50	<0.50	<0.50	<1.0	34	<5.0	<2.0	<2.0	<2.0	417.24	22.20	395.04
MW-3	11/08/2005	Well dry											417.24		
MW-3	01/30/2006	412 a	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	417.24	23.64	393.60
MW-3	05/19/2006	183	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	417.24	19.00	398.24
MW-3	08/24/2006	214	<50.0	<0.500	<0.500	<0.500	<0.500	3.11	661	<0.500	<0.500	<0.500	417.24	21.84	395.40
MW-3	11/02/2006	Well dry											417.24		
MW-3	01/29/2007	Well dry											417.24		

	Date	трна	трна	B	т	F	x	MTRE	TRA		FTRE	таме	TOC	Depth to Water	GW Elevation
	Dale	((ں ()، مرال	ן (יימיון)	∟ (∧ (
		(µg/∟)	(µg/∟)	(µg/Ľ)	(µg/∟)	(µg/∟)	(µg/Ľ)	(µg/∟)	(µg/L)	(µg/Ľ)	(µg/∟)	(µg/Ľ)	(IT INSL)	(11100)	
MW-3	06/05/2007	230	<50 c	<0.50	<1.0	<1.0	<1.0	0.38 d	<10	<2.0	<2.0	<2.0	417.24	23.80	393.44
MW-3	08/27/2007	Well dry											417.24		
MW-3	11/30/2007	Well dry											417.24		
MW-3	02/15/2008	Insufficient	t water										417.24	23.60	393.64
MW-3	05/15/2008	Well destro	oyed												
MW-3R	03/11/2010													22.60	
MW-3R	03/19/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0		22.30	
MW-3R	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0		21.14	
MW-3R	08/09/2010	<50	<50	4.7	<1.0	<1.0	1.2	<1.0	<10	<2.0	<2.0	<2.0		24.20	
MW-3R	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	417.18	27.60	389.58
MW-3R	01/25/2011	<490	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	417.18	24.36	392.82
MW-3R	05/23/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	417.18	18.31	398.87
MW-3R	07/26/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	417.18	18.72	398.46
MW-3R	11/03/2011												417.18	25.59	391.59
MW-3R	11/04/2011	77	<50 g	<0.50 g	<0.50 g	<0.50 g	<1.0 g	<1.0 g	<10 g	<1.0 g	<1.0 g	<1.0 g	417.18		
MW-3R	01/26/2012	110	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	26.14	391.04
MW-3R	05/11/2012	55	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	22.25	394.93
MW-3R	08/02/2012	60 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	25.50	391.68
MW-3R	01/17/2013	78 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	24.58	392.60
MW-3R	08/09/2013	120	57	<0.50	1.4	1.7	7.9	<0.50	<10	<0.50	<0.50	<0.50	417.18	27.21	389.97
MW-3R	02/10/2014	<51	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	27.50	389.68
MW-3R	07/29/2014												417.18	27.94	389.24
MW-3R	07/30/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18		
MW-3R	02/02/2015	77	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	24.68	392.50
MW-3R	07/30/2015	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	26.63	390.55
MW-3R	03/17/2016	50	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<50	<2.0	<2.0	<2.0	417.18	21.23	395.95

Well ID	Date	TPHd	TPHa	в	т	Е	x	МТВЕ	ТВА	DIPE	ETBE	ТАМЕ	тос	Depth to Water	GW Elevation
		(µg/L)	(µg/L)	_ (µg/L)	(µg/L)	– (µg/L)	(µg/L)	(μg/L)	(µg/L)	 (μg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-4	05/09/2005													19.77	
MW-4	05/19/2005	59 b	97	0.66	<0.50	<0.50	<1.0	4.8	8.2	<2.0	<2.0	<2.0	420.52	19.85	400.67
MW-4	08/15/2005	<50 a	67	<0.50	<0.50	<0.50	<1.0	0.86	<5.0	<2.0	<2.0	<2.0	420 52	23.34	397 18
MW-4	11/08/2005	Well drv											420.52		
MW-4	01/30/2006	112 a	<50.0	<0.500	<0.500	<0.500	<0.500	1.63	<10.0	<0.500	<0.500	<0.500	420.52	24.13	396.39
MW-4	05/19/2006	<46.9	<50.0	<0.500	<0.500	<0.500	<0.500	1.08	<10.0	<0.500	<0.500	< 0.500	420.52	19.79	400.73
MW-4	08/24/2006	<47.2	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	78.3	<0.500	<0.500	<0.500	420.52	22.50	398.02
MW-4	11/02/2006	Well dry											420.52		
MW-4	01/29/2007	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	420.52	25.82	394.70
MW-4	06/05/2007	120	62 c	<0.50	<1.0	<1.0	<1.0	1.4	<10	<2.0	<2.0	<2.0	420.52	24.32	396.20
MW-4	08/27/2007	Well dry											420.52		
MW-4	11/30/2007	Well dry											420.52		
MW-4	02/15/2008	<50	56 c	<0.50	<1.0	<1.0	<1.0	2.9	<10	<2.0	<2.0	<2.0	420.52	24.34	396.18
MW-4	05/15/2008	Well destro	oyed												
	09/24/2006												446 99	25.25	201 62
	08/21/2006												410.88	25.25	391.03
	08/24/2006	108	<50.0	<0.500	<0.500	< 0.500	<0.500	3.33	21.0	<0.500	<0.500	<0.500	410.88	25.70	391.18
	11/02/2006		<50	< 0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	410.00	20.00	200.00
	01/29/2007	00 2 200 h	<50	< 0.50	<0.50	<0.50	<1.0	<0.50	< 3.0	<2.0	<2.0	<2.0	410.00	27.00	200.16
	00/05/2007	2,200 D	<00.0	<0.50	<1.0	<1.0	<1.0	0.56 u	<10	<2.0	<2.0	<2.0	410.00	21.12	309.10
	11/20/2007												410.00	20 20	200 10
	02/15/2007	Insufficient	t water										410.00	20.39	200.49
	02/13/2008	02						12					410.00	27.00	200.20
MM/_5	03/27/2008	Woll dry	<50	<0.50	<1.0	<1.0	<1.0	4.5	<10	<2.0	<2.0	<2.0	410.00	20.00	390.20
M\\\/_5	11/17/2000		t water										416.88	28 / 8	388 10
MW-5	02/05/2000	Well dry											416.88	20.40	
MW-5	05/07/2009	Insufficient	t water										416.88	27 78	389 10

Well ID	Date	TPHd	TPHg	В	т	Е	х	МТВЕ	ТВА	DIPE	ETBE	TAME	тос	Depth to Water	GW Elevation
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-5	08/20/2009	Well dry											416.88		
MW-5	11/10/2009	Well dry											416.88		
MW-5	02/15/2010	Well dry											416.88		
MW-5	03/19/2010												416.88	26.18	390.70
MW-5	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	1.5	<10	<2.0	<2.0	<2.0	416.88	23.64	393.24
MW-5	08/09/2010	Insufficier	nt water										416.88	28.41	388.47
MW-5	11/08/2010	Well dry											416.88		
MW-5	01/25/2011	Well dry											416.88		
MW-5	05/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	1.3	<10	<1.0	<1.0	<1.0	416.88	21.31	395.57
MW-5	07/26/2011	<50	<50	<0.50	<0.50	<0.50	<1.0	1.4	<10	<1.0	<1.0	<1.0	416.88	22.87	394.01
MW-5	11/03/2011	Well dry											416.88		
MW-5	01/26/2012	Insufficier	nt water										416.88	28.23	388.65
MW-5	05/11/2012	65	<50	<0.50	<0.50	<0.50	<1.0	0.56	<10	<0.50	<0.50	<0.50	416.88	25.93	390.95
MW-5	08/02/2012	Well dry											416.88		
MW-5	01/17/2013	Well dry											416.88		
MW-5	08/09/2013	Well dry											416.88		
MW-5	02/10/2014	Well dry											416.88		
MW-5	07/29/2014	Well dry											416.88		
MW-5	02/02/2015	Well dry											416.88		
MW-5	07/30/2015	Well dry											416.88		
MW-5	03/17/2016	69	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<50	<2.0	<2.0	<2.0	416.88	25.96	390.92
MW-5B	02/07/2008												417.66	29.74	387.92
MW-5B	02/15/2008	<50	110 b,c	<0.50	<1.0	<1.0	<1.0	1,700	250	<2.0	<2.0	<2.0	417.66	28.85	388.81
MW-5B	05/27/2008	<50	620	<2.5	<5.0	<5.0	<5.0	590	<50	<10	<10	<10	417.66	27.89	389.77
MW-5B	08/05/2008	140	470	<2.5	<5.0	<5.0	<5.0	430	<50	<10	<10	<10	417.66	32.21	385.45
MW-5B	11/17/2008	<50	1,100	<2.5	<5.0	<5.0	<5.0	830	<50	<10	<10	<10	417.66	35.25	382.41
MW-5B	02/05/2009	<50	1,100	<2.5	<5.0	<5.0	<5.0	1,000	<50	<10	<10	<10	417.66	34.94	382.72

Well ID	Date	TPHd	TPHa	в	т	Е	х	МТВЕ	ТВА	DIPE	ETBE	ТАМЕ	тос	Depth to Water	GW Elevation
		(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)										
MW-5B	05/07/2009	<50	680	<2.5	<5.0	<5.0	<5.0	780	<50	<10	<10	<10	417.66	28.58	389.08
MW-5B	08/20/2009	<50	800	<2.5	<5.0	<5.0	<5.0	840	<50	<10	<10	<10	417.66	32.66	385.00
MW-5B	11/10/2009	<50	790	<2.5	<5.0	<5.0	<5.0	750	<50	<10	<10	<10	417.66	34.64	383.02
MW-5B	02/15/2010	<50	710	<2.5	<5.0	<5.0	<5.0	730	<50	<10	<10	<10	417.66	30.20	387.46
MW-5B	03/19/2010												417.66	27.39	390.27
MW-5B	05/07/2010	<50	230	<1.0	<2.0	<2.0	<2.0	330	<20	<4.0	<4.0	<4.0	417.66	26.13	391.53
MW-5B	08/09/2010	<50	310	<1.0	<2.0	<2.0	<2.0	360	<20	<4.0	<4.0	<4.0	417.66	30.31	387.35
MW-5B	11/08/2010	<50	340	<1.0	<2.0	<2.0	<2.0	370	<20	<4.0	<4.0	<4.0	417.66	24.80	392.86
MW-5B	01/25/2011	<480	120	<1.2	<1.2	<1.2	<2.5	210	200	<2.5	<2.5	<2.5	417.66	30.25	387.41
MW-5B	05/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	72	<10	<1.0	<1.0	<1.0	417.66	22.41	395.25
MW-5B	07/26/2011	150 e	<50	0.70	0.84	0.61	2.0	26	<10	<1.0	<1.0	<1.0	417.66	24.17	393.49
MW-5B	11/03/2011												417.66	31.59	386.07
MW-5B	11/04/2011	<47	250	<0.50	<0.50	<0.50	<1.0	290	12 f	<1.0	<1.0	<1.0	417.66		
MW-5B	01/26/2012	120	<50	<0.50	<0.50	<0.50	<1.0	8.8	<10	<0.50	<0.50	<0.50	417.66	33.58	384.08
MW-5B	05/11/2012	81	<50	<0.50	<0.50	<0.50	<1.0	34	<10	<0.50	<0.50	<0.50	417.66	27.19	390.47
MW-5B	08/02/2012	<48	290 i	<1.0	<1.0	<1.0	<2.0	260	<20	<1.0	<1.0	<1.0	417.66	32.30	385.36
MW-5B	01/17/2013	110 e	<50	<0.50	<0.50	<0.50	<1.0	12	<10	<0.50	<0.50	<0.50	417.66	30.82	386.84
MW-5B	08/09/2013	69 e	190	<0.50	<0.50	<0.50	2.0	180	<10	<0.50	<0.50	<0.50	417.66	33.94	383.72
MW-5B	02/10/2014	73	140 i	<0.50	<0.50	<0.50	<1.0	190	<10	<0.50	<0.50	<0.50	417.66	35.90	381.76
MW-5B	07/29/2014												417.66	35.13	382.53
MW-5B	07/30/2014	180 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.66		
MW-5B	02/02/2015	51	<50	<0.50	<0.50	<0.50	<1.0	8.6	<10	<0.50	<0.50	<0.50	417.66	31.97	385.69
MW-5B	07/30/2015	110 e	83 i	<0.50	<0.50	<0.50	<1.0	77	<10	<0.50	<0.50	<0.50	417.66	34.83	382.83
MW-5B	03/17/2016	160	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<50	<2.0	<2.0	<2.0	417.66	27.44	390.22
MW-5C	02/07/2008												417.10	33.97	383.13
MW-5C	02/15/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	360	97	<2.0	<2.0	<2.0	417.10	34.25	382.85
MW-5C	05/27/2008	<50	350	<2.5	<5.0	<5.0	<5.0	290	<50	<10	<10	<10	417.10	33.97	383.13

Well ID	Date	TPHd	TPHg	в	т	Е	х	МТВЕ	ТВА	DIPE	ETBE	TAME	тос	Depth to Water	GW Elevation
		(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)										
MW-5C	08/05/2008	<50	210	<1.0	<2.0	<2.0	<2.0	180	<20	<4.0	<4.0	<4.0	417.10	37.30	379.80
MW-5C	11/17/2008	<50	180	<1.0	<2.0	<2.0	<2.0	120	<20	<4.0	<4.0	<4.0	417.10	40.23	376.87
MW-5C	02/05/2009	<50	180	<1.0	<2.0	<2.0	<2.0	150	<20	<4.0	<4.0	<4.0	417.10	39.70	377.40
MW-5C	05/07/2009	<50	150	<1.0	<2.0	<2.0	<2.0	160	<20	<4.0	<4.0	<4.0	417.10	33.91	383.19
MW-5C	08/20/2009	<50	150	<1.0	<2.0	<2.0	<2.0	130	<20	<4.0	<4.0	<4.0	417.10	38.82	378.28
MW-5C	11/10/2009	<50	190	<1.0	<2.0	<2.0	<2.0	170	<20	<4.0	<4.0	<4.0	417.10	40.44	376.66
MW-5C	02/15/2010	<50	150	<0.50	<1.0	<1.0	<1.0	160	<10	<2.0	<2.0	<2.0	417.10	35.41	381.69
MW-5C	03/19/2010												417.10	33.08	384.02
MW-5C	05/07/2010	<50	110	<0.50	<1.0	<1.0	<1.0	150	<10	<2.0	<2.0	<2.0	417.10	31.84	385.26
MW-5C	08/09/2010	<50	160	0.73	<1.0	<1.0	<1.0	190	<10	<2.0	<2.0	<2.0	417.10	35.79	381.31
MW-5C	11/08/2010	66 b	150	<0.50	<1.0	<1.0	<1.0	160	<10	<2.0	<2.0	<2.0	417.10	39.50	377.60
MW-5C	01/25/2011	<480	<50	<0.50	<0.50	<0.50	<1.0	83	91	<1.0	<1.0	<1.0	417.10	35.28	381.82
MW-5C	05/23/2011	<47	160 e	<0.50	<0.50	<0.50	<1.0	210	<10	<1.0	<1.0	<1.0	417.10	27.98	389.12
MW-5C	07/26/2011	110 e	210 e	<0.50	0.59	<0.50	1.7	190	14 f	<1.0	<1.0	<1.0	417.10	28.64	388.46
MW-5C	11/03/2011												417.10	36.92	380.18
MW-5C	11/04/2011	<47	170	<0.50	<0.50	<0.50	<1.0	200	<10	<1.0	<1.0	<1.0	417.10		
MW-5C	01/26/2012	53	150	<0.50	0.54	0.82	6.0	160	<10	<0.50	<0.50	<0.50	417.10	37.77	379.33
MW-5C	05/11/2012	<48	120	<0.50	<0.50	<0.50	<1.0	180	<10	<0.50	<0.50	<0.50	417.10	32.45	384.65
MW-5C	08/02/2012	<48	180 i	<0.50	<0.50	<0.50	<1.0	190	<10	<0.50	<0.50	<0.50	417.10	36.81	380.29
MW-5C	01/17/2013	<55	140 i	0.85	0.74	0.75	5.6	130	55	<0.50	<0.50	<0.50	417.10	35.31	381.79
MW-5C	08/09/2013	78 e	150	<0.50	0.60	0.57	2.5	140	<10	<0.50	<0.50	<0.50	417.10	39.40	377.70
MW-5C	02/10/2014	<48	150 i	<0.50	<0.50	<0.50	<1.0	200	<10	<0.50	<0.50	<0.50	417.10	40.60	376.50
MW-5C	07/29/2014	<48	110 i	<0.50	<0.50	<0.50	<1.0	130	<10	<0.50	<0.50	<0.50	417.10	39.67	377.43
MW-5C	02/02/2015	120	170 i	<0.50	<0.50	<0.50	<1.0	130	<10	<0.50	<0.50	<0.50	417.10	36.63	380.47
MW-5C	07/30/2015	<50	140 i	<0.50	<0.50	<0.50	<1.0	130	<10	<0.50	<0.50	<0.50	417.10	38.82	378.28
MW-5C	03/17/2016	92	<250	<5.0	<5.0	<5.0	<5.0	210	<250	<10	<10	<10	417.10	32.39	384.71
MW-6	02/28/2006												422.50	23.55	398.95

Well ID	Date	TPHd	TPHg	в	т	Е	х	MTBE	ТВА	DIPE	ETBE	TAME	тос	Depth to Water	GW Elevation
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-6	03/03/2006	104 a	<50.0	<0.500	<0.500	<0.500	<0.500	4.93	<10.0	<0.500	<0.500	<0.500	422.50	23.30	399.20
MW-6	05/19/2006	<46.9 a	<50.0	<0.500	<0.500	<0.500	<0.500	5.76	<10.0	<0.500	<0.500	<0.500	422.50	20.31	402.19
MW-6	08/24/2006	<47.2	<50.0	<0.500	<0.500	<0.500	<0.500	0.870	<10.0	<0.500	<0.500	<0.500	422.50	23.69	398.81
MW-6	11/02/2006												422.50	28.51	393.99
MW-6	01/29/2007	<50	<50	<0.50	<0.50	<0.50	<1.0	1.7	<5.0	<2.0	<2.0	<2.0	422.50	27.08	395.42
MW-6	06/05/2007	97	<50 c	<0.50	<1.0	<1.0	<1.0	1.1	<10	<2.0	<2.0	<2.0	422.50	25.77	396.73
MW-6	08/27/2007	Well dry											422.50		
MW-6	11/30/2007	Well dry											422.50		
MW-6	02/15/2008	<50 a	<50 c	<0.50	<1.0	<1.0	<1.0	9.0	<10	<2.0	<2.0	<2.0	422.50	25.56	396.94
MW-6	05/15/2008	Well destr	oyed												
M\\/_7	08/21/2006												414 35	25 84	388 51
M\\/_7	08/24/2006	~47.2	~50.0	~0 500	~0 500	<0 500	~0 500	2.63	751	~0 500	<0.500	<0 500	414.35	26.21	388 14
M\\/_7	11/02/2006	Well dry	<00.0	<0.000	<0.000	<0.000	<0.000	2.00		<0.000	<0.000	<0.000	414.35		
M\\/-7	01/29/2007	Well dry											414.35		
MW-7	06/05/2007	Well dry											414.35		
MW-7	08/27/2007	Well dry											414.35		
MW-7	11/30/2007	Well dry											414 35		
MW-7	02/15/2008	Insufficien	t water										414.35	27.95	386.40
MW-7	05/27/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	2.0	<10	<2.0	<2.0	<2.0	414.35	26.93	387.42
MW-7	08/05/2008	Well drv											414.35		
MW-7	11/17/2008	Well drv											414.35		
MW-7	02/05/2009	Well drv											414.35		
MW-7	05/07/2009	Insufficien	t water										414.35	27.96	386.39
MW-7	08/20/2009	Well drv											414.35		
MW-7	11/10/2009	Well drv											414.35		
MW-7	02/15/2010	Well drv											414.35		
MW-7	03/19/2010	`											414.35	27.55	386.80

	Dete	трца	TDUa	в	-	-	v	MTDE			стре	ТАМЕ	TOC	Depth to	GW
weil iD	Date		тепу (//)	Б	I / // \		^							water	
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-7	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	414.35	25.02	389.33
MW-7	08/09/2010	Well dry											414.35		
MW-7	11/08/2010	Well dry											414.35		
MW-7	01/25/2011	Well dry											414.35		
MW-7	02/16/2011	Well destr	oyed												
MW-8	08/21/2006												414.54	23.02	391.52
MW-8	08/24/2006	74.5	110	<0.500	<0.500	<0.500	<0.500	4.62	6,610	<0.500	<0.500	<0.500	414.54	23.17	391.37
MW-8	11/02/2006	96	92	<0.50	<0.50	<0.50	<1.0	1.4	2,300	<2.0	<2.0	<2.0	414.54	27.69	386.85
MW-8	01/29/2007	<50	<50	<0.50	<0.50	<0.50	<1.0	0.51	350	<2.0	<2.0	<2.0	414.54	26.40	388.14
MW-8	06/05/2007	120	<50 c	<0.50	<1.0	<1.0	<1.0	0.48 d	290	<2.0	<2.0	<2.0	414.54	25.17	389.37
MW-8	08/27/2007	Well dry											414.54		
MW-8	11/30/2007	Well dry											414.54		
MW-8	02/15/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	414.54	24.66	389.88
MW-8	05/27/2008	<50	58	<0.50	<1.0	<1.0	<1.0	1.4	520	<2.0	<2.0	<2.0	414.54	25.98	388.56
MW-8	08/05/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	34	<2.0	<2.0	<2.0	414.54	26.62	387.92
MW-8	11/17/2008	Well dry											414.54		
MW-8	02/05/2009	Insufficien	t water										414.54	28.62	385.92
MW-8	05/07/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	414.54	24.20	390.34
MW-8	08/20/2009	Insufficien	t water										414.54	28.31	386.23
MW-8	11/10/2009	Insufficien	t water										414.54	28.52	386.02
MW-8	02/15/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	414.54	25.93	388.61
MW-8	03/19/2010												414.54	23.89	390.65
MW-8	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	15	<2.0	<2.0	<2.0	414.54	22.32	392.22
MW-8	08/09/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	1.5	510	<2.0	<2.0	<2.0	414.54	26.31	388.23
MW-8	11/08/2010	Well dry											414.54		
MW-8	01/25/2011	<470	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	414.54	25.96	388.58
MW-8	05/23/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	2.0	600	<1.0	<1.0	<1.0	414.54	20.12	394.42

Well ID	Date	TPHd	TPHg	в	т	Е	Х	MTBE	ТВА	DIPE	ETBE	TAME	тос	Depth to Water	GW Elevation
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-8	07/26/2011	<49	<200	<2.0	<2.0	<2.0	<4.0	5.4	2,800	<4.0	<4.0	<4.0	414.54	21.15	393.39
MW-8	11/03/2011												414.54	27.15	387.39
MW-8	11/04/2011	940	<50	<0.50	<0.50	<0.50	<1.0	1.3	210	<1.0	<1.0	<1.0	414.54		
MW-8	01/26/2012	270	<50	<0.50	<0.50	<0.50	<1.0	0.95	<10	<0.50	<0.50	<0.50	414.54	27.82	386.72
MW-8	05/11/2012	170	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	414.54	23.40	391.14
MW-8	08/02/2012	250 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	414.54	27.06	387.48
MW-8	01/17/2013	180	150	7.7	5.5	3.9	32	1.1	180	<0.50	<0.50	<0.50	414.54	26.15	388.39
MW-8	08/09/2013	Well dry											414.54		
MW-8	02/10/2014	Well dry											414.54		
MW-8	07/29/2014	Well dry											414.54		
MW-8	02/02/2015	Well dry											414.54		
MW-8	07/30/2015	Well dry											414.54		
MW-8	03/17/2016	54	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<50	<2.0	<2.0	<2.0	414.54	22.86	391.68
MW-8B	02/07/2008												414.81	26.81	388.00
MW-8B	02/15/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	17	65	<2.0	<2.0	<2.0	414.81	26.23	388.58
MW-8B	05/27/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	23	33	<2.0	<2.0	<2.0	414.81	25.51	389.30
MW-8B	08/05/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	11	<10	<2.0	<2.0	<2.0	414.81	28.72	386.09
MW-8B	11/17/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	6.3	<10	<2.0	<2.0	<2.0	414.81	31.66	383.15
MW-8B	02/05/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	5.4	<10	<2.0	<2.0	<2.0	414.81	30.97	383.84
MW-8B	05/07/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	6.4	<10	<2.0	<2.0	<2.0	414.81	25.92	388.89
MW-8B	08/20/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	3.8	<10	<2.0	<2.0	<2.0	414.81	30.13	384.68
MW-8B	11/10/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	2.5	<10	<2.0	<2.0	<2.0	414.81	30.28	384.53
MW-8B	02/15/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	2.2	<10	<2.0	<2.0	<2.0	414.81	27.54	387.27
MW-8B	03/19/2010												414.81	25.36	389.45
MW-8B	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	1.9	<10	<2.0	<2.0	<2.0	414.81	23.18	391.63
MW-8B	08/09/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	2.0	<10	<2.0	<2.0	<2.0	414.81	27.90	386.91
MW-8B	11/08/2010	58 b	<50	<0.50	<1.0	<1.0	<1.0	1.4	<10	<2.0	<2.0	<2.0	414.81	31.22	383.59

Well ID	Date	TPHd	TPHg	в	т	Е	Х	MTBE	ТВА	DIPE	ETBE	TAME	тос	Depth to Water	GW Elevation
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-8B	01/25/2011	<500	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	414.81	27.44	387.37
MW-8B	05/23/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	1.4	<10	<1.0	<1.0	<1.0	414.81	21.18	393.63
MW-8B	07/26/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	1.4	<10	<1.0	<1.0	<1.0	414.81	21.65	393.16
MW-8B	11/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	414.81	28.83	385.98
MW-8B	01/26/2012	62	<50	<0.50	<0.50	<0.50	<1.0	1.3	<10	<0.50	<0.50	<0.50	414.81	29.30	385.51
MW-8B	05/11/2012	<48	<50	<0.50	<0.50	<0.50	<1.0	0.79	<10	<0.50	<0.50	<0.50	414.81	25.10	389.71
MW-8B	08/02/2012	66 e	<50	<0.50	<0.50	<0.50	<1.0	0.78	<10	<0.50	<0.50	<0.50	414.81	27.96	386.85
MW-8B	01/17/2013	<51	<50	<0.50	<0.50	<0.50	<1.0	0.63	<10	<0.50	<0.50	<0.50	414.81	28.40	386.41
MW-8B	08/09/2013	150 e	<50	<0.50	<0.50	0.59	2.6	0.59	<10	<0.50	<0.50	<0.50	414.81	30.49	384.32
MW-8B	02/10/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	414.81	30.92	383.89
MW-8B	07/29/2014	68	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	414.81	31.80	383.01
MW-8B	02/02/2015	<47	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	414.81	28.67	386.14
MW-8B	07/30/2015	68 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	414.81	29.93	384.88
MW-8B	03/17/2016	<48	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<50	<2.0	<2.0	<2.0	414.81	25.56	389.25
MW-9	08/21/2006												412.69	27.75	384.94
MW-9	08/24/2006	69.9	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	86.8	<0.500	<0.500	<0.500	412.69	28.35	384.34
MW-9	11/02/2006		<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	412.69	28.43	384.26
MW-9	01/29/2007	Well dry											412.69		
MW-9	06/05/2007	Insufficien	t water										412.69	28.72	383.97
MW-9	08/27/2007	Well dry											412.69		
MW-9	11/30/2007	Well dry											412.69		
MW-9	02/15/2008	Insufficien	t water										412.69	28.00	384.69
MW-9	05/27/2008		<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	412.69	27.93	384.76
MW-9	08/05/2008	Insufficien	t water										412.69	28.40	384.29
MW-9	11/17/2008	Well dry											412.69		
MW-9	02/05/2009	Insufficien	t water										412.69	28.54	384.15
MW-9	05/07/2009	Insufficien	t water										412.69	28.41	384.28

Well ID	Date	TPHd	TPHg	в	т	Е	x	MTBE	ТВА	DIPE	ETBE	TAME	тос	Depth to Water	GW Elevation
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-9	08/20/2009	Well dry											412.69		
MW-9	11/10/2009	Well dry											412.69		
MW-9	02/15/2010	Well dry											412.69		
MW-9	03/19/2010												412.69	28.75	383.94
MW-9	05/07/2010	Insufficien	t water										412.69	28.35	384.34
MW-9	08/09/2010	330 b	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	412.69	28.03	384.66
MW-9	11/08/2010	730 b	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	412.69	28.50	384.19
MW-9	01/25/2011	Well dry											412.69		
MW-9	02/16/2011	Well destr	oyed												
MW-10	08/21/2006												419.48	23.90	395.58
MW-10	08/24/2006	100	626	1.04	<0.500	1.22	<0.500	12.4	5,740	<0.500	<0.500	<0.500	419.48	24.02	395.46
MW-10	11/02/2006												419.48	28.50	390.98
MW-10	01/29/2007	<50	91	<0.50	<0.50	<0.50	<1.0	4.9	1,900	<2.0	<2.0	<2.0	419.48	27.30	392.18
MW-10	06/05/2007	150	82 c	<0.50	<1.0	<1.0	<1.0	1.3	540	<2.0	<2.0	<2.0	419.48	26.09	393.39
MW-10	08/27/2007	Well dry											419.48		
MW-10	11/30/2007	Well dry											419.48		
MW-10	02/15/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	1.6	500	<2.0	<2.0	<2.0	419.48	25.58	393.90
MW-10	05/22/2008	Well destr	oyed												
MW-11	08/21/2006	Well dry											409.69		
MW-11	08/24/2006	Well dry											409.69		
MW-11	11/02/2006	Well dry											409.69		
MW-11	01/29/2007	Well dry											409.69		
MW-11	06/05/2007	Well dry											409.69		
MW-11	08/27/2007	Well dry											409.69		
MW-11	11/30/2007	Well dry											409.69		
MW-11	02/15/2008	Well dry											409.69		

Well ID	Date	трна	ТРНа	в	т	F	Y	MTRE	TRΔ		FTRE	таме	тос	Depth to Water	GW Elevation
Weilind	Date	(ua/L)	(ua/L)	(ua/L)	י (עמ/L)	L (ua/L)	~ (ua/L)						(ft MSL)	(ft TOC)	
		(µg/⊏)	(µg/⊏)	(µg/⊏)	(µ9/⊏)	(µg/⊏)	(µ9/⊏)	(µg/⊏)	(µg/⊏)	(µg/⊏)	(P9/C)	(µg/⊏)		(11100)	
MW-11	05/27/2008	Well dry											409.69		
MW-11	08/05/2008	Well dry											409.69		
MW-11	11/17/2008	Well dry											409.69		
MW-11	02/05/2009	Well dry											409.69		
MW-11	05/07/2009	Well dry											409.69		
MW-11	08/20/2009	Well dry											409.69		
MW-11	11/10/2009	Well dry											409.69		
MW-11	02/15/2010	Well dry											409.69		
MW-11	03/19/2010	Well dry											409.69		
MW-11	05/07/2010	Well dry											409.69		
MW-11	08/09/2010	Well dry											409.69		
MW-11	11/08/2010	Well dry											409.69		
MW-11	01/25/2011	Well dry											409.69		
MW-11	02/17/2011	Well destr	oyed												
MW-11B	02/07/2008												409.03	31.47	377.56
MW-11B	02/15/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	31.53	377.50
MW-11B	05/27/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	30.83	378.20
MW-11B	08/05/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	33.51	375.52
MW-11B	11/17/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	35.80	373.23
MW-11B	02/05/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	36.11	372.92
MW-11B	05/07/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	31.21	377.82
MW-11B	08/20/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	34.68	374.35
MW-11B	11/10/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	35.74	373.29
MW-11B	02/15/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	32.30	376.73
MW-11B	03/19/2010												409.03	30.54	378.49
MW-11B	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	28.62	380.41
MW-11B	08/09/2010	<50	<50	5.6	<1.0	<1.0	1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	32.62	376.41

Wall ID	Data	трца	TDUa	в	т	F	v	MTRE	ТРА		ETRE	таме	тос	Depth to	GW Elevation
Weil ID	Date	(µg/L)	(µg/L)	μg/L)	י (µg/L)	с (µg/L)	 (μg/L)	(µg/L)	(μg/L)	(µg/L)	μg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-11B	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	35.95	373.08
MW-11B	01/25/2011	<470	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	409.03	32.92	376.11
MW-11B	05/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	409.03	27.28	381.75
MW-11B	07/26/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	409.03	27.78	381.25
MW-11B	11/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	409.03	33.50	375.53
MW-11B	01/26/2012	<47	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	409.03	34.95	374.08
MW-11B	05/11/2012	77	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	409.03	30.70	378.33
MW-11B	08/02/2012	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	409.03	33.20	375.83
MW-11B	01/17/2013	49	67	3.3	2.6	1.7	13	<0.50	<10	<0.50	<0.50	<0.50	409.03	33.30	375.73
MW-11B	08/09/2013	Insufficier	nt water										409.03	37.50	371.53
MW-11B	02/10/2014	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	409.03	36.83	372.20
MW-11B	07/29/2014	Insufficier	nt water										409.03	37.47	371.56
MW-11B	02/02/2015	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	409.03	34.65	374.38
MW-11B	07/30/2015	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	409.03	36.22	372.81
MW-11B	03/17/2016	<49	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<50	<2.0	<2.0	<2.0	409.03	30.87	378.16
MW-12	02/07/2008												411.18	31.10	380.08
MW-12	02/15/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	31.22	379.96
MW-12	05/27/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	30.53	380.65
MW-12	08/05/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	33.29	377.89
MW-12	11/17/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	35.20	375.98
MW-12	02/05/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	35.12	376.06
MW-12	05/07/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	30.81	380.37
MW-12	08/20/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	34.21	376.97
MW-12	11/10/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	34.75	376.43
MW-12	02/15/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	31.99	379.19
MW-12	03/19/2010												411.18	30.34	380.84
MW-12	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	28.58	382.60

Well ID	Date	TPHd	TPHg	в	т	Е	х	MTBE	ТВА	DIPE	ETBE	TAME	тос	Depth to Water	GW Elevation
		(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)										
MW-12	08/09/2010	<50	<50	6.0	<1.0	<1.0	1.2	<1.0	<10	<2.0	<2.0	<2.0	411.18	32.42	378.76
MW-12	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	35.18	376.00
MW-12	01/25/2011	<490	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	411.18	32.52	378.66
MW-12	05/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	411.18	27.10	384.08
MW-12	07/26/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	411.18	27.36	383.82
MW-12	11/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	411.18	33.39	377.79
MW-12	01/26/2012	<47	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	34.30	376.88
MW-12	05/11/2012	<47	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	30.35	380.83
MW-12	08/02/2012	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	33.00	378.18
MW-12	01/17/2013	57	84	3.9	3.1	2.3	18	<0.50	<10	<0.50	<0.50	<0.50	411.18	34.79	376.39
MW-12	08/09/2013	56	85	0.57	1.6	2.2	10	<0.50	<10	<0.50	<0.50	<0.50	411.18	35.51	375.67
MW-12	02/10/2014	<49	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	35.52	375.66
MW-12	07/29/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	36.14	375.04
MW-12	02/02/2015	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	33.92	377.26
MW-12	07/30/2015	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	35.28	375.90
MW-12	03/17/2016	<49	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<50	<2.0	<2.0	<2.0	411.18	30.34	380.84
MW-13	05/13/2011												415.77	24.60	391.17
MW-13	05/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	415.77	24.57	391.20
MW-13	07/26/2011	<49	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	415.77	26.60	389.17
MW-13	11/03/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	57	<1.0	<1.0	<1.0	415.77	34.62	381.15
MW-13	01/26/2012	<49	<50	<0.50	<0.50	<0.50	<1.0	2.0	490	<0.50	<0.50	<0.50	415.77	36.25	379.52
MW-13	05/11/2012	<47	<50	<0.50	<0.50	<0.50	<1.0	0.76	<10	<0.50	<0.50	<0.50	415.77	30.22	385.55
MW-13	08/02/2012	57 e	<50	<0.50	<0.50	<0.50	<1.0	0.98	<10	<0.50	<0.50	<0.50	415.77	35.32	380.45
MW-13	01/17/2013	57	<50	<0.50	<0.50	<0.50	<1.0	1.3	<10	<0.50	<0.50	<0.50	415.77	33.30	382.47
MW-13	08/09/2013	<50	<50	<0.50	<0.50	<0.50	<1.0	1.3	<10	<0.50	<0.50	<0.50	415.77	38.48	377.29
MW-13	02/10/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	2.2	<10	<0.50	<0.50	<0.50	415.77	39.49	376.28
MW-13	07/29/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	1.5	<10	<0.50	<0.50	<0.50	415.77	39.80	375.97

Wall ID	Data	трца	трца	в	т	F	v	MTRE	твл		ETRE	тлме	тос	Depth to Water	GW Elevation
Weil ID	Date		(ua/L)	(ug/L)	י (עמ/L)	L (ua/L)	~ (ua/L)								
		(µg/∟)	(µg/∟)	(µg/∟)	(µg/∟)	(µg/∟)	(µg/∟)	(µg/∟)	(µg/∟)	(µg/∟)	(µg/∟)	(µg/∟)		(11100)	
MW-13	02/02/2015	<54	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.77	35.24	380.53
MW-13	07/30/2015	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.77	37.70	378.07
MW-13	03/17/2016	260	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<50	<2.0	<2.0	<2.0	415.77	30.82	384.95
MW-13B	05/13/2011												415.39	23.40	391.99
MW-13B	05/23/2011	210	<50	<0.50	<0.50	<0.50	<1.0	17	<10	<1.0	<1.0	<1.0	415.39	23.04	392.35
MW-13B	07/26/2011	230	<50	<0.50	<0.50	<0.50	<1.0	42	<10	<1.0	<1.0	<1.0	415.39	25.01	390.38
MW-13B	11/03/2011	80	<50	<0.50	<0.50	<0.50	<1.0	2.0	<10	<1.0	<1.0	<1.0	415.39	31.49	383.90
MW-13B	01/26/2012	99	66	<0.50	<0.50	<0.50	<1.0	56	<10	<0.50	<0.50	<0.50	415.39	36.08	379.31
MW-13B	05/11/2012	320	<50	<0.50	<0.50	<0.50	<1.0	24	<10	<0.50	<0.50	<0.50	415.39	31.83	383.56
MW-13B	08/02/2012	1,200	140	<0.50	<0.50	<0.50	<1.0	1.7	<10	<0.50	<0.50	<0.50	415.39	33.73	381.66
MW-13B	01/17/2013	470	66 i	<0.50	<0.50	<0.50	<1.0	63	24	<0.50	<0.50	<0.50	415.39	31.70	383.69
MW-13B	08/09/2013	<48	180	<0.50	<0.50	<0.50	<1.0	180	<10	<0.50	<0.50	<0.50	415.39	36.51	378.88
MW-13B	02/10/2014	51	180 i	<0.50	<0.50	<0.50	<1.0	230	<10	<0.50	<0.50	<0.50	415.39	37.47	377.92
MW-13B	07/29/2014	79	<50	<0.50	<0.50	<0.50	<1.0	1.5	<10	<0.50	<0.50	<0.50	415.39	37.11	378.28
MW-13B	02/02/2015	120	50	<0.50	<0.50	<0.50	<1.0	13	<10	<0.50	<0.50	<0.50	415.39	33.34	382.05
MW-13B	07/30/2015	1,600 e	140 i	<0.50	<0.50	<0.50	<1.0	140	<10	<0.50	<0.50	<0.50	415.39	35.81	379.58
MW-13B	03/17/2016	110	<50	<1.0	<1.0	<1.0	<1.0	26	<50	<2.0	<2.0	<2.0	415.39	27.38	388.01
MW-13C	05/13/2011												415.73	26.55	389.18
MW-13C	05/23/2011	52	94	<0.50	<0.50	<0.50	<1.0	140	44	<1.0	<1.0	<1.0	415.73	26.24	389.49
MW-13C	07/26/2011	54	<50	<0.50	<0.50	<0.50	<1.0	5.8	<10	<1.0	<1.0	<1.0	415.73	27.59	388.14
MW-13C	11/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	5.7	<10	<1.0	<1.0	<1.0	415.73	33.62	382.11
MW-13C	01/26/2012	48	<50	<0.50	<0.50	<0.50	<1.0	13	<10	<0.50	<0.50	<0.50	415.73	43.24	372.49
MW-13C	05/11/2012	1,000	140	<0.50	<0.50	<0.50	<1.0	160	<10	<0.50	<0.50	<0.50	415.73	35.62	380.11
MW-13C	08/02/2012	450 e	100 e	<0.50	<0.50	<0.50	<1.0	80	<10	<0.50	<0.50	<0.50	415.73	34.54	381.19
MW-13C	01/17/2013	92	130 i	<0.50	<0.50	<0.50	<1.0	140	49	<0.50	<0.50	<0.50	415.73	36.20	379.53
MW-13C	08/09/2013	<48	140	<0.50	<0.50	<0.50	<1.0	150	<10	<0.50	<0.50	<0.50	415.73	38.50	377.23

Well ID	Date	TPHd	TPHg	в	т	Е	х	MTBE	ТВА	DIPE	ETBE	TAME	тос	Depth to Water	GW Elevation
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)
MW-13C	02/10/2014	<47	150 i	<0.50	<0.50	<0.50	<1.0	180	<10	<0.50	<0.50	<0.50	415.73	38.52	377.21
MW-13C	07/29/2014	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.73	42.58	373.15
MW-13C	02/02/2015	53	270 i	<0.50	<0.50	<0.50	<1.0	240	<10	<0.50	<0.50	<0.50	415.73	36.68	379.05
MW-13C	07/30/2015	330 e	140 i	<0.50	<0.50	<0.50	<1.0	130	17	<0.50	<0.50	<0.50	415.73	37.53	378.20
MW-13C	03/17/2016	350	<100	<2.0	<2.0	<2.0	<2.0	160	<100	<4.0	<4.0	<4.0	415.73	31.16	384.57
MW-14B	05/11/2011												413.33	20.37	392.96
MW-14B	05/23/2011	58	<50	<0.50	<0.50	<0.50	<1.0	4.5	<10	<1.0	<1.0	<1.0	413.33	20.19	393.14
MW-14B	07/26/2011	84	<50	<0.50	<0.50	<0.50	<1.0	4.9	<10	<1.0	<1.0	<1.0	413.33	21.47	391.86
MW-14B	11/03/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	413.33	28.18	385.15
MW-14B	01/26/2012	2,500	<50	<0.50	<0.50	<0.50	<1.0	2.5	<10	<0.50	<0.50	<0.50	413.33	29.74	383.59
MW-14B	05/11/2012	63	<50	<0.50	<0.50	<0.50	<1.0	1.1	<10	<0.50	<0.50	<0.50	413.33	26.00	387.33
MW-14B	08/02/2012	650 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	413.33	28.86	384.47
MW-14B	01/17/2013	130	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	413.33	28.10	385.23
MW-14B	08/09/2013	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	413.33	35.49	377.84
MW-14B	02/10/2014	98	<50	<0.50	<0.50	<0.50	<1.0	0.70	<10	<0.50	<0.50	<0.50	413.33	31.35	381.98
MW-14B	07/29/2014												413.33	31.73	381.60
MW-14B	07/30/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	0.92	<10	<0.50	<0.50	<0.50	413.33		
MW-14B	02/02/2015	160	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	413.33	28.54	384.79
MW-14B	07/30/2015	320 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	413.33	30.28	383.05
MW-14B	03/17/2016	480	<50	<1.0	<1.0	<1.0	<1.0	<2.0	<50	<2.0	<2.0	<2.0	413.33	24.28	389.05
MW-14C	05/11/2011	Well com	promised o	during ins	tallation								413.48		
MW-14C	05/23/2011	Well com	promised o	during ins [.]	tallation								413.48		
MW-14C	07/26/2011	81	<50	<0.50	0.71	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	413.48	21.51	391.97
MW-14C	09/09/2011	120	<50	<0.50	<0.50	<0.50	<1.0	30	<10	<1.0	<1.0	<1.0	413.10	29.39	383.71
MW-14C	11/03/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	413.10	33.89	379.21
MW-14C	01/26/2012	600	<50	<0.50	<0.50	<0.50	<1.0	3.2	<10	<0.50	<0.50	<0.50	413.10	33.80	379.30

Groundwater Data Shell-branded Service Station 8999 San Ramon Road, Dublin, California

Well ID	Date	TPHd	TPHa	в	т	Е	х	MTBE	ТВА	DIPE	ETBE	ТАМЕ	тос	Depth to Water	GW Elevation
		(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)										
MW-14C	05/11/2012	85	<50	<0.50	<0.50	<0.50	<1.0	12	<10	<0.50	<0.50	<0.50	413.10	31.94	381.16
MW-14C	08/02/2012	890 e	<50	<0.50	<0.50	<0.50	<1.0	19	<10	<0.50	<0.50	<0.50	413.10	33.02	380.08
MW-14C	01/17/2013	200	<50	<0.50	<0.50	<0.50	<1.0	31	<10	<0.50	<0.50	<0.50	413.10	32.60	380.50
MW-14C	08/09/2013	<48	61	<0.50	<0.50	<0.50	<1.0	47	<10	<0.50	<0.50	<0.50	413.10	31.43	381.67
MW-14C	02/10/2014	<49	<50	<0.50	<0.50	<0.50	<1.0	25	<10	<0.50	<0.50	<0.50	413.10	36.02	377.08
MW-14C	07/29/2014												413.10	37.60	375.50
MW-14C	07/30/2014	180 e	<50	<0.50	<0.50	<0.50	<1.0	37	<10	<0.50	<0.50	<0.50	413.10		
MW-14C	02/02/2015	100	93 i	<0.50	<0.50	<0.50	<1.0	59	<10	<0.50	<0.50	<0.50	413.10	33.61	379.49
MW-14C	07/30/2015	63 e	83 i	<0.50	<0.50	<0.50	<1.0	53	<10	<0.50	<0.50	<0.50	413.10	35.00	378.10
MW-14C	03/17/2016	740	<50	<1.0	<1.0	<1.0	<1.0	45	<50	<2.0	<2.0	<2.0	413.10	31.61	381.49

Notes:

TPHd = Total petroleum hydrocarbons as diesel analyzed by modified EPA Method 8015 with silica gel clean-up unless otherwise noted

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

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260E

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

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

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

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

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

TOC = Top of casing elevation, in feet relative to mean sea level

GW = Groundwater

 μ g/L = Micrograms per liter

ft = Feet

MSL = Mean sea level

< x = Not detected at reporting limit x

--- = Not analyzed or available

Groundwater Data Shell-branded Service Station 8999 San Ramon Road, Dublin, California

														Depth to	GW
Well ID	Date	TPHd	TPHg	В	т	Е	Х	MTBE	TBA	DIPE	ETBE	TAME	тос	Water	Elevation
		(µg/L)	(ft MSL)	(ft TOC)	(ft MSL)										

a = TPHd analyzed without silica gel clean-up.

b = 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.

c = Analyzed by EPA Method 8015B (M)

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

e = Hydrocarbon result partly due to discrete peak(s) in quantitation range

f = Due to the low levels of analyte found in the sample, the analyte was qualitatively identified based on the presence of a single mass ion.

g = Sample received and analyzed without chemical preservation

h = Sample container contained headspace

i = Concentration reported is due to the presence of discrete peak of MTBE.

j = Concentration reported is due to the presence of discrete peak of 2-Methyl-2-propanol.

k = Internal standard (ISTD) response for the following sample was outside control limits. The sample was re-analyzed with concurring results, and the original set

I = The gasoline range organics concentration reported for the sample is due to the presence of a discrete peak of 2-Ethyl-1-hexanol.

Site wells surveyed May 10, 2005 by Mid Coast Engineers

Well MW-6 surveyed March 3, 2006 by Mid Coast Engineers

Wells MW-1R and MW3R surveyed March 22, 2010 by Mid Coast Engineers

Wells MW-1R, MW-2R, MW-2RB, MW-2RC, MW-13, MW-13B, MW-13C, MW-14B, and MW-14C surveyed April 28, 2011 by Virgil Chavez Land Surveying

Well MW-14C surveyed September 12, 2011 by Virgil Chavez Land Surveying

Groundwater analytical data collected and reported on March 17, 2016 was provided by AECOM in in their First Semiannual 2016 Groundwater Monitoring Report.

Historical Grab Groundwater Analytical Data Shell-branded Service Station 8999 San Ramon Road, Dublin, California

Sample ID	Date	Depth (fbg)	TPHd (µg/L)	TPHg (µg/L)	Β (μg/L)	Т (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)
GP-3	5/4/2005	27	540	<500	5.4	<5	<5	<10	980	<50
GP-10	5/4/2005	27	220	<13,000	<130	<130	<130	<250	35,000	120,000
GP-11	5/4/2005	27	2,500	<50,000	<500	<500	<500	<500	89,000	<5,000
GP-12	5/4/2005	27	360	220	4.7	<0.5	<0.5	<1	56	21
CPT-1-44 CPT-1-53	5/26/2005 5/26/2005	44 53	120 180	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1 <1	31 <0.5	5.8 <5
CPT-02-57'	2/22/2005	57	82	<50 170	<0.5	<0.5	<0.5	<0.5	<0.5	<5 26
CPT-02-69' CPT-02-75'	2/22/2006 2/22/2006	69 75		<50 <50	0.57 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	0.56 0.85	<20 <20
CPT-3 45-50 CPT-3 59-63 CPT-3 67-72	7/27/2006 7/27/2006 7/27/2006	50 63 72	160 810	130 730 760	<0.5 <0.5 0.52	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<1.0 <1.0 <1.0	6.5 2,000 2,400	<5.0 170 140
CPT-4 45-49 CPT-4 54-58 CPT-4 64-69	7/26/2006 7/26/2006 7/26/2006	49 58 69	140 170 400	<50 <50 <50	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<1.0 <1.0 <1.0	<0.5 2.8 <0.5	<5.0 <5.0 <5.0
Groundwater	Tier 1 ESL ^a :		100	100	1.0	40	13	20	5.0	12

Notes:

TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015B; before February 22, 2006, analytical method unknown.

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before February 22, 2006, analytical method unknown.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; before February 22, 2006, analytical method unknown.

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B; before February 22, 2006, analytical method unknown.

TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B; before February 22, 2006, analytical method fbg = Feet below grade

 $\mu g/L = Micrograms per liter$

< x = Not detected at reporting limit x

--- = Not analyzed

ESL = Environmental screening level

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

a = San Francisco Bay Regional Water Quality Control Board ESLs from Summary of Groundwater ESLs table, Groundwater Tier 1 ESL in *User's Guide: Derivation and Application of Environmental Screening Levels (ESLs)*, Interim Final, February 2016

Appendix A Site History

Site History

1997 Well Destructions: In November 1997, Cambria Environmental Technology, Inc. (Cambria) destroyed four 4-inch-diameter underground storage tank (UST) observation wells by tremmie pipe grouting. Well destruction details are presented in Cambria's December 16, 1997 *Tank Observation Well Abandonment Report.*

2004 and 2005 Well Surveys: In February 2004, Cambria conducted a well survey of California Department of Water Resources records of driller's reports for water-producing wells within one-half mile of the Site. Cambria also reviewed the California Geotracker database for information on public water supply wells. No water-producing wells of any type (domestic, irrigation, industrial, municipal, or public water supply) were identified. The well survey results were presented in Cambria's December 17, 2004 *Agency Response* letter. In 2005, Delta Consultants (Delta) reviewed Zone 7 Water Agency well records and identified a water supply well 2,500 feet south of the Site. The well was referenced in Delta's July 2005 *Initial Site Conceptual Model*.

2004 Fuel System Upgrade and Over Excavation: From July through September 2004, Wayne Perry Construction, Inc. (Wayne Perry) upgraded fuel dispensers and piping. Wayne Perry replaced the dispensers and subsequently removed and replaced all fuel piping. On July 30, 2004, Cambria collected seven soil samples (D-1 through D-7) from beneath the dispensers. The soil samples contained up to 170 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as diesel (TPHd), 4,700 mg/kg total petroleum hydrocarbons as gasoline (TPHg), 130 mg/kg toluene, 57 mg/kg ethylbenzene, 440 mg/kg total xylenes, 9.0 mg/kg methyl tertiary-butyl ether (MTBE), and 20 mg/kg tertiary-butyl alcohol (TBA). Based on these results, Shell Oil Products US (Shell) submitted a UST Unauthorized Release (Leak)/Contamination Site Report (URR) dated August 3, 2004.

On August 25, 2004, Cambria collected eight samples (P-1 through P-8) of native soil beneath the former product piping at depths between 3.5 and 5 feet below grade (fbg). Samples collected from beneath the product piping contained up to 28 mg/kg TPHd, 210 mg/kg TPHg, 0.018 mg/kg toluene, 1.0 mg/kg total xylenes, 4.6 mg/kg MTBE, and 8.4 mg/kg TBA. Separate-phase hydrocarbons (SPHs) were observed beneath geo-textile fabric near sample location P-6-5.0, at the northeastern-most corner of the original fuel piping layout. Wayne Perry removed between 15 and 20 gallons of SPHs and water from the trench. Based on the observation of SPHs, Shell submitted a second URR dated August 26, 2004.

Following the observation of SPHs, Cambria collected 13 trench bottom and sidewall samples (SW-1 through SW-4, EB-1-7.5', and T-1 through T-4). Up to 9,300 mg/kg TPHd, 3,900 mg/kg TPHg, 32 mg/kg toluene, 7.4 mg/kg ethylbenzene, 44 mg/kg total xylenes, 0.25 mg/kg MTBE, and 0.34 mg/kg TBA were detected in the trench bottom and sidewall soil samples. At the request of Alameda County Environmental Health (ACEH), Wayne Perry excavated a 10-by-10-foot area to 7.5 fbg in the area where SPHs were previously observed. During the excavation, no additional SPHs were observed.

Based on trench bottom and sidewall soil sample analytical results, Wayne Perry over excavated the product trenches and dispenser locations and over excavated a 10-by-10-foot area to 5 fbg in the vicinity of the southeastern-most dispenser (D-7). All pea gravel and geo-textile fabric were removed from the piping trenches. The trenches were widened to between 3 and 4 feet horizontally and deepened 1 to 2 feet vertically in some locations. Cambria then collected 23 trench excavation bottom samples (TX-1 through TX-17). Up to 1,200 mg/kg TPHd, 2,000 mg/kg TPHg, 11 mg/kg toluene, 29 mg/kg ethylbenzene, 180 mg/kg total xylenes, 1.2 mg/kg MTBE, and 7.1 mg/kg TBA were detected in the over-excavation soil

samples. The laboratory noted that the hydrocarbons reported as TPHd and TPHg did not match the laboratory's standards for diesel and gasoline, respectively.

Based on a review of sampling results with ACEH, Cambria collected 10 additional sidewall confirmation samples (SW-4 through SW-14) above a clay layer in areas where impacted soil appeared to remain in the sidewall. Up to 16,000 mg/kg TPHd, 8,500 mg/kg TPHg, 0.019 mg/kg ethylbenzene, 0.11 mg/kg total xylenes, 0.38 mg/kg MTBE, and 170 mg/kg TBA were detected in the sidewall confirmation soil samples.

Cambria collected an SPH sample (FP-W) from the trench at the northeastern-most corner of the original fuel piping layout which Shell determined to be severely weathered unleaded gasoline with no fuel oxygenates. In addition, Cambria subsequently inspected two remaining large-diameter UST backfill wells for SPHs and found none.

Approximately 225 tons of soil were removed and disposed off Site, and 4 gallons of SPHs were removed and recycled. Cambria's October 13, 2004 *Dispenser and Piping Upgrade and Over-Excavation Sampling Report* presents the results of fuel system upgrade and over excavation, and Cambria's December 17, 2004 *Agency Response* letter provides additional details of this work.

2005 Subsurface Investigation: In May 2005, Delta drilled 13 Geoprobe^{so} borings (GP-1 through GP-3 and GP-5 through GP-14), 1 cone penetrometer test (CPT) boring (CPT-1), and 5 groundwater monitoring wells (MW-1 through MW-5). Soil samples from the Geoprobe^{so} borings contained up to 380 mg/kg TPHd, 1,000 mg/kg TPHg, 0.031 mg/kg benzene, 3.3 mg/kg toluene, 10 mg/kg ethylbenzene, 76 mg/kg total xylenes, 20 mg/kg MTBE, and 13 mg/kg TBA. Grab groundwater samples collected from GP-3, GP-10 through GP-12, and CPT-1 contained up to 2,500 micrograms per liter (μg/L) TPHd, 220 μg/L TPHg, 5.4 μg/L benzene, 89,000 μg/L MTBE, and 120,000 μg/L TBA. Soil samples from the well borings contained up to 2.8 mg/kg TPHd, 0.026 mg/kg total xylenes, 17 mg/kg MTBE, and 5.9 mg/kg TBA. Delta's July 2005 electronic *Initial Site Conceptual Model* included investigation data and logs.

2006 Subsurface Investigation: In February and July 2006, Delta drilled three CPT borings to collect grab groundwater samples and installed six groundwater monitoring wells (MW-6 through MW-11). Grab groundwater samples from the CPT borings contained up to 810 µg/L TPHd, 760 µg/L TPHg, 0.80 µg/L benzene, 2,400 µg/L MTBE, and 170 µg/L TBA. Soil samples from the well borings contained up to 1.4 mg/kg TPHd, 3.8 mg/kg TPHg, 1.4 mg/kg MTBE, and 0.2 mg/kg TBA. Delta's September 29, 2006 *Soil and Groundwater Investigation and Monitoring Well Installation Report* provides investigation details.

2006 Pump Test and Dual-Phase Extraction (DPE) Test: In March 2006, Delta conducted a pump test and a DPE test using well MW-1. Delta estimated the sustained groundwater pumping rate for MW-1 at less than 0.2 gallon per minute using groundwater extraction (GWE) or DPE. Delta's *Progress Report – April 2006* summarizes the test results and states that GWE is not a viable option for Site remediation.

2007 Subsurface Investigation: In December 2007, Delta installed one groundwater monitoring well (MW-12).

2008 Well Destructions: In May 2008, Delta destroyed six groundwater monitoring wells (MW-1 through MW-4, MW-6, and MW-10) by pressure grouting prior to station remodeling. The well destructions are detailed in Delta's June 9, 2008 *Monitoring Well Destruction Report*.

2010 Subsurface Investigation: In February 2010, Delta installed two groundwater monitoring wells (MW-1R and MW-3R) to replace wells destroyed prior to station remodeling. Soil samples collected from the well borings contained up to 440 mg/kg TPHd, 0.032 mg/kg MTBE, and 1.3 mg/kg TBA. Delta's April 5, 2010 *Well Installation Report* provides details of this investigation.

2013 Updated Site Conceptual Model (SCM): On September 26, 2013, CRA submitted an updated SCM with recommended conducting an updated well survey and completing a groundwater model to characterize the potential for Site groundwater impacts to reach the down-gradient wells.

2014 Updated Well Survey and Groundwater Modeling: On March 4, 2014, CRA submitted an *Updated Well Survey and Groundwater Modeling Report.* CRA's updated well survey identified a domestic well 2,000 feet down gradient south of the Site and an irrigation well 2,700 feet down gradient south of the Site. CRA used a groundwater transport model to evaluate whether the two water-producing wells down gradient from the Site could potentially be impacted by residual soil and groundwater impacts at the Site, principally by MTBE detected in groundwater samples collected from deeper wells. Based on the groundwater transport model, it appears unlikely that groundwater pumped from these wells would be affected by residual MTBE in soil and groundwater at the subject Site; and therefore, there is no human health risk due to human consumption of groundwater pumped from known water-producing wells located down gradient from the Site.

2005-Present Groundwater Monitoring: Groundwater has been monitored since May 2005.

Appendix B Cambria Environmental Technology, Inc. – Site Plan





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	ta.	Drilling	Vethod	Glegg			Diamata	0/0/2000 ** 10 keek	Location Map
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	NAME TE NAME		Shel Shel	l Oil Pro	oducts	<u>US</u> rvice S	tation	BORING/WELL NAME	MW-2R 17-Feb-11		······
		-	8999	San R	amon l	Road 1	Dublin CA	DRILLING COMPLETED	23-Feb-11		· · · · · · · · · · · · · · · · · · ·
PROJEC	CT NUME	ER -	2407	24	union	i toud, i		WELL DEVELOPMENT D	ATE (YIELD)	11-Ma	y-11 (39.0 gallons)
DRILLE	R	-	Case	ade Dr	illing, L	P.		GROUND SURFACE ELE		416.21	i ft above msl
DRILLIN	IG METH	OD	Hollo	w-sten	1 auger	г ·		TOP OF CASING ELEVA		415.82	2 ft above msl
BORING		FER	8"					SCREENED INTERVALS	_	30 to 4	15 fbg
LOGGE	DBY		W.N	lartinez	<u>د المعام الم</u>			DEPTH TO WATER (First	Encountered)	40.	00 fbg 🗸
REVIEW	VED BY		P. S	chaefer	PG#5	612		DEPTH TO WATER (Stati	c)	20.	87 fbg (11-May-11) 🛛 👤
REMAR	KS		Airkr	nifed to	5 fbg						
(mqq	DW NTS	LE ID	ENT	HLc (6	C.S.	UHU UHU	ПТНС			TACT H (fbg)	
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WELL LOG (PID) #\SHELL\6-CHARS\2407-\240724~1244DE5-1\240724.GPJ DEFAULT.GDT 5/25/11

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Conestoga Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

WELL LOG (PID) INSHELLIG-CHARS12407--240724-11244DE5-11240724.GPJ DEFAULT.GDT 5/25/11

Shell	Oil Produc	cts US	
Shell	branded	Service	Station

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED

Continued from Previous Page

ME <u>MW-2R</u> ED <u>17-Feb-11</u>

DRILLING COMPLETED 23-

D 23-Feb-11

, (mqq) Olq	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
									 2" diam., Schedule 40 PVC Bentonite Seal Monterey Sand #2/12
				-35			Δ.		✓ 2°-diam. 0.010° Slotted Schedule 40 PVC

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Conestoga Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

8999 San Ramon Road, Dublin, CA

BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

Shell Oil Products US
Shell - branded Service Station

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

Continued from Previous Page

MW-2R 17-Feb-11

TED 23-Fr

23-Feb-11

	(mqq) Olq	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	. WEL	L DIAGRAM
									45.0		Bottom of Boring @ 45 fbg
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5/25/11			•								
IDE5-1/240724.GPJ DEFAULT.GDT											
ELLIG-CHARS/2407/2407241/24-											
WELL LOG (PID) INSH											

			Con 590	estoga <u>0 Ho</u> llis	Rove Stree	rs & A <u>et, S</u> uit	ssociates e A		BORI	NG	/ WELL LOG
and the second s	n n di di n n di di n n n di di n n di		Eme Tele Fax:	eryville, ephone 510-4	CA 9 510- 120-91	94608 -420-0 70	700				
CLIENT	NAME		Shel	l Oil Pro	ducts	US		BORING/WELL NAME	MW-2RB		
JOB/SITE NAME			She	II - brang	ded Se	rvice S	tation	DRILLING STARTED	17-Feb-11		· · · · · · · · · · · · · · · · · · ·
LOCATION 8999 San Ramon Road,				amon I	Road, E	Dublin, CA	DRILLING COMPLETED	22-Feb-11		·····	
PROJE	CT NUME	BER	2407	724				WELL DEVELOPMENT D	ATE (YIELD)	<u>11-Ma</u>	y-11 (72.0 gallons)
DRILLE	R	_	Case	cade Dri	illing, L	P.		GROUND SURFACE ELE		415.97	7 ft above ms!
DRILLIN	IG METH	IOD -	Holld	ow-stem	auger			TOP OF CASING ELEVAT	ION _	415.66	5 ft above msl
BORING	B DIAME	TER -	8"					SCREENED INTERVALS		58 to 6	68 fbg
			<u>chaefer</u>	PC#5	312		DEPTH TO WATER (First	Encountered)	40.	.00 fbg	
REMAR	KS		Airkı	aifed to	5 fba	J. 1 Z	Inc	DEPTH TO WATER (State	()	22.	20 lbg (11-1018y-11) <u>±</u>
	+	····					······································	· · · · · · · · · · · · · · · · · · ·		••••••••••••••••••••••••••••••••••••••	·····
(mqq) QIA	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHO	DLOGIC DESCRIPTION		CONTACT DEPTH (fbg)	WELL DIAGRAM
				-			See boring log MW-	2RC for lithology.		†	│ ────────────────────────────────────
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WELL LOG (PID) I:ISHELLIG-CHARS/2407--240724-1/244DE5-1/240724.GPJ DEFAULT.GDT 5/25/11

Conestoga Rovers & Associates
5000 Hollie Street Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

ų.

WELL LOG (PID) #/SHELL/6-CHARS/2407--/240724-1/240E5-1/240724.GPJ DEFAULT.CDT 5/25/11

Shell Oil Products US Shell - branded Service Station 8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

MW-2RB 17-Feb-11

22-Feb-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
PID (ppm)	BLOW	SAMPLE I	EXTENT	HLdBq) DEblay	U.S.C.S.	GRAPHIC LOG		CONTACT DEPTH (fbg	WELL DIAGRAM
				 - 40 			∑. Continued Next Page		
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BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

Shell Oil Products US	
Shell - branded Service Station	
8999 San Ramon Road, Dublin, C	A

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

Continued from Previous Page

MW-2RB 17-Feb-11

22-Feb-11

1000 100 100 100 100 100 100 100 100 10	(mqq) Olq	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
1990 -			•		50					✓ 2" diam., Schedule
100 - - Monterey Send 200701-50000 - - - - - - - - - - - - - - - - - -<	CDT \$/25/11									Bentonite Seal
Coro- C	-1244DE5-1240724.GPJ DEFAULT									Monterey Sand #2/12
	LOG (PID) INSHELLIG-CHARS/2407-240724									 ✓ 2"-diam., 0.010" Slotted Schedule 40 PVC

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	;

BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

WELL LOG (PID) 1:1SHELLIS-CHARS/2407--1240724-1/244DES-1/240724.GPJ DEFAULT.GDT 5/25/11

Shell Oil Products US Shell - branded Service Station

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

MW-2RB 17-Feb-11

22-Feb-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WEL	L DIAGRAM
								68.0		Bottom of Boring @ 68 fbg
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		- -								
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PAGE 4 OF 4



DEFAULT GDT WELL LOG (PID) I:\SHELL\6-CHARS\2407--\240724--1\240E5--1\240724.GPJ



WELL LOG (PID) I:\SHELL\6-CHARS\2407-\240724~1\244DE5-1\240724.GPJ DEFAULT.GDT 5/25/11

2 2 2			Cor 590 Em Tele	iestoga 0 Hollis eryville ephone	Rove Stree CA 9 510-	rs & A et, Sui 94608 -420-0	Associates te A 1700		BORI	NG	/ WELL LOG
CLIENT JOB/SI LOCAT	NAME FE NAME ION	-	She She 899	ll Oil Pro Il - bran 9 San R	ded Se	US rvice S Road,	Station Dublin, CA	BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED	MW-2RC 18-Feb-11 21-Feb-11		
PID (ppm)	BLOW COUNTS	SAMPLE ID	CVTENIT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	L	ITHOLOGIC DESCRIPTION		CONTACT DEPTH (fbg)	WELL DIAGRAM
										43.3	

CLAY (CL): greenish black (10Y 2.5/1), moist, 60% clay, 40% silt, medium plasticity.

Sandy SILT (ML): dark grayish brown (10YR 4/2), moist, 10% clay, 60% silt, 25% fine sand, 5% fine gravel, low plasticity.

@ 55 fbg; <u>SILT with sand (ML):</u> brown (10YR 4/3), 25% clay, 60% silt, 15% fine sand.

<u>CLAY with sand (CH):</u> brown (10YR 4/3); moist, 75% clay, 10% silt, 15% fine sand, high plasticity.

48.3

58.3

63.3

WELL LOG (PID) INSHELLIG-CHARS/2407-240724-1/2440E5-1/240724.GPJ DEFAULT.GDT 5/25/11

0.1

0.0

5/5/10

8/9/12

0*1*0/10

7/9/14

10/10/10

2.6

0.1

0,7

MW-2R C -45.5

MW-2R C -50.5

MW-2R C -55.5

MW-2R C -60.5

MW-2R C

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ML

50

-55-

-60

-65

CH

<u>SILT (ML):</u> light olive brown (2.5Y 5/4), moist, 25% clay, 70% silt, 5% fine sand, low plasticity. *Continued Next Page*

BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

Shell Oil Products US Shell - branded Service Station 8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

MW-2RC 18-Feb-11

21-Feb-11

Continued from Previous Page



	Coпestoga Rovers & Associates 5900 Hollis Street, Suite A		BORING
	Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170		
CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	_MW-2RC
JOB/SITE NAME	Shell - branded Service Station	DRILLING STARTED	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	DRILLING COMPLETED	21-Feb-11

G / WELL LOG

Continued from Previous Page

CONTACT DEPTH (fbg) SAMPLE ID (mqq) BLOW GRAPHIC LOG EXTENT DEPTH (fbg) U.S.C.S. LITHOLOGIC DESCRIPTION WELL DIAGRAM ЦЦ 90 9/13/12 0.0 MW-2R C <u>SILT with sand (ML):</u> light olive brown (2.5Y 5/4), moist, 10% clay, 70% silt, 20% fine sand, low plasticity. -90.5 Bentonite Seal ML Monterey Sand #2/12 95 @ 95 fbg;Sandy SILT (ML): wet, 10% clay, 55% silt, 35% fine sand, 0/12/16 0.0 MW-2R C -95.5 98.3 SC Clavey SAND (SC): light olive gray (2.5YR 5/4), wet, 20% clay, 10% silt, 70% fine sand. 14/60 for 6' MW-2R C -100.5 0.0 2"-diam., 0.010" 101.4 Clavey GRAVEL with sand (GC): light olive gray (2.5YR 5/4), wet. Slotted Schedule 40 PVC GC 103.3 SAND with silt (SP-SM): weak red (2.5YR 4/2), wet, 10% silt, 90% coarse sand. SP SM 05 Clayey SAND (SC): light olive gray (2.5YR 5/4), wet, 20% clay, 10% silt, 70% fine sand. 12/50 for 6* MW-2R C -105,5 0.3 106.0 Sandy CLAY with gravel (CL): weak red (2.5YR 4/2), moist, 50% clay, 30% coarse sand, 20% gravel, low plasticity. CL 108.3 ۰Q° Beckfilled with $\mathcal{O}_{\mathcal{O}}^{\mathcal{O}}$ Bentonite, $[\circ 0 \circ]$ GΡ bo d GRAVEL with sand (GP): weak red (2.5YR 4/2), wet, 5% clay, 15% coarse sand, 80% fine gravel. 3/3/4 MW-2R C -110.5 0:0 0 111.5 Continued Next Page

BORING / WELL LOG

/

Bottom of Boring @ 111.5 fbg

WELL DIAGRAM

CONTACT DEPTH (fbg)

CLIENT NAME JOB/SITE NAME LOCATION

BLOW COUNTS

PID (ppm)

SAMPLE ID

EXTENT DEPTH (fbg)

Shell Oil Products US Shell - branded Service Station

U.S.C.S.

8999 San Ramon Road, Dublin, CA

GRAPHIC LOG

BORING/WELL NAME DRILLING STARTED

LITHOLOGIC DESCRIPTION

MW-2RC

DRILLING COMPLETED

Continued from Previous Page

18-Feb-11
21-Feb-11

WELL LOG (PID) 1:1SHELL\6-CHARS\2407--240724-1/244DE5-1/240724.GPJ DEFAULT.GDT 5/25/11

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				Project N	lo:	SJ89-99	5-1		Cllen	t:	Shell OII Products		Pere 1 of 7	
		•		Logged E	By:	Heather Buckingham			Local		8999 San Ramon h	Rd., Dubint (Fage 1 of 2		
	\/	~ [·	to	Driller:		Gregg			Date	Driffed:	5/6/2005	Location Map		
IL	八	21	ld	Drilling M	lethod:	HSA			Hole	Diamete	r; 10 inch		e cite man	
				Sampling	Method:	CA Mod	. Split Sho	e	Hole	Depth:	26 ft	Please se	e site map	
Er Er	ovir	onme	ental	Casing T	'ype:	PVC			Weli	Diamete	r: 4 inch			
Col	ารน	Itants	s, Inc.	Slot Size	;	0.01			Well	Depth:	26 feet			
Gravel Pac					ack:	#2/12	r	A1	Casir	ng stickt	ρ; ΝΑ Ε ^μ			
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***						au		1		CL	Sandy Lean CLAY:	nedium bro	own mottled with	
				damp		h tr	4	1			orange; 70-80% fines	; 20-30% f	ine grained sand in tan	
						ع ه					sand pockets; trace g	ravels up t	o 0.5" in diameter;	
τ	81				1.8		5				moderate to high plas	sticity; soft		
68							6.							
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							14							
						14								
				dry	0.6	24	15			CL	Sandy Lean CLAY: I	nedium bro	own; 70-80% fines; 20-30%	
						36	16				fine grained poorly gr	aded sand	in tan sand pockets; slight	
****							10				product odor; modera	te to high p	plasticity; stiff	
							17						·	
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					رانا الالدمار مناسبته					
		Project I	No:	SJ89-99	9S-1		Clien	ıt;	Shell Oil Products	US Boring No: MW-3
		Logged	Ву:	Heather	m	Loca	tion:	6999 San Ramon F	Rd., Dublin Page 2 of 2	
	10	Driller:		Gregg			Date	Drilled:	5/6/2005	Location Map
	ld	Drilling N	Viethod:	HSA	0	_	Hole	Diamete	r: 10 Inch	Blassa sas site man
		Samplin	g Method:	CA Mod	l, Split Sho	e	Hole	Depth:	25 ft	Please see site map
Environm	entai	Casing	Type:	PVC			VVell	Diameté	r: 4)nch	-
Consultant	s, Inc.	Slot Size	9; De el v	0,01			Well	Depth:	26 R	
		Graver	Flavation	#2/12	1	Nort	bing	ių sucki	p. NA Fastino	
		¦ .				140(4	шâ		Lasing	
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Ξ		day	0.7	9	25			CI	Sandy Loop CLAV:	grov: 60 70% fings: 20 40% cand:
			0.7	27	-			UL	low to moderate plast	heity: stiff
				1 - 1	26				Boring terminated at	26 feet below ground surface
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Er Cor Well C)el nvironmo nsultant	ta ental s, Inc.	Project I Logged Driller: Drilling N Samplin Casing T Slot Size Gravel P	No: By: Method: g Method: Type: e: e: Pack: Elevation	SJ89-99 Heather Gregg HSA CA Mod PVC 0.01 #2/12	98-1 Buckingham I. Spilt Shoe No B	Clien Loca Date Hole Hole Well Cash	at; Drilled; Diamete Depth; Diamete Depth; ng Sticku	Shell Oil Products L 8999 San Ramon R 5/6/2005 r: 10 inch 27 ft r: 4 inch 27 feet p: NA Easting	JS d., Dublin Location Map Please se	Well No: MW-4 Page 1 of 2
Backfill'	Casing	Water Level	Moistur Conter	PID Read (ppm)	Penetrat (blows/f	Depth (fe	Interval	Soil Typ	LIT	HOLOGY	/ DESCRIPTION
			wet		ir knifed &			AF SM CL	Asphalt 6", Base rock Silty SAND: light brow sand, well graded Sandy Lean CLAY: n orange: 70-80% fines:	4" wn; 20-30% nedium bro : 20-30% f	% silt; fine to coarse grained own mottled with ine grained sand in tan
Grout			dry	3	• ■ ■ ■				sand pockets; trace gi moderate to high plas	ravels up t ticity; soft	o 0,5" in diameter;
			dry	1.3	8 10 16	9		CL	Lean CLAY with San mottling; 85-90% fines sand pockets; modera	id: medium s; 10-15% ite plasticit	n brown with orange fine grained sand in tan ty; soft
			dry	0.7	14 24 36	13 14 15 16 17 18		CL	Sandy Lean CLAY: g 75-80% fines; 25-30% tan sand pockets; moc	rey mottlee fine grain derate to h	d with medium brown; ed poorly graded sand in igh plasticity; stiff
Bentonite		¥	moist	0.7	15 21 25	19			(Same as above diameter)	e, trace gra	avels up to 0.5 cm in

		In the second	1	0.100.00	0.1		Ollon	4 -7	Shall Oil Products	119	Boring No: MW-4	
		Project N	10: 7	SJ89-99	15-1 Ruckioght	104	Clien	tion:	Siteli Oli Producis 8000 San Ramon	03 Rd Dublia	Page 2 of 2	
I		Drillor	Эγ.	Grenn	Duckinging		Date	Drilled [,]	5/6/2005	f coation Map	1.4902 0.2	
	ta	Drilling N	lethod:	HSA			Hole	Diamete	r: 10 inch	Loballon map		
	a	Samplin	Method:	CA Mod	. Split Sho	9	Hole	Depth:	27 ft	Please s	ee site map	
Environm	ental	Casing 1	voa:	PVC	1- 11 - 11 - 11 -	-	Well	Dlamete	r; 4 inch		·	
Consultant	s. inc.	Siot Size	2F	0.01			Well	Depth:	27 ft			
	-,	Gravel P	ack:	#2/12			Caslı	ng Stioki	ip: NA			
			Elevation	Northing					Easting			
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Well Completion	Static	e t	eding ((je	(teet)	Sa	mple	ype				
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							1		Sandy Lean CLAY:	continued		
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				9	25							
		wet	0,4	27	·				Lean CLAY with Sa	nd: mediu	m brown with arey mottling:	
				21	26 —			CI	grev: 85-90% fines:	10-15% sar	nd: moderate plasticity: stiff	
— —									Boring terminated at	27 feet be	low ground surface	
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Dalta			Project N	No:	SJ89-99		Clien	t:	Shell Oil Products	US V	Vell No: MW-5		
Delta Environmental Consultants, Inc.			Logged	By:	Andy Pe	ersio		Loca	tion:	8999 San Ramon	F	Page 1 of 2	
Delta Environmental Consultants, Inc.			Driller:		Gregg			Date	Drilled:	7/26&28/06	Location Map		
	JE	- I	I.	Drilling N	/lethod:	HSA/ AF	< (7')		Hole	Diamete	er: 12"/10"		
				Samplin	g Method:	SS			Hole	Depth:	28'	Please see	site map
En	vir	onme	ental	Casing 1	Гуре:	Sch 40 I	PVC		Well	Diamete	er: 4"		
Cor	nsul	ltant	s, Inc.	Slot Size	ə:	0.01			Well	Depth:	28'		
				Gravel F	ack:	#2/12 sa	and		Casii	ng Sticki	up: NA		
					Elevation			North	ning		Easting		
ļ,	Well							·		<u>.</u>			
Cor	nplet	tion	Static	e te	ding	ē 💭	et)	Sar	nple	e			
	p		Water	istu ntei	Rea(etrat ws/i	ц ц	ery	al	Ţ	LI1	HOLOGY / D	ESCRIPTION
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		_		moist	0.5	_ه_ه_			•	CL	sandy lean CLAY: da	ark brown, stil	ff. 20-30% fine to
nt							5-				medium grained sand	s, low plastic	ity
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				moint	0.2	4	9—		-T-	SC	clayey SAND: dark b	rown, mediun	n dense, 30-40% fines,
				moist	0.5	10	-				5-15% gravels up to t	0.5° D-axis dia	meter, no plasticity
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						4	14			CL	sandy lean CLAY: da	ark brown, ve	ry stiff, 25-35% fine
				moist	11.2	7	<u>-</u>	- 15			grained sands, low pl	asticity	
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			Project N	NO.	S.189-99	IS-1		Clien	ut-	Shell Oil Products	US Well No: MW-5
			Logged	Bv:	Andy Pe	ersio		Loca	tion [.]	8999 San Ramon	Page 2 of 2
	Delta		Driller:	-,,	Grega			Date	Drilled	7/26&28/06	
)/	٦l	ta	Drilling N	lethod:	HSA/AR	(7 '\		Hole	Diamete	1720020/00	Location Map
		la	Samplin	a Method:		(<i>()</i>		Hole	Donth	21. 12710 201	Please see site man
Envir		ntol		g Methou.	0-1 401			- HUIE	Deptil.	20	riease see site map
	Unme	entai	Casing I	ype:	Sch 401	-00		vven	Diamete	ir: 4"	
Consu	itants	s, inc.	SIDE SIZE). Na alvi	0.01			vveii	Deptn:	28	
			Graver	ack:	#2/12 \$8	ina T	N1	Casi	ng Sticki	up; NA	
				Elevation			NOR	ning		Easting	
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		V			10	24			1		
			moist	2.3	10	0.5			1	~~~	
ק						25-		<u> </u>	1.		
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						26 -			sc`	clayey SAND: brown	medium dense, 30-40% fines, trace
					10	07	P	•	1	gravels up to 0.5" b-a	xis diameter, no plasticity
			moist	8.8	15	27 -			1		
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				10.2308-88				Clien	1. 	Shell Oil Products	05	
	_			зу: Апау Р	ersio			Loca	uon:	8999 San Ramon, Dublin,CA		Page 1 of 2
		ta	Driller: G	regg		_		Date	Drilled:	2/21/2006	Location Map	
L	U	la	Drilling N	lethod: WK	to 77HS	A		Hole	Diamete	er: 12" - 10"		
			Sampling	3 Method: I	HA/SS			Hole	Depth:	7'/30'	Please se	e site map
Env	ironme	ental	Casing T	'ype: SCh⊿	40 PVC			Well	Diamete	€4"		
Cons	ultants	s, Inc.	Slot Size	: 0.01				Well	Depth:	30'		
			Gravel P	ack: 2/12/ :	sand			Casir	ng Stick	up: 0		
				Elevation			Nortl	ning		Easting		
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vv Comn	ell Jetion			бu	50	E	Sa	mole	a)			
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Kfil 2		vvater	io Ii	Pp [pp	low.	EF		Z a	L lic	LI	HOLOGY	DESCRIPTION
S Ba	ά Σ	Level	≥ 0		De De		ec	Inte	Ň			
	1									~6" asphalt and basaroo	k	
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						1—	_			andy lean CLAY: dark	arou 40 El	00/ fine to med arrained
			domn	20 F		-	and the second second		UL.	sandy lean CLAT: dark	grey, 40-5	0% fine to med. grained
	——		uamp	32.5		2				sands, med.plasticity		
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					rg ife		200000000000					
			damp	18.5	20	4	190	\$		dark brown, 35	<u>-45% fine t</u>	o med. grained sands
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5			damp	50.6		6				orangish browr	ı, 40-50% f	ine to med. grained sands
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									CL	lean CLAY w/sand: dar	k brown 1	-20% fine grained sands
			•			9	150 246		02	trace gravels up to 1" dis	trace cal	liche med Plasticity
			damp	86.1		-				ridde gravels up to 1 die		inche, med. I lasticity
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						14_			CL	lean CLAY: dark brown,	5-15% fine	e grained sands, med.
										plasticity		
			damp	11.8		15		┥				
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						18			sc	clavey SAND: greenish	brown to a	rev (discoloration) 40-50%
nite 2002						-		A		fines med to fine graine	d sands lo	w plasticity
Jtor 🕅						19—				integration to the grane		
Be			damn	62		20 -				· · · · · · · · · · · · · · · · · · ·		
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Delta Environmental Consultants, Inc.	Project I Logged Driller: G Drilling I Samplin Casing 1 Slot Size Gravel F	No:SJ89-99 By: Andy Pe Gregg Method: WK g Method: WK g Method: WK g Method: VK action Sregge SCA Pack: 2/12/ s Elevation	-1 ersio to 7'/HS IA/SS IO PVC Sand	A	North	Clier Loca Date Hole Well Well Casin	nt: tion: Drilled; Diamete Depth; Diamete Depth; ng Stick	8999 San 2/21/2006 er: 12" - 10" 7'/30' 24" 30' up: 0	Shell Oil Products Ramon, Dublin,CA S Easting	US Location Map Please se	Well No: MW-6 Page 2 of 2 ee site map
Well Completion E D Water Vater Completion Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sar Kecovery	Interval eldu	Soil Type		LIT	[HOLOGY	DESCRIPTION
	damp	11.3					SC CL SC	clayey S lean CL 15-25% clayey S med. De no plasti	SAND (cont.) AY w/sand: bro fine grained san SAND w/gravel: nse, 30-40% fin city Bottom of borir	wn w/orang ids, trace gr greyish brc es, 5-15% g ng terminate	e mottling, med. stiff, 'avels up to 1/4" dia. ''''''''''''''''''''''''''''''''''''

	Project No:	SJ89-99S-1	Client:	Shell Oil Products US Well No: MW-7
	Logged By:	Andy Persio	Location:	8999 San Ramon Page 1 of 2
	Driller:	Gregg	Date Drilled:	7/26/2006 Location Map
Della	Drilling Method:	HSA / AK (7')	Hole Diamete	er: 12"/10"
	Sampling Method	SS	Hole Depth:	28' Please see site map
Environmental	Casing Type:	Sch 40 PVC	Well Diamete	r: 4"
Consultants, Inc.	Stot Size: Gravel Pack:	U.U1 #2/12 sand	vven Deptn: Casing Stick	28' NA
	Elevatio	m	Northing	Easting
Completion	ing te	ef) 🗊 o	Sample og	
≣ on Water	stur iten ead	vs/6 vs/6	Typ al	LITHOLOGY / DESCRIPTION
Level		blov epti	Soil Soil	
			La Re	
	-			~5" asphalt
		1.		clayey SAND: brown, medium dense, 15-25% fines, fine to
			- -------------	* @ around 18-24" bd a broken laver of conholt wee
		2.		
		l ∞ b		lean CLAY: dark brown, stiff, <10% fine grained sands.
		le de 3.		low plasticity, trace gravels up to 0.5" diameter
	moist 0.6			
ont –				Non-
ษั 📃		6		
		▼ 7.		100-100 / Washed of the base of the second
		8.		
		4 o.	CL	sandy lean CLAY: dark brown, very stiff, 30-40% fine to
	moist 0.6	7		medium grained sands, 5-15% gravels up to 0.75" b-axis
		10 10.		diameter, low plasticity
				· · · · · · · · · · · · · · · · · · ·
		11.		
		12		
		13.	· · · · ·	
		4 14	CL	lean CLAY w/sand: dark brown, stiff, 15-25% fine grained
	moist 1.2	6		sands, low plasticity
		8 15		
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		1 18.	<u> </u>	· · · · · · · · · · · · · · · · · · ·
au		10 ₁₉	CL	sandy lean CLAY: brown, hard, 30-40% fine to medium
	moist 0.8			grained sands, trace gravels up to 0.5" diameter,
		13 20		low plasticity

			Project N	lo:	5.189-99	S-1		Clien	ŧ.		Shell Oil Product	s US	Well No: MW-7
				Rv [.]	Andy Pe	ersio		Locat	tion [.]		8999 San Ramon		Page 2 of 2
-			Drillor		Crogo	1310		Data	Drillod:				
	٦ŀ	to		Anthoni,	Gregg LICA (AI	V (71)		Date	Dimeu. Diamata		1720/2000	Location Map	
フロ	71	ια		Method:		K (7)		Hoje		er:	12710		
			Sampling	g Method:	SS			Hole	Depth:		28'	Please s	ee site map
=nvir	onme	ental	Casing T	ype:	Sch 40 I	PVC		Well	Diamete	er:	4"		
onsu	Itants	s, Inc.	Slot Size		0.01			Well	Depth:		28'		
			Gravel P	ack:	#2/12 sa	and		Casir	ng Sticku	up:	NA		
				Elevation			North	ning			Easting		· ·
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vveii	tion			6u	5	÷	Sar	nnia					
ompie	uon	Static	ent	n) adi	s/6"	(fee			уре		_		
<u>b</u>		Water	ont	Ppr	ow	Ę	Ker	val			L	ITHOLOGY	/ DESCRIPTION
Cas		Level	ΣO	Ê.,	Per E	Der	Se l	ntei	ы М				
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	8:15	a 🗸	moist		13	25		+					· · · · · · · · · · · · · · · · · · ·
						26 —							
					6	27		1			light brown, n	o gravels	
			moist	0.6	12								
					13	28 —		*					
											Bottom of bor	ing terminal	ted at 28 feet bg
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			Project N	No:	SJ89-99	S-1	Clier	nt:	Shell Oil Products	US Well No: MW-8
	Delta		Logged I	By:	Andy Pe	ersio	Loca	ation:	8999 San Ramon	Page 1 of 2
		1 - 1	Driller:		Gregg		Date	Drilled:	7/25 & 27/06	Location Map
()	<u>e</u> r	IA.	Drilling N	/lethod:	HSA / A	K (7')	Hole	Diamete	er: 12"/10"	
		u	Sampling	g Method:	SS		Hole	Depth:	28'	Please see site map
En	/ironm	ental	Casing T	- ype:	Sch 40 I	PVC	Well	Diamete	er: 4"	•
Cons	sultant	s, Inc.	Slot Size);	0.01		Well	Depth:	28'	
		,	Gravel P	'ack:	#2/12 sa	and	Cas	ing Stick	up: NA	
				Elevation			Northing		Easting	
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					10	14		L CL	lean CLAY w/sand: o	dark brown, hard, 15-25% fine grained
		1	moist	65.2	12			4	sands, 5-15% gravels	s up to 0.75" diameter, low plasticity
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Del Environme onsultant	ta ental s, Inc.	Project N Logged I Driller: Drilling N Sampling Casing T Slot Size Gravel P	lo: 3y: Method: g Method: 'ype: e: eack: Elevation	SJ89-99 Andy Pe Gregg HSA / A SS Sch 40 I 0.01 #2/12 sa	PS-1 ersio K (7') ⊃VC and	Cli Lou Da Ho Ho We Ca Northing	ent: cation: te Drilled: le Diamet le Depth: ell Diameto ell Depth: sing Stick	er: er: up:	Shell Oil Products 8999 San Ramon 7/25 & 27/06 12"/10" 28' 4" 28' NA Easting	US Location Map Please S	Well No: MW-8 Page 2 of 2 ee site map
ompletion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample	Soil Type		Lľ	THOLOGY	/ DESCRIPTION
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			Project N	No:	SJ89-99	S-1		Clien	t:	Shell Oil Products	US	Well No: MW-9
			Logged I	By:	Andy Pe	rsio		Locat	tion:	8999 San Ramon		Page 1 of 2
		1	Driller:		Gregg			Date	Drilled:	7/26 & 27/06	Location Map	
	$ \mathbf{O} $	TA.	Drilling N	/lethod:	HAS/ A	< (7')		Hole	Diamete	r: 12"/10"		
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			· ·						CL	sandy lean CLAY: da	rk brown,	stiff, 30-40% fine to medium
										grained sands. low pl	asticity, tra	ace gravels up to 1" b-axis
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			Logged E	Зу:	Andy Pe	rsio		Locat	tion:	8999 San Ramon	Page 2 of 2	
7	. 11		Driller:		Gregg			Date	Drilled:	7/26 & 27/06	Location Map	
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Ξηνίτο	nme	ntal	Casing T	ype:	Sch 40 I	PVC		Well	Diamete	er: 4"		
onsult	tants	, Inc.	Slot Size	:	0.01			Well	Depth:	29.4'		
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				Project N	lo:	SJ89-99)S-1			Clien	t:	Sheil Oil Products	US Well No: MW-10
				Logged E	By:	Andy Pe	ersio			Locat	tion:	8999 San Ramon	Page 1 of 2
			4	Driller:		Greaa				Date	Drilled:	7/25-26/06	Location Map
)/	יוב	ta	Drilling N	lethod:	HSA / A	K (7')			Hole	Diamete	er: 12"/10"	
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		Logged I	Зу:	Andy Pe	rsio	Loca	tion:	8999 San Ramon		Page 2 of 2
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				l ogged f	Ro. Rv:	Andy Pi	ersio		Loca	tion	8999 San Ramon	00.	Page 1 of 2		
				Driller		Gread			Date	Drilled	7/25 & 28/06	Location Man			
)/	٦ŀ	ta	Drilling M	lethod [,]	HSA / A	K (7')		Hole	Diamete	er: 10"/6"	Please see site map			
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			Project N	lo:	SJ89-99	99S-1 Client:			t:		Shell Oil Products	s US Well No: MW-11		
			Logged E	Зу:	Andy Pe	rsio		Locat	tion:		8999 San Ramon		Page 2 of 2	
		L _	Driller:		Gregg			Date	Drilled:		7/25 & 28/06	Location Map		
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DELTA	Client Shell Oil Products Project Number SJ899SA	BORING LOG Well No. MW-12						
Address: 899 San Ramon Road Dublin, CA. Logged By: M. Lambert	Drilling Date(s): 12/19/2007 Drilling Company: Test America Drilling Method: HSA Boring Depth (ft): 38	Boring diameter (in.): 10'' Sampling Method: Split Spoon Well Depth (ft.): 38' Casing Diameter (in.): 4''	Casing Material: SCH 40 PVC Screen Interval: 28'-38' Screen slot size: 0.010'' Sand Pack: #2/12					
Depth (ft.) Water Level Soil/Rock Graphic Sampled Interval Blow Counts (blows/ft)	(%) A Soil/Rock \ Soil/Rock \	Visual Description	PID Reading (ppm) Well Completion Depth (ft.)					
0 5 -	ASPHALT: 6" GW: GRAVEL with clay, brown, Airknifed to 8' bgs. on 12/17/2007	low plasticity, dense, moist.						
	CL: Gravelly CLAY with sand, br	own, 70% fines, low plasticity, dens dense, low plasticity, trace gravel,	e, moist. 6.3 - 10 moist. 2.2 - 15					
20)0% (same as above.)		5.8					
25 - 39 10	00% Sandy CLAY, brown, 65% fines, lo	ow plasticity, dense, moist, trace gra	avel. 0.4					
30 - 35 10 	90% SC: Clayey SAND, dark brown, 5	0% fines, low plasticity, dense, moi	st. 0.1					
	CL: Sandy CLAY, brown, 55% fir End of boring: 38' bgs.	nes, low plasticity, dense, wet.	0.1					
40								
Page 1 of 1			45					

	CLIENT	NAME	19,2 	Con 590(Eme Tele Fax: Shel	estoga <u>) Hollis</u> ryville, phone 510-4 <u>i Oil Prc</u>	Rove Stree CA 9 510- 120-91	ers & A et, Sui 94608 -420-0 170	Associates te A 0700						
	JOB/SITE NAME LOCATION PROJECT NUMBER DRILLER			Shel 8999 2407 Case	<u>l - branc</u> San Ri 24 ade Dri	ded Se amon I illing, L	rvice S Road, I P.	Station Dublin, CA	DRILLING STARTED DRILLING COMPLETED WELL DEVELOPMENT DA GROUND SURFACE ELEV	18-Feb-11 02-Mar-11 ATE (YIELD) /ATION	13-May-11 (33.0 gallons) 416.31 ft above msl			
		IG METH	00 _	Holic	w-stem	auger			TOP OF CASING ELEVAT	ION	415.7	7 ft above msl		
	LOGGE	5 DIAMET D BY	ER	8" W. N	lartinez		·		SCREENED INTERVALS DEPTH TO WATER (First	Encountered)	30 to 40.	45 fbg .00 fbg	Ţ	
	REVIEW	VED BY		P. S	chaefer	PG#5(512		DEPTH TO WATER (Static	;)	24	.60 fbg (13-May-11	I) <u> </u>	
	REMAR	KS		Airkr	nifed to	5 fbg								
	PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITH	OLOGIC DESCRIPTION		CONTACT DEPTH (fbg)	WELL DIAG	RAM	
								See boring log MW-	13C for lithology.		1		···	
WELL LOG (PID) 1:1SHELLIG-CHARS(2407240724-1/240E51/240724.GPJ DEFAULT.GDT 5/25/11													nd Type I/II	

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BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

WELL LOG (PID) INSHELLIG-CHARSI2407-1/240724-1/244DE5-1/240724.GPJ DEFAULT.GDT 5/25/11

	Shell Oil Products US
	Shell - branded Service Station
	8999 San Ramon Road, Dublin, CA
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BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

Continued from Previous Page

MW-13 18-Feb-11

02-Mar-11

		r				•					
PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM		
									 ✓ 2" diam., Schedule 40 PVC 		
					•				✓ Bentonite Seal		
					,			F	Monteney Sand #2/12		
						· ·					
								-			
				35	•						
									✓ 2"-diam., 0.010" slotted Schedula 40 PVC		
	-			40			∑ 				

Conestoga Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

Shell Oil Products US
Shell - branded Service Station

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETE

Continued from Previous Page

MW-13 18-Feb-11

D	02-Mar-11

	PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM	
									45.0	Bottom of Boring @ 45 fbg	
PJ DEFAULT.GDT 5/25/11											
RS\2407\240724~1\244DE5~1\240724.GF											
WELL LOG (PID) INSHELLING-CHA											

A CONTRACT OF		· · · · · · · · · · · · · · · · · · ·	Con 5900 Eme Tele Fax:	estoga <u>0 Holli</u> eryville phone 510-	a Rove <u>s Stree</u> CA 9 2 510 420-91	ers & A <u>et, Sui</u> 94608 -420-0 170	Associates te A 1700		BORI	NG	/ WELL LOG	6	
CLIENT	NAME	_	Shel	I Oil Pr	oducts	US	······	BORING/WELL NAME	MW-13B				
JOB/SIT	TE NAME		Shel	l - bran	ded Se	rvice S	tation	DRILLING STARTED	18-Feb-11	· · · · · · · · · · · · · · · · · · ·			
LOCAT	ION (-	8999	San F	tamon I	Road, I	Dublin, CA	DRILLING COMPLETED	03-Mar-11		1		
PROJE	CT NUME	ER _	2407	24				WELL DEVELOPMENT DA	ATE (YIELD)	13-Ma	ay-11 (72.0 gailons)		
DRIĻLE	R		Case	ade D	rilling, L	P.		GROUND SURFACE ELE		416.1	0 ft above msi		
DRILLIN	IG.METH	OD	Holic	w-sten	n auger	•	· · · · · · · · · · · · · · · · · · ·	TOP OF CASING ELEVAT	'ION _	415.3	39 ft above msl	_	
BORING		FER	8"					SCREENED INTERVALS	_	58 to	68 fbg	_	
LOGGE	DBY		W.N	lartinez	<u>z</u>			DEPTH TO WATER (First	Encountered)	40	0.00 fbg	Z	
REVIEW	VED BY	·	P. S(chaefei	PG#5	512		DEPTH TO WATER (Static	>}	23	3.40 fbg (13-May-11)	Ľ	
REMAR	KS		Airkr	ifed to	5 fbg					·····			
PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHC	DLOGIC DESCRIPTION		CONTACT DEPTH (fbg)	WELL DIAGRAM		
							See boring log MW-	I3C for lithology.					

WELL LOG (PID) !\SHELL\6-CHARS/2407--\240724--1/244DE5--1/240724.GPJ DEFAULT.GDT 5/25/11

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BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION Shell Oil Products US Shell - branded Service Station

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED

Continued from Previous Page

18-Feb-11

MW-13B

DRILLING COMPLETED 03-Mar-11

CONTACT DEPTH (fbg) SAMPLE ID PID (ppm) BLOW U.S.C.S. GRAPHIC LOG DEPTH (fbg) EXTENT LITHOLOGIC DESCRIPTION WELL DIAGRAM Portland Type I/II Ţ -25 •**3**0 Well LOG (PID) INSHELLIG-CHARS/2407-/240724-1/244DE5-1/240724.GPJ DEFAULT.GDT 5/25/11 -35 Ŷ 40

and the second	

BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

Shell Oil Products US Sheil - branded Service Station

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED

Continued from Previous Page

MW-13B 18-Feb-11

DRILLING COMPLETED

03-Mar-11

CONTACT DEPTH (fbg) SAMPLE ID PID (ppm) BLOW COUNTS GRAPHIC LOG DEPTH (fbg) EXTENT U.S.C.S. LITHOLOGIC DESCRIPTION WELL DIAGRAM 45 2" diam., Schedute 40 PVC 50 Bentonite Seal -55 Monterey Sand #2/12 ·60 2" diam., 0.020 slotted Schedule 40 PVC -65

WELL LOG (PID) INSHELLIG-CHARSI2407-240724-11240E5-11240724.GPJ DEFAULT.GDT 5/25/11

Conestoga Rovers & Associates						BORING / WELL LOG						
	e de la compañía de la		Eme Tele Fax:	ryville phone 510-4	, CA 9 510- 120-91	94608 420-0 70	0700					
CLIENT NAME Shell Oil Products US								BORING/WELL NAME	MW-13B			
JOB/SITE NAME Shell - branded Service Station					DRILLING STARTED	18-Feb-11						
LOCATION 8999 San Ramon Road, Dublin, CA					DRILLING COMPLETED 03-Mar-11							
							Continued from	n Previous Page				
(mqq) Olq	BLOW COUNTS	SAMPLE ID	FXTENT	- DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHO	LOGIC DESCRIPTION		CONTACT DEPTH (fbg)	WEL	L DIAGRAM
										68.0		Bottom of Boring @ 68 fbg

WELL LOG (PID) I:\SHELL\6-CHARS'2407--\240724-1\244DE5-1\240724.GPJ DEFAULT.GDT 5/25/11
				Con 5900 Eme Tele Fax:	estoga 0 Hollis eryville ephone 510-4	Rove Stree CA 510 20-9	ers & A et; Suit 94608 -420-0 170	ssociates te A 700		BOR	ING	6 / WELL L	OG
	CLIEN	TNAME	_	Shei	<u>l Oil</u> Pro	ducts	US		BORING/WELL NAME	MW-13C			
	JOB/SI		=	Shel	l - brand	ded Se	rvice S	tation	DRILLING STARTED	18-Feb-11		······································	
	LOCAT	ION	-	8999) San R	amon	Road, C	Dublin, CA	DRILLING COMPLETED	02-Mar-11			
	PROJE		BER	2407	/24				WELL DEVELOPMENT DA	TE (YIELD)	13-M	lay-11 (101.0 gallons))`
	DRILLE	ER No MET	-	Case	cade Dr	illing, l	P.		GROUND SURFACE ELEN	ATION	415.7	73 ft above msi	
	BODIN		100 TED -	Holic	w-stem	auger	, 		TOP OF CASING ELEVAT		415.7	73 ft above msl	
	LOGGE	G DIAME	-	8" W N	lartinez				SCREENED INTERVALS		85 to	95 fbg	<u></u>
	REVIE	NED BY		P. S	chaefer	PG#5	612		DEPTH TO WATER (FIRST DEPTH TO WATER (Statio	Encountered)		3.55 fbg (13 May 11)	<u>₹</u>
	REMAR	RKS		Airkr	nifed to a	5 fbg				·)		1.55 lbg (15-lvlay-11)	<u> </u>
		1										······································	
	(mqq) DId	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHC	DLOGIC DESCRIPTION		CONTACT DEPTH (fbg)	WELL DIAGR	АМ
38/2407/2400241/2440E51/240724.GPJ_DEFAULT.GDT_5/25/11	0.0	4/5/5 7/12/6	MW-13 -5.5 MW-13 (-10.5			CL CH ML		ASPHALT Gravelly CLAY (CL): 40% clay, 30% silt, 3 CLAY (CH): very dark 15% silt, 5% fine grav SILT with sand (ML): 30% clay, 55% silt, 11 medium plasticity, fill. CLAY with sand (CL) moist, 50% clay, 30% plasticity, fill.	dark reddish gray (10R 4/1) 0% gravel, low plasticity, fill (gray (5YR 3/1), moist, 80% vel, high plasticity, fill very dark gray (5YR 3/1), n 0% fine sand, 5% fine grave (2 dark reddish brown (5YR 2 5 silt, 20% fine sand, mediur it, 20% fine sand, mediur (2.5YR 5/2), moist, 10% nd, 10% fine gravel, low plast	, moist, 6 clay, noist, al, 2.5/2), n	0.3 3.0 4.0 5.0		
WELL LOG (PID) ANHELLIG-CHA											20.0		



BORING / WELL LOG Conestoga Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170 CLIENT NAME Shell Oil Products US BORING/WELL NAME **MW-13C** JOB/SITE NAME 18-Feb-11 Shell - branded Service Station DRILLING STARTED LOCATION 8999 San Ramon Road, Dublin, CA DRILLING COMPLETED 02-Mar-11 Continued from Previous Page CONTACT DEPTH (fbg) SAMPLE ID PID (ppm) BLOW EXTENT DEPTH (fbg) GRAPHIC LOG U.S.C.S. LITHOLOGIC DESCRIPTION WELL DIAGRAM 43.3 45 CLAY with sand (CL): very dark grayish brown (2.5Y 3/2), wet, 60% clay, 20% silt, 15% fine sand, 5% fine 7/9/13 MW-13 C -45.5 0.1 CL gravel, medium plasticity. 48.3 -50 SILT (ML): very dark grayish brown (2.5Y 3/2), moist, 40% clay, 60% silt, medium plasticity. 5/10/10 MW-13 C -50.5 0.3 ML WELL LOG (PID) 1:ISHELLIG-CHARS/2407--/240724--1/244DE5--1/240724.GPJ DEFAULT.GDT 5/25/11 -55 @55 fbg; 20% clay, 70% silt, 10% sand, low plasticity. 7/9/13 MW-13 C -55.5 0,1 58.3 60 CLAY with sand (CL): dark grayish brown (2.5Y 4/2), moist, 60% clay, 20% silt, 15% fine sand, 5% fine gravel, 10/10/15 MW-13 C -60.5 0,8 CL low plasticity. 63.3 SILT (ML): light olive brown (2.5Y 5/3), moist, 40% clay, 0/10/12 60% silt, low plasticity. MW-13 C 0.6 Continued Next Page

PAGE 3 OF 5

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BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

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Shell Oil Products US Shell - branded Service Station 8999 San Ramon Road, Dublin, CA BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

MW-13C 18-Feb-11

Continued from Previous Page

02-Mar-11

CONTACT DEPTH (fbg) PID (ppm) BLOW EXTENT GRAPHIC LOG DEPTH (fbg) ഗ് SAMPLE U.S.C. LITHOLOGIC DESCRIPTION WELL DIAGRAM -60.5 ML @ 70 fbg: <u>Sandy SILT (ML):</u> 10% clay, 60% silt, 30% fine sand. 0/10/10 MW-13 C 0.8 -70.5 73.3 CLAY (CL); reddish gray (5YR 5/2), moist, 60% clay, 40% silt, medium plasticity. 10/14/18 MW-13 C 0.9 -75.5 CL DEFAULT.GDT 5/25/11 2" diam., Schedule 40 PVC 78.3 80 <u>Sandy SILT (ML):</u> reddish gray (5YR 5/2), moist, 10% clay, 60% silt, 30% fine sand, low plasticity. MELL LOG (PID) INSHELLIG-CHARS/2407--/240724-1/244DE5-1/240724 GPJ Bentonite Seal 0/11/10 MW-13 C 0,1 -80;5 ML 83,3 Monterey Sand #2/12 CL 85 $\underline{\text{CLAY}}$ with sand (CL): reddish gray (5YR 5/2), moist, 50% clay, 30% silt, 20% fine sand, medium plasticity. 7/19/24 0.5 MW-13 C 86.0 -85.5 Silty SAND (SM): reddish gray (5YR 5/2), moist, 20% silt, 80% fine to medium sand. SM 88.3 SAND (SP): brown (7.5YR 5/2), wet, 95% fine to coarse Continued Next Page PAGE 4 OF 5

BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

5/25/11

WELL LOG (PID) 1:ISHELL/6-CHARS/2407-/240724-1/240F6-1/240724.GP3 DEFAULT.GDT

Shell Oil Products US Shell - branded Service Station

8999 San Ramon Road, Dublin, CA

DRILLING STARTED DRILLING COMPLETED

BORING/WELL NAME

Continued from Previous Page

18-Feb-11

02-Mar-11

MW-13C

CONTACT DEPTH (fbg) SAMPLE ID PID (ppm) BLOW GRAPHIC LOG EXTENT DEPTH (fbg) U.S.C.S. LITHOLOGIC DESCRIPTION WELL DIAGRAM sand, 5% fine gravel. SP 90 2"-diam., 0.010" Slotted Schedule 40 PVC MW-13 C -90.5 7/9/12 0.1 91.0 SILT with sand (ML): brown, (7.5YR 4/3), moist, 25% clay, 50% silt, 20% fine sand, 5% fine gravel, medium plasicity ML 93.3 _____ CLAY (CH): brown (7.5YR 4/3), moist, 95% clay, 5% 2/17/30 MW-13 C -95.5 coarse sand, high plasticity. 0,0 СН 98.3 Bentonite Seal 00 ML Sandy SILT (ML): brown (7.5YR 4/3), moist, 60% silt, 40% fine sand, low plasticity. 9/12/15 0.0 MW-13 C -100.5 101.5 Bottom of Boring @ 101.5 fbg

	CLIENT I JOB/SITI LOCATIO PROJEC DRILLEF DRILLIN	NAME E NAME DN ST NUMB S G METH	ER -	Cone 5900 Eme Telej Fax: Shell 8999 2407 Casc Hollo	estoga Hollis ryville, ohone: 510-4 <u>Oil Pro</u> - brand San Ra 24 ade Dri w-stem	Rove Stree CA 9 510- 20-91 ducts led Se amon F	rs & A et, Suit 4608 420-0 70 <u>US</u> <u>rvice S</u> Road, I	ssociates e A 700 tation Dublin, CA	BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED WELL DEVELOPMENT D/ GROUND SURFACE ELE TOP OF CASING ELEVAT	MW-14B 17-Feb-11 01-Mar-11 ATE (YIELD) VATION	13-May-11 (76.0 gallons) 413.33 ft above msl 413.33 ft above msl		
	BORING	DIAME	ER _	8"					SCREENED INTERVALS		58 to 6	68 fbg	
	LOGGE	D BY		W. M	lartinez	0040	~ ~ ~		DEPTH TO WATER (First	Encountered)	40.	.00 fbg	
	REVIEW	ED BY		<u>P. 50</u>	ifed to f	<u>PG#50</u> 5	512		DEPTH TO WATER (Stati	с)	20.	.57 lbg (11-may-11) <u>-</u>	
	REMAR	15		AIIKI	neu to :	gui c					+	······································	
	PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHC	DLOGIC DESCRIPTION	-	CONTACT DEPTH (fbg)	WELL DIAGRAM	
								See boring log MW-	14C for lithology.				
WELL LOG (PID) INSHELLIG-CHARS/2407240724-1/244DE5-1/240724.GPJ DEFAULT.GDT 5/25/14													

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CLIENT JOB/SI LOCAT	NAME TE NAME ION		Cond 5900 Eme Tele Fax: Shell Shell 8999	estoga) Hollis ryville, phone: 510-4 <u>0il Pro</u> <u>- branc</u> San Ra	Rove Stree CA S 510 20-91 ducts led Se amon I	ers & A et, Sui 94608 420-0 170 US rvice S Road, I	Associates te A 9700 Station Dublin, CA	BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED	MW-14B 17-Feb-11 01-Mar-11				
PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	Continued fro.	m Previous Page		CONTACT DEPTH (fbg)	WELL DIAGRAM		
WELL LOG (PID) 1:NBHELLIG-CHARSV2407V2407241/240F24.GPJ DEFAULT.GDT 5/25/11											Portland Type I/II		

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PAGE 2 OF 4

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BORING / WELL LOG

JOB/SITE NAME LOCATION

WELL LOG (PID) INSHELLIG-CHARSI2407---240724--1/240E5--1/240724.GPJ DEFAULT.GDT 5/25/11

CLIENT NAME

Shell Oil Products US Shell - branded Service Station 8999 San Ramon Road, Dublin, CA BORING/WELL NAME **DRILLING STARTED** DRILLING COMPLETED MW-14B 17-Feb-11

Continued from Previous Page

01-Mar-11

(mqq) Olq	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM	
				 					✓ 2" diam., Schedule 40 PVC	
					. 1				-≪ Bentonite Seal	
				 60					Monterey Sand #2/12	
					- - - - - -				✓ 2"-diam., 0.020" Slotted Schedule 40 PVC	

	22 22	· · · · · · · · · · · · · · · · · · ·		Cor 590 Em Tel Fax	nest 1 0 ery eph (; 5	toga l Iollis ville, ione: i10-42	Rover Stree CA 9 510-4 20-91	rs & A t, Suit 4608 420-0 70	ssociates a A 700		BORI	NG	/ WEI	LL LOG			
•	CLIENT JOB/SIT LOCATI	NAME E NAME ON		She She 899	9 S	il Proc brande an Ra	ducts (ed Ser mon R	<u>JS</u> vice Si toad, E	ation Jublin, CA	BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED	MW-14B 17-Feb-11 01-Mar-11						
_								· · · ·	Continued fro	om Previous Page	us Page						
	PID (ppm)	BLOW COUNTS	SAMPLE ID			UEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION		CONTACT DEPTH (fbg) METT		L DIAGRAM				
						-						68.0		Bottom of Boring @ 68 fbg			
				· · · · ·		r r											
11						-											
724.GPJ DEFAULT.GDT 5/25/				-													
407\240724-1\244DE5-1\240																	
JELL LOG (PID) INSHELLIG-CHARSV2			· · · · · · · · · · · · · · · · · · ·			•											

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5/25/11

DEFAULT.GDT

INSHELLNG-CHARS/2407--/240724-1/244DE5-1/240724.GPJ

LOG (PID)

WELL

PAGE 1 OF 5

BORING / WELL LOG Conestoga Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170 MW-14C Shell Oil Products US BORING/WELL NAME CLIENT NAME 18-Feb-11 JOB/SITE NAME DRILLING STARTED Shell - branded Service Station DRILLING COMPLETED 02-Mar-11 LOCATION 8999 San Ramon Road, Dublin, CA Continued from Previous Page CONTACT DEPTH (fbg) ⊵ PID (ppm) BLOW GRAPHIC LOG EXTENT ഗ് DEPTH (fbg) SAMPLE U.S.C. LITHOLOGIC DESCRIPTION WELL DIAGRAM

<u>SILT with sand (ML):</u> dark yellowish brown (10YR 4/4), moist, 25% clay, 60% silt, 15% fine sand, medium 5/5/5 MW-14 C-20.5 0.3 ML plasticity. 23.3 CLAY with sand (CL): brown (10YR 4/3), moist, 70% 4/9/10 clay, 10% silt, 20% fine sand, medium plasticity. MW-14 C-25,5 0.2 СL 28.3 30 SAND with silt (SP-SM): dark yellowish brown (10YR 8/10/10 SP-4/4), moist, 10% silt, 90% coarse sandl. MW-14 C-30.5 0.0 SM 33.3 Sandy CLAY (CL): dark yellowish brown (10YR 4/4), 7/9/12 moist, 50% clay, 20% silt, 30% fine sand, medium MW-14 C-35.5 0.0 plasticity. CL Portland Type I/II 38.3 SP X 40 SAND (SP): dark yellowish brown (10YR 4/4), moist, 5% 9/7/10 silt, 90% coarse sand, 5% gravel. 0.0 MW-14 C-40,5 41.0 CLAY with sand (CL): dark yellowish brown (10YR 4/4), moist, 80% clay, 5% silt, 15% fine sand, medium plasticity.

INSHELLIG-CHARS/2407--/240724~1/2440E5~1/240724.GPJ DEFAULT.GDT 5/25/11

WELL LOG (PID)

CLIENT NAME JOB/SITE NAME LOCATION

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Shell Oil Products US Shell - branded Service Station

DRILLING STARTED DRILLING COMPLETED 02-Mar-11

MW-14C 18-Feb-11

BORING / WELL LOG

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BORING/WELL NAME 8999 San Ramon Road, Dublin, CA Continued from Previous Page 1 Т

	PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
	0.6	95/6	MW-14 C-45.5			CĿ		@ 45 fbg; wet, 85% clay, 10% sand, 5% gravel, high plasticity.		
	4.3	9/5/8	MW-14 C-50.5			ML		<u>SILT with sand (ML):</u> dark yellowish brown, moist, 10% clay, 70% silt, 20% fine sand, medium plasticity.	48.3	
PJ DEFAULT.GDT 5/25/11	0.0	11/7/8	MW-14 C-56.5					<u>CLAY with sand (CL):</u> dark grayish brown (2.5Y 4/2), moist, 60% clay, 20% silt, 20% fine sand, medium plasticity.	53.3	
ARS\2407\240724-1\244DE5~1\240724.GI	0.0	9/12/15	MW-14 C-80.5			CL		@ 60 fbg; <u>Sandy CLAY with gravel (CL):</u> dark yellowish brown (10YR 4/4), wet, 65% clay, 20% fine sand, 15% fine gravel, low plasticity.		
WELL LOG (PID) INSHELLNG-CH.	0.0	10/10/10	MW-14		65	SP- SM		SAND with silt and gravel (SP-SM): yellowish brown (10YR 5/3), wet, 10% silt, 70% fine sand, 20% fine gravel. Sandy CLAY with gravel (CL): yellowish brown (10YR	63.3	

CLIENT NAME JOB/SITE NAME LOCATION

Shell Oil Products US BORING/WELL NAME Shell - branded Service Station DRILLING STARTED 8999 San Ramon Road, Dublin, CA

DRILLING COMPLETED

MW-14C 18-Feb-11

02-Mar-11

Continued from Previous Page

	PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
			C-60.5			CL		5/6), moist, 50% clay, 30% sand, 20% gravel, low plasticity.	68.3	
	0.1	4:4]4	MW-14 C-70.5		—70— 	SP- SM		<u>SAND with silt and gravel (SP-SM):</u> yellowish brown (10YR 5/6), wet, 10% silt, 70% fine sand, 20%fine gravel.	.71.0	
5/25/11.	0.0	445/5	MW-14 C-75.5			CL		<u>Sandy CLAY with gravel (CL):</u> yellowish brown (10YR 5/6), moist, 50% clay, 30% sand, 20% gravel, low plasticity.	78.3	
244DE5-1/240724.GPJ DEFAULT.GDT	0.0	6/8/10	MW-14 C-80.5					<u>CLAY (CH):</u> yellowish brown (10YR 5/6), moist, 90% clay, 5% fine sand, 5% fine gravel, high plasticity.		2" diam., Schedule 40 PVC
) I:\SHELL\6-CHARS\2407-\240724-1	0.0	6/15/20	MW-14 C-85,5		 85 	СН				✓ Bentonite Seal
WELL LOG (PID					 			Continued Next Page		✓ Monterey Sand #2/12

BORING / WELL LOG

BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

Shell Oil Products US Shell - branded Service Station

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

MW-14C 18-Feb-11

02-Mar-11

Continued from Previous Page

	PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
	0.0	9/9/16	MW-14 C-90,5		- 90	· · · · · · · · · · · · · · · · · · ·		<u>Sandy CLAY (CL):</u> dark yellowish brown (10YR 3/6), moist, 50% clay, 20% silt, 20% fine sand, 10% fine gravel, medium plasicity.	90.5	
	0.0	9/12/18	MW-14 C-95.5			CL		@ 95 fbg; yellowish brown (10YR 5/6), 60% clay, 40% sand, low plasticity.		✓ 2"-diam., 0.010" Slotted Schedule 40 PVC
PJ DEFAULT.GDT 5/25/11	0.0	779/14	MW-14 C-100.5					@ 100 fbg; <u>CLAY (CL):</u> yellowish brown (10YR 5/6), 90% clay, 5% silt, 5% fine gravel, medium plasticity. @ 100.5 fbg; <u>Gravelly CLAY (CL):</u> wet, low plasticity. @ 101 fbg; <u>Sandy CLAY (CL)</u> .	_101.5	Bentonite Seat Bottom of Boring @ 101.5 fbg
LL LOG (PID) INSHELLV6-CHARS/2407/2407241/244DE51/240724.GF										

			Project	No:	SJ89-99	-1 S-1	(Clien	it:	Shell Oil Products U	JS	Boring No: GP-1
			Logged	By:	Heather	Buckingh	am l	Loca	tion:	8999 San Ramon R	d., Dublin	Page 1 of 2
		+	Driller:		Gregg		[Date	Drilled:	5/2/2005	Location Map	
	Jei	la	Drilling 1	Method:	Direct P	ush	H	Hole	Diamete	er: 3″		
	•••		Samplin	ng Method:	GeoPro	be	ł	Hole	Depth:	28 ft	Please se	e site map
Er Er	vironm	ental	Casing '	Туре:			١	Well	Diamete	er:		
င၀၊	nsultant	s, Inc.	Slot Siz	e:			١	Well	Depth:			
			Gravel F	Pack:		<u>.</u>	(Casir	ng Sticki	up:		
				Elevation			North	ng		Easting		
	Well			5	T	~				I		· · · · · · · · · · · · · · · · · · ·
Cor	moletion	Static	ent	adin 🖯	ation (/6")	feet	Sam	ple	ype			·
¥fil	gnia	Water	ont	Ppr Bpr	ows	ţ.	Ne.	val		LITI	HOLOGY /	DESCRIPTION
Bac	Ca	Level	20	DIA	8 0	Del	l Sec	Inte	Ň			
	8				•		┼╨┬		AF	Asphalt 6", Base rock	4"	
											·	
	× _								SM	Silty SAND: light brow	'n; 20-30%	silt; fine to coarse grained
						2				sand, well graded		
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e H			drv			5			· · · · ·	Lean CLAY with Sand	l verv darl	c brown: light brown
									CL	fine grained sand pock	ets 0.5 cm	in diameter: ~85% fines:
						6				~15% sand; moderate	plasticity:s	oft
	×				↓						<u> </u>	
					·	·						
						8						
						9—						
									GW	Well Graded GRAVEL	with San	d : light tan; 70-80%
			day	12.2		10				gravel 0.5 to 1" in lengt	th; rounded	1; 20-30% coarse grained
			ury	12.2					CI	Lean CLAV: very dark	draw no r	ottling: 00.05% fines
						11				traces of fine grained s	and (~5%)	moderate plasticity: stiff
	. —									adood of fine grained a		, moderate plasticity, still
						12				,,,		
						40 -					· <u>-</u>	
						14	And Control of the second seco					
]						(same as above	, dark brow	vn)
			. جالم			15 —						
			ary	21.8						(same as above	, medium l	prown mottling)
						16 —						······
										(same as above	no mottlie	
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			dry	9								
						21				(same as above	, product s	taining)
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		Project I	No:	SJ89-99	S-1	Clien	it:	Shell Oil Products US Boring No: GP-2
	Logged	By:	Heather	Buckingha	ım Loca	tion:	8999 San Ramon Rd., Dublin Page 2 of 2	
	1_	Driller:		Gregg		Date	Drilled:	5/1/2005 Location Map
l)ei	IA.	Drilling N	Method:	Direct P	ush	Hole	Diamete	er: 3"
	LCA	Samplin	g Method:	GeoPro	be	Hole	Depth:	28 ft Please see site map
Environm	ental	Casing 1	Гуре:			Well	Diamete	er.
Consultant	s, Inc.	Slot Size	э:			Well	Depth:	
		Gravel F	Pack:			Casi	ng Stick	ıp:
			Elevation			Northing		Easting
Well	<b>I</b>		_	1			<u> </u>	
Completion	Static	9 년	ding (	6")	eet)	Sample	e e	
lit E	Water	istu	рш	etra ws/	th (fi	ery /ai	Ē	LITHOLOGY / DESCRIPTION
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			<u>ц</u>			<u>~</u> ≃		
- المحقق								Lean CLAY with Sand (Continued)
XXXX —	-				23		CIN	Wall Graded CDAVEL with Candy light targe 70,000(
					—		000	gravel 0.5 to 1" in longth; rounded; 20, 20% ecores grained
					24 —			sand
ont so							CL	Lean CLAY with Sand: same as above
<u>ច្រ</u>		moist	29.1		25			
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- IXXX					20			
					27 —			
××××× —					28 —	것은 같은 것		Boring terminated at 28 feet below ground surface
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	to	Drilling N	lothod:	Direct D	uch		Diamat	0/1/2000	Location Map			
	la		vietnoa.		usn	FIDIE		er: 3	<b>D</b>			
		Samplin	g Method:	GeoPro	be	Hole	Depth:	28 ft	Please se	e site map		
Environm	ental	Casing 1	ype;			Wel	Well Diameter:					
Consultant	s, Inc.	Slot Size	):			Wel	I Depth:					
		Gravel P	ack:		1	Cas	Jasing Stickup:					
			Elevation			Northing		Easting				
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Completion	Static	e t	ding -	io 💭	et)	Sample	e e					
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××××					24		CL	Lean CLAY: medium	brown to v	erv dark brown: ~85-90%		
[ 5 8 –								fines; ~10% sand; tra	ce gravels	up to 1" in length:		
<u>ات</u> 🖁 —		moist	29.1		25			moderate plasticity: s	tiff	-p <u>,,</u>		
·····					-		CL	Lean CLAY with sar	id: verv dar	k brown ⁻ 10-20% very fine		
					26			grained sand: modera	ate to high i	plasticity: stiff		
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	-							Boring terminated at '	28 feet held	w around surface		
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		Project I	No:	SJ89-99	IS-1	Client:		t:	Shell Oil Products	US	Boring No; GP-5
		Logged	By:	Heather	eather Buckingham Loca			tion:	8999 San Ramon I	Rd., Dublin	Page 2 of 2
	1 -	Driller:		Gregg			Date	Drilled:	5/3/2005	Location Map	· · · · · · · · · · · · · · · · · · ·
l)ei	TA.	Drilling N	lethod:	Direct P	ush Hole Diameter:				er: 3"		
	^c	Samplin	g Method:	GeoProl	be		Hole	Depth:	28 ft	Please se	ee site map
Environm	ental	Casing 7	Гуре:				Well	Diamete	er:		
Consultant	ts, Inc.	Slot Size	9:				Well	Depth:			
		Gravel F	Pack:				Casir	ng Stick	up:		
			Elevation			Nort	ning		Easting		
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	Project N	lu.	S.189-99	S-1	Clien	t.	Shell Oil Products	US	Boring No: GP-6	
	Logged F	3v:	Heather	Buckingha	am Loca	tion [,]	8999 San Ramon I	Rd Dublin	Page 2 of 2	
	Driller	Jy.	Green	Duckingha	Doto	Drillod:	5/1/2005	Lesstion Men		
Dalta		E. ()	Greyy	- 1-	Date	Drilled:	5/1/2005	Location Map		
		ietnoa:	Direct P	usn	Hole	Diamete	er: 8"	D		
	Sampling	g Method:	GeoProl	be	Hole	Depth:	ter			
Environmental	Casing T	ype:			Well	Diamete	er:			
Consultants, Inc.	Slot Size				Well	Depth:				
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						GM	GRAVEL with Silt: sa	ame as abo	ove, product staining	
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				26		CL	Lean CLAY: medium	brown; mo	derate plasticity; stiff	
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			Project N	No:	SJ89-99	S-1		Client		Shell Oil Products US Boring No: GP-7
			Loaged	Bv:	Heather	Buckingha	uckingham L		ion	8999 San Ramon Rd., Dublin Page 2 of 2
			Driller:	-,,	Grenn			Date	Drilled	1: 5/2/2005 Location Man
	וס(	to.	Drilling N	Jethod:	Direct P	ueb	sh Hole		Diamet	ater: 8"
L	ノ し	la	Complin	a Mathad	CooDrol	u311		Hole Depth		Bloaso soo sito man
▎┍	<b>.</b>		Samping	g Metrioa:	GeoPro	be		Hole Depth:		28 π Flease see site map
	vironme	ental	Casing	уре:				vvell I	Diamete	iter:
	nsultants	s, Inc.	Slot Size	∋: 		•		Well	Depth:	
			Gravel P	ack:		r	Casing		ig Stick	xkup:
				Elevation			North	ing		Easting
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			Proiect N	No:	SJ89-99	S-1		Clien	t:	Shell Oil Products US Boring No: GP-8
			Logged I	By:	Heather	Buckingha	am	Loca	tion:	8999 San Ramon Rd., Dublin Page 1 of 2
	N . I	1	Driller:	-	Gregg	_		Date	Drilled:	5/2/2005 Location Map
	) <b>)</b>   '	ta	Drilling N	Aethod:	Direct P	ush		Hole	Diamete	er; 3"
		^l	Sampling	a Method:	GeoPro	be		Hole	Depth:	28 ft Please see site map
Fr	vironme	ental	Casing T	fvne:				Well	Diamete	er'
Cor	neultante		Slot Size					Well	Denth [.]	
00	Iountanta	5, 110.	Gravel P	n Pack:				Casi	na Sticki	up.
			0,2,0,1	Elevation			Northing			Fasting
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Cor	noletion	Static	arte	dir (۱	/6")	fee	Sa	mpie	be	
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			wot		I T			+	AF	Asphait 6 , Base rock 4
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							+			sand well graded: product staining
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jō j						6			UL	Lean CLAY with Sand: medium brown with orange
						_				mottling; 85-90% fines; 10-15% fine grained sands in tan
					*	7 —		Deserver		sand pockets 0.5 cm in diameter; 1-2% gravels up to 0.5"
							_			in diameter; moderate plasticity; soft
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						11		- Constant		·
			wet							
						12				·
							1.1.1			Sandy Lean CLAY: medium brown; 65-75% fines; 25-35%
			ł			13			CL	very fine grained sand, poorly graded; moderate to high
	4 _									plasticity; soft
	g		damp			14	2003CS			
****	g								CL	Lean CLAY with Sand: medium brown with orange
****						15				mottling; 10-20% fine grained sand in tan sand pockets
****				3.5						0.5 cm in diameter; moderate to high plasticity; soft;
						16				bottom 3" to 5" poorly graded fine grained sand; tan; trace
	{ _									gravels 0.5" in diameter; loose
						17				
						18				
			damp							
						19				
	g					10				
						20		rd1		
****				2.5						
						21				
						22				Lean CLAY: dark gray; 90-95% fines; trace coarse grained
	ě –					22			CL	sand; moderate plasticity; stiff

Delta Environmental Consultants, Inc.	Project No: Logged By: Driller: Drilling Method: Sampling Method: Casing Type: Slot Size: Gravel Pack: Elevatior	SJ89-99 Heather Gregg Direct P GeoProl	9S-1 Buckingham ush be No	Client Locat Date Hole Well I Well I Casin	:: Drilled: Diamete Depth: Diamete Depth: ng Stick	Shell Oil Products US 8999 San Ramon Rd., Dublin 5/4/2005 Page 2 of 2 Location Map Please see site map Please see site map Please see site map		
Well Completion Static E 5 Water S se E Level	Moisture Content PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Juterval	Soil Type	Lנז	/ DESCRIPTION	
	125		23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44		CL	SILT with Sand (Cor Lean CLAY with Sar greenish gray; 10-159 high plasticity; very st Boring terminated at 2	Itinued) Itinued) Itinued) Itinued) Itinued	n brown mottled with grained sand; moderate to ow ground surface

Weath Bar Bar Bar Bar Bar Bar Bar Bar Bar Bar	En Con	Project No: SJ89-99S-1 Logged By: Heather Buckingham Driller: Gregg Drilling Method: Direct Push Sampling Method: GeoProbe Casing Type: Slot Size: Gravel Pack: Elevation Nor				Clier Date Date Hole Hole Well Cas Northing	nt: tion: Drilled: Damete Depth: Diamete Depth: ing Stick	Shell Oil Products 8999 San Ramon 5/4/2005 er: 3" 28 ft er: up: Easting	Boring No: GP-10 Page 2 of 2			
dry dry 23 CL Lean CLAY: continued 24 SC Clayey SAND; gray; 60-75% very fine to coarse grained sand; 354-40% fines; traces of gravels; 2-3 mm in length dry wet 119 25 SC Clayey SAND; gray; 60-75% very fine to coarse grained sand; 354-40% fines; traces of gravels; 2-3 mm in length dry wet 119 25 SC Clayey SAND; same as above 26 SC Clayey SAND; same as above 26 27 27 CL Lean CLAY with sand; gray; 80-90% fines; 10-20% very fine grained sand; moderate to high plasticity, stiff 28 Boring terminated at 28 feet below ground surface 29 30 31 32 33 34 34 35 36 37 38 39 40 41 42	Backfill O	Vell Indetion Gasing O	Static Water Level	Moisture Content	PID Reading (ррт)	Penetration (blows/6")	Depth (feet)	Recovery Interval	Soil Type	LIT	[HOLOGY]	/ DESCRIPTION
	Grout Contraction			dry wet dry	119		- 23 $ 23$ $ 23$ $ 24$ $ 25$ $ 26$ $ 27$ $ 28$ $ 29$ $ 30$ $ 31$ $ 32$ $ 33$ $ 33$ $ 33$ $ 34$ $ 35$ $ 36$ $ 37$ $ 38$ $ 39$ $ 40$ $ 41$ $ 42$ $ 43$ $ 43$ $ 43$ $ 43$ $ -$		CL SC CL CL	Lean CLAY: continue Clayey SAND: gray; i sand; 35-40% fines; t Lean CLAY: light to r sand; soft; moderate Clayey SAND: same Lean CLAY with sar fine grained sand; mo Boring terminated at 2 	ed 60-75% ver traces of gra nedium bro plasticity as above nd: gray; 80 oderate to h 28 feet belo	y fine to coarse grained avels 2-3 mm in length wwn; trace fine grained 90% fines; 10-20% very high plasticity; stiff ow ground surface

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Delt Environment Consultants,	a a b b c c c c c c c c	Project N .ogged E Driller: Drilling M Sampling Casing T Slot Size Gravel Pa	lo: 3y: lethod: g Method: ype: : ack: Elevation	SJ89-99 Heather Gregg Direct P GeoProt	9S-1 Clier r Buckingham Loca Date Push Hole be Hole Well Well Casi			: ion: Drilled: Diamete Depth: Diamete Depth: g Sticki	Shell Oil Products US Boring No: GP-11 8999 San Ramon Rd., Dublin Page 2 of 2 5/4/2005 Location Map er: 3" 28 ft Please see site map er: Locating				
Well S noibelomo W G S S C S S C B C B C B C C B C C B S C S C	Static Vater _evel	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	San Kecovery S	Interval ad	Soil Type	LITH	IOLOGY	DESCRIPTION		
		wet	53.6		23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44			CL	Lean CLAY with Sand	2: continue	ed		

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			Project N	No:	SJ89-99	S-1		Clien	t:	Shell Oil Products	US	Boring No: GP-12	
			Logged I	Ву:	Heather	Buckin	gham	Locat	tion:	8999 San Ramon F	Rd., Dublin	Page 1 of 2	
		1_	Driller:		Gregg			Date	Drilled:	5/4/2005	Location Map		
	<u>Je</u> r	IA.	Drilling N	/lethod:	Direct P	ush		Hole	Diamete	er: 3"			
		^c	Samplin	g Method:	GeoProl	be		Hole	Depth:	28 ft	Please se	ee site map	
Er	nvironme	ental	Casing 1	Гуре;				Well	Diamete	er:			
Co	nsultants	s, Inc.	Slot Size	e:				Well Depth:					
		,	Gravel P	ack:				Casir	ng Sticku	up:			
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cki	asin	Level	Cor	к <u>е</u>	sher	pt -	No.	ers	lioi		HOLOGI	DESCRIPTION	
Ва	õ			IId	l d e	۱ă	Rec	Int	0,				
	. –				1				AF	Asphalt 6", Base rock	4"		
						1-				Lean CLAY with San	d: yon, do	rk brown with modium	
****	8 —									brown mottling: 00.05	0/ finoe: 1	0.15% fine grained and in	
****	8					2-	_			top cond pookota -0.5	70 mies, i	meter mederate plasticity	
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			day			8-	1963 - S						
****								7	SP	Boorly Graded Sand	: ton: 00.0	5% fine grained cond	
****	×					9-				traces of gravele up to		o % line grained sand,	
									0	Loop CLAY with Son			
	8			na		10 —	200			mottling: etiff	iu. same a	is above, less orange	
****	8			0.5						mouning, sun			
*****						11	22.230-27 22.230-27 22.230-27						
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****						12 —	and the first						
***							Sector Sector		SP	Clavey SAND: grand	eh tan: 60	70% fine grained nearly	
****						13—				graded sand: 30 40%	finos: tros	-7 0 70 mile gramed poorly	
	8 B									graueu sanu, 30-40%	nnes, tiac	es of coalse grained sand	
****	8 —					14		12772823 1277282					
							an ann an Anna A Sanna Martin an Anna A Martin an Anna A Martin an Anna A						
****				37		15							
				0.7			n constitution and constitution		CI	Sandy Lean CLAY: n	nedium br	own mottled with orange:	
***	8					16 —	Sec. Victoria			70-75% fines: 25-30%	fine arein	ed sand: moderate	
										plasticity: stiff	o nito grai	ica sana, moderale	
						17 —	and the second s						
	8					18 —				· · · · · · · · · · ·			

						19			CL	Sandy Lean CLAY: n	nedium ar	av: 55-65% fines: 35-45%	
				0.9			Contraction of the second seco			fine grained poorly gra	aded sand	traces of gravels ~3 mm	
				0.0		20	And the second s			in diameter: low plasti	city	, 11000 01 graveis -0 11111	
						21 —				·····			
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Delta Environmental Consultants, Inc.	Project No: Logged By: Driller: Drilling Method: Sampling Method: Casing Type: Slot Size: Gravel Pack:	SJ89-99 Heather Gregg Direct Pl GeoProt	S-1 Buckinghar ush be	Client Date Date Hole I Well I Well I Casin	: ion: Diamete Depth: Diamete Depth: g Sticki	Shell Oil Products US 8999 San Ramon Rd., Dublin 5/3/2005 er: 3" 28 ft up: Easting Boring No: GP-13 Page 2 of 2 Location Map Please see site map
Well	p		£			
Completion Static	Moisture Content PID Readir (ppm)	Penetratio (blows/6")	Depth (fee	Recovery Secovery Secovery Secovery Secovery Secovery Second Seco	Soil Type	LITHOLOGY / DESCRIPTION
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	dry		24 —			· · · · · · · · · · · · · · · · · · ·
erou'			25			(same as above, very stiff)
	wet 2.6		26			
			27—			
	dry		28			Boring terminated at 28 feet below ground surface
 			29			
			30			
			31			
			32			
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			33			
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United Direct Operation of the Direct Page 1 of 2 Environmental Consultants, Inc. Direct Plank Helde Directs SV2005 Status Direct Plank Helde Directs SV2005 Direct Plank Northing Exercise Direct Plank Northing Exercise Direct Plank Status Status Status Status Status Status				Project N	lo:	SJ89-99	S-1		Clien	t	Shell Oil Products US Boring No: GP-14
Decision Difference Crease Tomos Tom				Logged I	By:	Heather	Buckingham Loca		Loca	tion:	8999 San Ramon Rd., Dublin Page 1 of 2
Uperiod Implies Method: Consultants, inc. Provide Park Hole Diameter: 2* Please see site map Environmental Consultants, inc. Samstan Method: General Type: Well Diameter: 2* Please see site map Well Diameter: Consultants, inc. Samstan Method: General Type: Well Diameter: 2* Please see site map Well Diameter: Consultants, inc. Samstan Method: General Park Method: Consultants, inc. Please see site map Well Diameter: Consultants, inc. Samstan Method: Samstan Method: Consultants, inc. Please see site map Well Diameter: Consultants, inc. Samstan Method: Samstan Method: Consultants, inc. Please see site map Well Diameter: Consultants, inc. Samstan Method: Samstan Method: Consultants, inc. Please see site map Well Diameter: Consultants, inc. Samstan Method: Samstan Method: Consultants, inc. Please see site map Well Diameter: Consultants, inc. Samstan Method: Samstan Method: Consultants, inc. Consultants, inc. Consultants, inc. Well Diameter: Samstan Met		N I	1	Driller:		Gregg	-		Date	Drilled:	5/1/2005 Location Map
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Environmental Consultants, Inc. Casing Type: Stor Siz: Casing Placit: Well Comment: Consultants, Casing Strate. Grave Placit: Motting Easting Committeen age of casing Type: Base Place Base	╽╹┏┓		u	Sampline	a Method:	GeoProl	е	Hole Der			27 ft Please see site map
Consultants, Inc. Status Same Grave Pack: Well Cepth. Committion mail Status Bardel Ba	l Er	vironme	ental	Casing 1	vpe:				Well	Diamete	er:
Cannot Stocup Veriling Easting Understand Static Barge <	Cor	nsultant	s. Inc.	Slot Size); ;				Well	Depth:	
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6 CL Sandy Lean CLAY: medium brown mottled with orange; 70-75% fines; 25:30% fine grained sand in tan sand pockets; moderate to high plasticity; stiff 8 9 9 10 10 11 12 13 14 12 13 14 14 15 53.5 15 16 17 17 (Same as above, medium brown with orange mottling) 18 19 19 20 21 21 21 21				dry			C				· · · · · · · · · · · · · · · · · · ·
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		3			22.0		20 —				(Same as above trace gravels 2 mm in length)
				damp			21 —				
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			а. -				22 —				





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