

Xtra OIL COMPANY

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7:53 am, Aug 28, 2012

Alameda County
Environmental Health

August 27, 2012

Ms. Karel Detterman
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

SUBJECT: SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT
CERTIFICATION
County Case # RO 191
Xtra Oil Company
1701 Park Street
Alameda, CA

Dear Ms. Detterman:

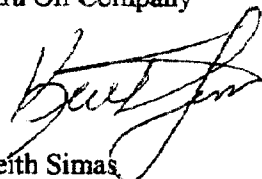
P&D Environmental, Inc. has prepared the following document:

- Semi-Annual Groundwater Monitoring and Sampling Report (January Through June 2012) dated August 27, 2012 (document 0058.R21).

I declare under penalty of perjury that the contents and conclusions in the document are true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to contact me at (510) 865-9506.

Sincerely,
Xtra Oil Company



Keith Simas

0058.L49

P&D ENVIRONMENTAL, INC.

55 Santa Clara Avenue, Suite 240

Oakland, CA 94610

(510) 658-6916

August 27, 2012

Report 0058.R21

Mr. Ted Simas
Mr. Keith Simas
Xtra Oil Company
2307 Pacific Ave.
Alameda, CA 94501

**SUBJECT: SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT
(JANUARY THROUGH JUNE 2012)**
County Case # RO 191
Xtra Oil Company
1701 Park Street
Alameda, CA

Gentlemen:

P&D Environmental, Inc. (P&D) is pleased to present this report documenting the semi-annual monitoring and sampling of the four historical groundwater monitoring wells (MW1 through MW4), and the monitoring and sampling of four wells installed for proposed site remediation (EW2, EW4, EW5, and OW2) at the subject site. Wells EW2, EW4, EW5, and OW2 were installed on May 18 and 19, 2011 in accordance with P&D's Groundwater Extraction Feasibility Test Work Plan dated April 15, 2011 (document 0058.W4). Well monitoring was performed for all of the wells, and sampling was performed on June 21, 2012. The reporting period is for January through June 2012.

In a letter from the Alameda County Department of Environmental Health (ACDEH) dated July 24, 2009 P&D was asked to review historical monitoring and sampling results, determine during which quarters contaminant concentrations were at their highest, and conduct semi-annual monitoring and sampling during those quarters (during either the first and third or the second and fourth quarters). Based on our review, semi-annual monitoring and sampling events are to be scheduled during the second and fourth quarters starting in 2009. Also at the request of the ACDEH analysis of the groundwater samples was performed for fuel oxygenates including TBA and lead scavengers using EPA Method 8260B. A Site Location Map (Figure 1) and Site Vicinity Map (Figure 2) are attached with this report. In the second half of 2011 the case was assigned to caseworker Karel Detterman.

BACKGROUND

A detailed discussion of the site background, historical monitoring and sampling, and historical investigations are provided in P&D's Remedial Action Work Plan (RAWP) dated October 24, 2007 (document 0058.W2), P&D's Corrective Action Plan (CAP) dated October 11, 2010 (document 0058.W3), and P&D's Site Conceptual Model Report dated October 8, 2010

(document 0058.R10). As an interim step for implementation of the CAP, P&D prepared a Groundwater Extraction Feasibility Work Plan dated April 15, 2011 (document 0058.W4) to verify the feasibility of groundwater extraction at the site with a selected number of wells identified in the RAWP. On May 18 and 19, 2011 P&D oversaw the installation of dual phase extraction wells EW2, EW4, and EW5 and observation well OW2 at the subject site. The wells were installed in accordance with procedures identified in P&D's October 24, 2007 RAWP and P&D's April 15, 2011 Groundwater Extraction Feasibility Work Plan.

FIELD ACTIVITIES

Water levels were measured in monitoring wells MW1 through MW4, and wells EW2, EW4, EW5, and OW2 once during the reporting period. The wells were monitored for depth to water to the nearest 0.01 foot using an electric water level indicator. Monitoring and sampling were performed on June 21, 2012. The monitoring data obtained during the reporting period is summarized in Table 1. Historical monitoring and sampling data obtained by others for the subject site are attached with this report as Appendix A.

Prior to sampling, wells MW1 through MW4, EW2, EW4, EW5, and OW2 were purged using low flow purge procedures in accordance with U.S. EPA 1996 guidelines. Purging was performed with a peristaltic pump and new polyethylene tubing for a minimum of fifteen minutes at each sampling location. New silicone tubing was used in the pump rollers at each well. The bottom of the tubing was set at a depth of approximately three to five feet above the bottom of each well, with the exception of MW4, where it was set near the bottom as the well has historically dewatered during purging. Purging was performed at a low flow rate of approximately 200 milliliters per minute to minimize turbulence and to minimize the likelihood of sediments in the samples. During purging operations, the field parameters of electrical conductivity, temperature, pH, dissolved oxygen, oxidation/reduction potential, turbidity, and depth to water were monitored and recorded on a groundwater monitoring/well purging data sheet for each well.

Petroleum hydrocarbon sheen was detected on the purge water from wells MW1 and MW2. Strong petroleum hydrocarbon odors were detected on the purge water from wells MW1, MW4, EW4, and EW5; moderate to strong petroleum hydrocarbon odors were detected on the purge water from well MW2; light to moderate petroleum hydrocarbon odors were detected on the purge water from wells EW2 and OW2; and no petroleum hydrocarbon odors were detected on the purge water from well MW3.

Once the wells had been purged for a minimum of fifteen minutes and the field parameters were observed to have stabilized, water samples were collected directly from the discharge tubing of the pump into 40-milliliter glass Volatile Organic Analysis (VOA) vials and 1-liter amber glass bottles which were sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to ensure that no air bubbles were present. The VOA vials and bottles were then transferred to a cooler with ice, pending transport to the laboratory. New tubing was used for each sample collection location. Chain of custody documentation accompanied the samples to the laboratory. Records of the field parameters measured during well purging are attached with this report.

HYDROGEOLOGY

Water levels were measured in monitoring wells MW1 through MW4, and wells EW2, EW4, EW5, and OW2 once during the reporting period. The measured depth to water for groundwater monitoring wells MW1 through MW4 on June 21, 2012 ranged from 6.00 to 7.18 feet. The measured depth to groundwater on June 21, 2012 in wells EW2, EW4, EW5, and OW2 was 6.39, 5.10, 4.91, and 5.15 feet, respectively. Groundwater level data collected during the monitoring period are presented in Table 1.

Monitoring wells MW1, MW2, and MW3 were installed in 1994, and well MW4 was installed in 1997. These four wells were surveyed in 1997, however the datum used for the survey is unknown. In June 2011 these four wells were resurveyed relative to the North American Vertical Datum of 1988 (NAVD 88) along with the new wells (EW2, EW4, EW5, and OW2). All of the calculated groundwater surface elevations in Table 1 beginning in 2011 are relative to the NAVD 88 datum. All of the calculated groundwater surface elevations for wells MW1 through MW4 prior to 2011 are relative to the unknown datum, which is presumed to be relative to the North American Geodetic Vertical Datum of 1929 (NGVD 29).

Based on the water levels measured in wells MW1, MW2 and MW3 on June 21, 2012 the calculated groundwater flow direction was to the southeast with a gradient of 0.0081. Since the previous monitoring and sampling event on November 28, 2011 the groundwater flow direction has shifted slightly towards the south and the gradient has increased from 0.0055. The calculated groundwater surface elevation contours based on the measured depth to the water surface in all of the wells at the subject site and the calculated groundwater flow direction based on the groundwater surface elevations in wells MW1, MW2 and MW3 are shown on Figure 2. The calculated groundwater flow direction on June 21, 2012 was not consistent with the historical northeasterly groundwater flow direction obtained using the groundwater surface elevation information from the nearby 1725 Park Street Exxon/Valero site in conjunction with groundwater surface elevation data from the subject site.

The locations of the subject site and the nearby 1725 Park Street Exxon/Valero site are shown in Figure 3. Historical groundwater flow direction information for both sites is shown in rose diagrams in the figure. In addition, the approximate historical northeasterly groundwater flow direction obtained using the groundwater surface elevation information from the 1725 Park Street Exxon/Valero site in conjunction with groundwater surface elevation data from the subject site is shown in Figure 3.

Comparison of the June 21, 2012 and November 28, 2011 water levels in the wells shows that the water levels were higher on June 21, 2012 in all of the wells by amounts ranging from 0.36 to 0.77 feet. Well MW4 is located in a planter. Historical smaller changes in water level in well MW4 relative to the other wells may be the result of landscape irrigation water preferentially draining to groundwater in the immediate vicinity of the well MW4 location.

LABORATORY RESULTS

The groundwater samples collected from wells MW1, MW2, MW3, MW4, EW2, EW4, EW5, and OW2 at the subject site were analyzed for Total Petroleum Hydrocarbons as Diesel (TPH-D) and Total Petroleum Hydrocarbons as Motor Oil (TPH-MO) using EPA Method 3510C in conjunction with EPA Method 8015B with silica gel cleanup; Total Petroleum Hydrocarbons as Gasoline (TPH-G) and methyl tertiary-butyl ether (MTBE), benzene, toluene, ethylbenzene, total xylenes (BTEX) using EPA Method 5030B in conjunction with modified EPA Method 8015B and EPA Method 8021B; and for Fuel Oxygenates and Lead Scavengers by EPA Method 5030B in conjunction with EPA Method 8260B.

No analytes were detected in the groundwater sample collected from well MW3. TPH-D was detected in the groundwater samples collected from wells MW1, MW2, MW4, EW2, EW4, EW5, and OW2 at concentrations of 2,100, 1,600, 2,700, 280, 2,200, 4,900, and 840 micrograms per liter (ug/L), respectively; TPH-G was detected at concentrations of 17,000, 4,900, 12,000, 3,700, 9,600, 44,000, and 4,600 ug/L, respectively; and benzene was detected at concentrations of 1,800, 560, 49, 960, 270, 710, and 110 ug/L, respectively. The remaining BTEX compounds were detected at concentrations ranging from 9.5 to 8,800 ug/L. MTBE was detected using EPA Method 8021B in groundwater samples collected from wells MW2 and EW2 at concentrations of 180 ug/L at both locations, and using EPA Method 8260B MTBE was detected in the groundwater samples collected from wells MW1, MW2, EW2, EW4, EW5, and OW2 at concentrations of 49, 160, 120, 6.7, 6.5, and 5.4 ug/L, respectively, and tert-Butyl Alcohol (TBA) was detected in the same samples at concentrations of 110, 340, 140, 18, 57, and 60 ug/L, respectively.

Review of the laboratory analytical report shows that the laboratory described the detected TPH-D results for the samples from wells MW1, MW4, EW2, EW4, EW5, and OW2 as consisting of gasoline-range compounds, and the sample from well MW2 as consisting of both gasoline-range compounds and diesel-range compounds, without a recognizable pattern.. The laboratory analytical results are summarized in Table 2. Copies of the laboratory analytical reports and chain of custody documentation are attached with this report.

Since the previous sampling event on November 28, 2011 all analyte concentrations in well MW3 have remained not detected, and all analyte concentrations have decreased in the following wells EW2, MW1, EW4, EW5, and OW2 with the following exceptions which increased:

- toluene, ethylbenzene, and total xylenes in well MW1,
- TPH-G and TPH-D in well EW4,
- TPH-D in well EW5, and
- ethylbenzene in well OW2.

Since the previous sampling event on November 28, 2011 all analyte concentrations increased in wells MW2 and MW4 with the exceptions of TPH-MO, TPH-D, and ethylbenzene in well MW2; and benzene, MTBE and TBA in well MW4, which all decreased.

DISCUSSION AND RECOMMENDATIONS

The four historical groundwater monitoring wells at the subject site (MW1, MW2, MW3, and MW4) and the four wells related to proposed site remediation (EW2, EW4, EW5, and OW2) were monitored and sampled on June 21, 2012. Monitoring and sampling is usually performed in conjunction with the monitoring and sampling event performed by ERI for the Exxon/Valero facility located at 1725 Park Street, however we were notified by ERI that monitoring and sampling is on hold at 1725 Park Street while the case is being reviewed for closure.

On June 21, 2012 the measured depth to water at the subject site ranged from 4.91 to 7.18 feet. Groundwater elevations increased in wells MW1 through MW4 by amounts ranging from 0.43 to 0.77 feet, and increased in wells EW2, EW4, EW5, and OW2 by amounts ranging from 0.36 to 0.65 feet since the last sampling event on November 28, 2011. The change in water level in well MW4 relative to the other wells has historically been suggested to be the result of landscape irrigation water preferentially draining to groundwater in the immediate vicinity of the well MW4 location.

Since the previous monitoring and sampling event on November 28, 2011 the groundwater flow direction has shifted slightly towards the south the gradient has increased from 0.0055 to 0.0081. The groundwater flow direction on June 21, 2012 was not consistent with the historical northeasterly groundwater flow direction obtained using the groundwater surface elevation information from the 1725 Park Street Exxon/Valero site in conjunction with groundwater surface elevation data from the subject site.

Petroleum hydrocarbon sheen was detected on the purge water from wells MW1 and MW2. Strong petroleum hydrocarbon odors were detected on the purge water from wells MW1, MW4, EW4, and EW5; moderate to strong petroleum hydrocarbon odors were detected on the purge water from well MW2; light to moderate petroleum hydrocarbon odors were detected on the purge water from wells EW2 and OW2; and no petroleum hydrocarbon odors were detected on the purge water from well MW3.

The sample results showed that no analytes were detected in well MW3. Analysis for fuel oxygenates and lead scavengers was performed during this sampling event, and the only fuel oxygenate or lead scavenger detected other than MTBE was TBA, with the highest MTBE concentration of 180 ug/L detected in both wells MW2 and EW2 using EPA Method 8021B and the highest TBA concentration of 340 ug/L detected in well MW2. Review of the water quality data shows that the highest concentrations of TPH-D, and TPH-G (4,900 and 44,000 ug/L, respectively) were encountered at well EW5, and the highest concentration of benzene (1,800) was encountered in well MW1.

Based on the results of the groundwater sample analysis, P&D recommends that the semi-annual monitoring and sampling program be continued for wells MW1, MW2, MW3 and EW5, with the remaining wells monitored for depth to water during future sampling events pending implementation of proposed remedial action at the site. P&D also recommends that the proposed Chemical Oxidation Injection Feasibility Test Work Plan dated December 19, 2011 be approved and implemented.

The presence of water preferentially migrating vertically in the vicinity of well MW4 could result in water quality dilution for samples collected from well MW4, resulting in water quality data that is not representative of conditions in the vicinity of MW4. P&D also recommends that irrigation drainage in the landscaping in the vicinity of well MW4 also be evaluated in an effort to determine if a conduit is present for the rapid movement of irrigation water to the water table in the vicinity of well MW4.

DISTRIBUTION

A copy of this report will be uploaded to the ACDEH website, in accordance with ACDEH requirements. In addition, a copy of this report will be uploaded to the GeoTracker database.

LIMITATIONS

This report was prepared solely for the use of Xtra Oil Company. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities, which are used in this report.

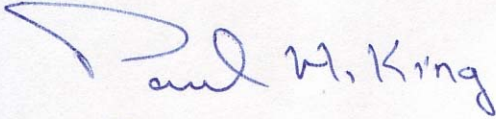
This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

August 27, 2012
Report 0058.R21

Should you have any questions or comments, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.



Paul H. King
Professional Geologist #5901
Expires 12/31/13



Attachments:

Table 1 - Well Monitoring Data

Table 2 - Summary of Laboratory Analytical Results

Figure 1 - Site Location Map

Figure 2 - Site Plan Showing Well Locations and Groundwater Surface Elevations

Figure 3 - Site Vicinity Map Showing Groundwater Surface Elevations

Groundwater Monitoring/Well Purging Data Sheets

Laboratory Analytical Reports and Chain of Custody Documentation

Appendix A - Historical Water Level and Water Quality Data for the Subject Site

PHK/sjc
0058.R21

TABLES

Table 1. Well Monitoring Data				
Well Number	Date Monitored	Top of Casing Elevation (ft- msl.)	Depth to Water (ft)	Water Table Elevation (ft-MSL.)
MW1	6/21/2012	22.36*	6.66	15.70
	11/28/2011		7.11	15.25
	6/16/2011		6.41	15.95
	5/26/2011		5.86	16.50
	5/24/2011		6.43	15.93
	11/18/2010	19.60**	7.78	11.82
	4/28/2010		6.35	13.25
	12/3/2009		7.84	11.76
	2/25/2009		6.07	13.53
	11/25/2008		7.91	11.69
	8/27/2008		8.03	11.57
	5/28/2008		7.28	12.32
	2/27/2008		6.15	13.45
	11/29/2007		7.82	11.78
	8/29/2007		8.29	11.31
	5/29/2007		7.44	12.16
	3/12/2007		6.34	13.26
11/6/2006	7.99	11.61		
MW2	6/21/2012	23.10*	7.18	15.92
	11/28/2011		7.61	15.49
	6/16/2011		6.89	16.21
	5/26/2011		6.90	16.20
	5/24/2011		6.90	16.20
	11/18/2010	20.31**	8.17	12.14
	4/28/2010		6.76	13.55
	12/3/2009		8.23	12.08
	2/25/2009		6.37	13.94
	11/25/2008		8.21	12.10
	8/27/2008		8.40	11.91
	5/28/2008		7.72	12.59
	2/27/2008		6.49	13.82
	11/29/2007		8.15	12.16
	8/29/2007		8.55	11.76
	5/29/2007		7.79	12.52
	3/12/2007		6.82	13.49
11/6/2006	8.25	12.06		
MW3	6/21/2012	23.35*	6.42	16.93
	11/28/2011		7.19	16.16
	6/16/2011		6.17	17.18
	5/26/2011		6.19	17.16
	5/24/2011		6.16	17.19
	11/18/2010	20.57**	7.93	12.64
	4/28/2010		6.00	14.57
	12/3/2009		7.83	12.74
	2/25/2009		5.42	15.15
	11/25/2008		7.83	12.74
	8/27/2008		8.23	12.34
	5/28/2008		7.36	13.21
	2/27/2008		5.75	14.82
	11/29/2007		7.88	12.69
	8/29/2007		8.31	12.26
	5/29/2007		7.26	13.31
	3/12/2007		6.03	14.54
11/6/2006	8.09	12.48		
MW4	6/21/2012	22.48*	6.00	16.48
	11/28/2011		6.62	15.86
	6/16/2011		5.79	16.69
	5/26/2011		6.41	16.07
	5/24/2011		5.82	16.66
	11/18/2010	19.69**	7.69	12.00
	4/28/2010		5.82	13.87
	12/3/2009		7.60	12.09
	2/25/2009		5.32	14.37
	11/25/2008		7.61	12.08
	8/27/2008		7.91	11.78
	5/28/2008		6.97	12.72
	2/27/2008		5.38	14.31
	11/29/2007		7.57	12.12
	8/29/2007		8.07	11.62
	5/29/2007		7.38	12.31
	3/12/2007		5.30	14.39
11/6/2006	7.60	12.09		

Table 1. Well Monitoring Data				
Well Number	Date Monitored	Top of Casing Elevation (ft-msl.)	Depth to Water (ft)	Water Table Elevation (ft-MSL.)
EW2	6/21/2012	22.13*	6.39	15.74
	11/28/2011		6.75	15.38
	6/16/2011		6.09	16.04
	5/26/2011		6.14	15.99
	5/24/2011****		6.12	16.01
EW4	6/21/2012	20.95*	5.10	15.85
	11/28/2011		5.51	15.44
	6/16/2011		4.72	16.23
	5/26/2011		4.77	16.18
	5/24/2011***		4.75	16.20
EW5	6/21/2012	21.20*	4.91	16.29
	11/28/2011		5.49	15.71
	6/16/2011		4.71	16.49
	5/26/2011		4.88	16.32
	5/24/2011***		4.74	16.46
OW2	6/21/2012	21.55*	5.15	16.40
	11/28/2011		5.80	15.75
	6/16/2011		4.80	16.75
	5/26/2011		4.82	16.73
	5/24/2011***		4.79	16.76

Abbreviations and Notes:
 * = Surveyed by Kier & Wright on June 9, 2011.
 ** = Surveyed by Andreas Deak in April 1997.
 *** = Prior to well development.
 ft-MSL = feet above mean sea level
 ft = feet

Table 2. Summary of Laboratory Analytical Results

Well Number	Sample Date	TPH-G	TPH-D	TPH-MO	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	Fuel Oxygenates & Lead Scavengers	
MW1	6/21/2012	17,000	2,100, c	ND<250	ND<500	1,800	420	500	1,500	ND, except TBA = 110	
	11/28/2011	18,000	2,600, c	ND<250	ND<600	2,600	410	410	1,200	MTBE = 49 ND, except TBA = 460,	
	5/26/2011	15,000	2,400, b,c	ND<250	ND<500	2,000	430	400	1,300	MTBE = 210 ND, except TBA = 570,	
	11/18/2010	21,000	1,900, b,c	ND<250	1,700	6,300	340	340	860	MTBE = 120 ND, except TBA = 3,300,	
	4/28/2010	19,000	2,800, b,c	260, b,c	840	3,400	680	500	1,600	MTBE = 1,500 ND, except TBA = 3,200,	
	12/3/2009	19,000	1,900, b, c	ND<250	1,500	4,500	670	400	1,300	MTBE = 750 ND, except TBA = 10,000,	
	2/25/2009	21,000	2,200, b,c	ND<250	ND<2,500	4,300	750	580	1,700	MTBE = 1,100 ND, except TBA = 17,000,	
	11/25/2008	20,000	2,400, c	ND<250	1,900	5,500	490	530	1,300	MTBE = 1,400 ND, except TBA = 16,000,	
	8/27/2008	46,000	5,200, c	ND<250	1,300	4,600	1,800	2,000	5,200	MTBE = 1,600 NA	
	5/28/2008	40,000	6,100, c	290	1,600	4,200	2,600	1,700	5,900	NA	
	2/27/2008	45,000	4,900, c	310	2,600	6,200	3,100	1,300	5,100	NA	
	11/29/2007	27,000	3,100, b,c	ND<250	2,600	4,700	930	770	2,600	NA	
	8/29/2007	26,000	3,900, b,c	470	3,200	5,400	1,400	810	3,000	NA	
	5/30/2007	22,000	3300, c	ND<250	ND<750	400	380	1,100	3,600	NA	
	3/12/2007	38,000	3,500, b,c	300	3,500	5,400	2,900	1,300	5,100	NA	
	11/6/2006	44,000,a	3,400, a,c	360	3,900	5,600	2,300	920	3,000	NA	
	MW2	6/21/2012	4,900	1,600, b,c	ND<250	180	560	14	36	12	ND, except TBA = 340,
		11/28/2011	4,900	2,900, c,d	420, c,d	ND<50	400	11	39	7.7	MTBE = 160 ND, except TBA = 72,
		5/26/2011	6,600	1,900, b,c	ND<250	ND<350	1,000	39	36	97	MTBE = 29 ND, except TBA = 480,
		11/18/2010	7,700, a	11,000, a,c,d	3,500, a,c,d	ND<35	640	16	74	14	MTBE = 210 ND, except TBA = 19,
4/28/2010		9,400, a	23,000, a,c,d	9,100, a,c,d	ND<250	1,200	35	40	29	MTBE = 22 ND, except TBA = 300,	
12/3/2009		7,700, a	6,900, a, b, c	2,000, a, b, c	ND<250	840	29	34	28	MTBE = 100 ND, except TBA = 200,	
2/25/2009		7,600, a	21,000, a,c,d	6,200	ND<160	810	18	46	24	MTBE = 61 ND, except TBA = 38,	
11/25/2008		8,700, a	23,000, a,c,d	6,400	14,e	740	15	90	27	MTBE = 31, 1,2-DCA = 2.7 ND, except TBA = 11,	
8/27/2008		13,000, a	9,200, a,c,d	2,200	ND<200	990	14	93	19	MTBE = 14 NA	
5/28/2008		12,000, a	25,000 a,c,d	7,200	ND<210	2,000	77	77	90	NA	
2/27/2008		11,000, a	21,000, a,c,d	6,800	ND<150	940	36	ND<10	22	NA	
11/29/2007		11,000, a	32,000, a,c,d	11,000	ND<50	1,000	28	120	31	NA	
8/29/2007		8,600, a	6,300, a, b, c	2,600	ND<100	1,300	36	48	48	NA	
5/30/2007		14,000, a	22,000, a,c,d	5,800	ND<210	2,200	51	100	99	NA	
3/12/2007		8,500, a	74,000, a, c,d	21,000	ND< 80	1,200	34	140	69	NA	
11/6/2006		14,000,a	45,000, a,c	11,000	ND<120	1,400	27	200	37	NA	
MW3		6/21/2012	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
		11/28/2011	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
		5/26/2011	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
		11/18/2010	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND
	4/28/2010	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	
	12/3/2009	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	
	2/25/2009	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	
	11/25/2008	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND	
	8/27/2008	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	
	5/28/2008	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	
	2/27/2008	ND<50	ND<50	ND<250	15	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	
	11/29/2007	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	
	8/29/2007	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	
	5/30/2007	ND<50	ND<50	ND< 250	ND< 5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	
	3/12/2007	ND< 50	ND< 50	ND< 250	ND< 5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	
11/6/2006	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA		

Table 2. Summary of Laboratory Analytical Results

Well Number	Sample Date	TPH-G	TPH-D	TPH-MO	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	Fuel Oxygenates & Lead Scavengers
MW4	6/21/2012	12,000	2,700, c	ND<250	ND<90	49	83	540	1,700	ND
	11/28/2011	6,000	2,200, c	ND<250	ND<50	86	63	350	1,200	ND, except TBA = 11, MTBE = 12
	5/26/2011	7,300	2,400, b,c	ND<250	ND<210	230	64	450	1,100	ND, except TBA = 74, MTBE = 80
	11/18/2010	5,900	1,100, b,c	ND<250	470	1,100	28	150	390	ND, except TBA = 690, MTBE = 540
	4/28/2010	6,300	1,400, c	ND<250	470	480	74	280	750	ND, except TBA = 350, MTBE = 360
	12/3/2009	6,300	1,200, c	ND<250	640	1,100	35	120	390	ND, except TBA = 600, MTBE = 390
	2/25/2009	11,000	2,200, c	ND<250	ND<300	350	120	490	1,400	ND, except TBA = 160, MTBE = 130
	11/25/2008	10,000	1,900, c	ND<250	270	630	130	390	1,500	ND, except TBA = 190, MTBE = 250
	8/27/2008	9,300	830, c	ND<250	ND<250	260	85	370	1,300	NA
	5/28/2008	2,200	1,400, c	ND<250	ND<30	16	38	100	320	NA
	2/27/2008	8,000	1,900, c	ND<250	ND<50	47	110	270	1,300	NA
	11/29/2007	12,000	2,800, c	ND<250	ND<180	260	230	580	2,500	NA
	8/29/2007	12,000, a	560, c	ND<250	660	910	200	750	2,200	NA
	5/30/2007	43,000	4,500, c	610	3,600	5,800	3,700	1,400	5,400	NA
	3/12/2007	19,000	3,100, e	ND< 250	370	560	450	1,100	4,400	NA
	11/6/2006	23,000	4,300,c	850	ND<900	680	250	930	3,100	NA
EW2	6/21/2012	3,700	280, c	ND< 250	180	960	9.5	20	16	ND, except TBA = 140, MTBE = 120
	11/28/2011	4,600	960, c	ND< 250	260	1,600	15	62	38	ND, except TBA = 270, MTBE = 270
	5/26/2011	2,700	560, b,c	ND< 250	ND<150	580	7.9	10	80	ND, except TBA = 290, MTBE = 97
EW4	6/21/2012	9,600	2,200, c	ND< 250	ND<75	270	22	340	290	ND, except TBA = 18, MTBE = 6.7
	11/28/2011	8,300	2,000, c	ND< 250	ND<150	520	40	510	530	ND, except TBA = 89, MTBE = 16
	5/26/2011	2,800	500, b,c	ND< 250	ND<150	99	9.9	20	300	ND, except TBA = 110, MTBE = 83
EW5	6/21/2012	44,000	4,900, c	ND< 250	ND<1,000	710	2,400	2,300	8,800	ND, except TBA = 57, MTBE = 6.5
	11/28/2011	48,000	3,500, b,c	ND< 250	ND<400	930	3,400	2,400	9,000	ND, except TBA = 110, MTBE = 48
	5/26/2011	35,000	3,600, b,c	ND< 250	ND<450	1,000	2,700	850	11,000	ND, except TBA = 250, MTBE = 86
OW2	6/21/2012	4,600	840, c	ND< 250	ND<45	110	46	160	590	ND, except TBA = 60, MTBE = 5.4
	11/28/2011	5,300	1,100, b,c	ND< 250	ND<130	350	170	24	790	ND, except TBA = 210, MTBE = 50
	5/26/2011	450	430, b,c	ND< 250	ND<5.0	0.87	0.71	ND<0.5	7.7	ND, except TBA = 350, MTBE = 3.6

Abbreviations and Notes:

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
 TPH-D = Total Petroleum Hydrocarbons as Diesel
 TPH-G = Total Petroleum Hydrocarbons as Gasoline
 MTBE = Methyl tertiary-butyl ether
 TBA = tert-Butyl alcohol.
 1,2-DCA = 1,2-Dichloroethane
 ND = Not Detected.
 NA = Not Analyzed.
 a = Laboratory Note: lighter than water immiscible sheen/ product is present
 b = Laboratory Note: diesel range compounds are significant; no recognizable pattern
 c = Laboratory Note: gasoline range compounds are significant
 d = Laboratory Note: unmodified or weakly modified diesel range compounds are significant
 e = Analysis by EPA 8260B as part of fuel oxygenate analysis. All other results for MTBE and all results for BTEX are by EPA 8021B.
 Results are in micrograms per liter (µg/L), unless otherwise noted.

FIGURES

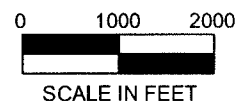


FIGURE 1
 Site Location Map
 1701 Park Street
 Alameda, CA



Base Map From:
 USGS Topographic Map, 7.5 minute series,
 Oakland East, Calif. quadrangle, 1980

P&D Environmental, Inc.
 55 Santa Clara Ave, Ste. 240
 Oakland, CA 94610



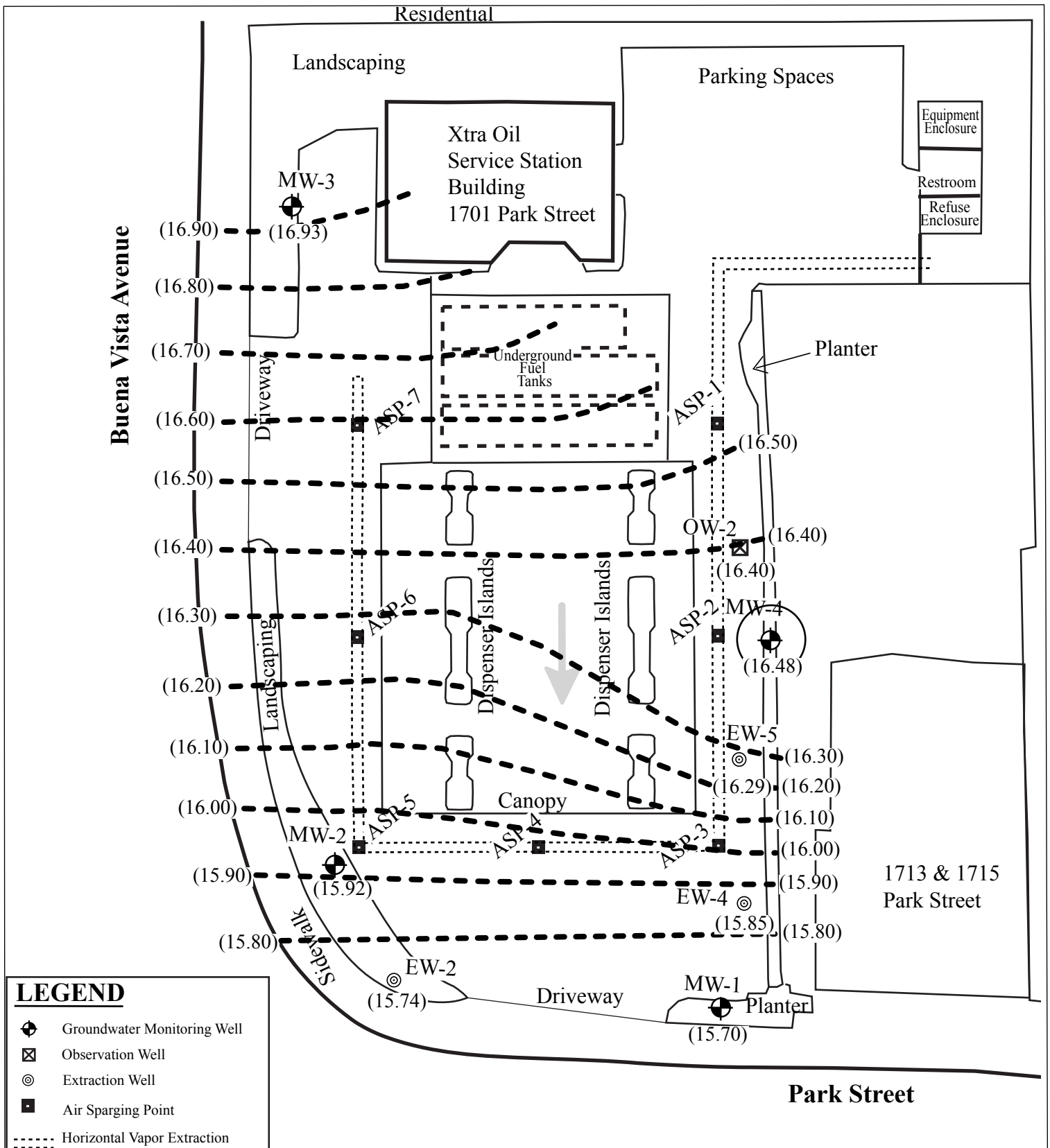
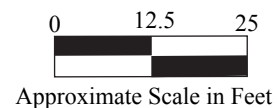
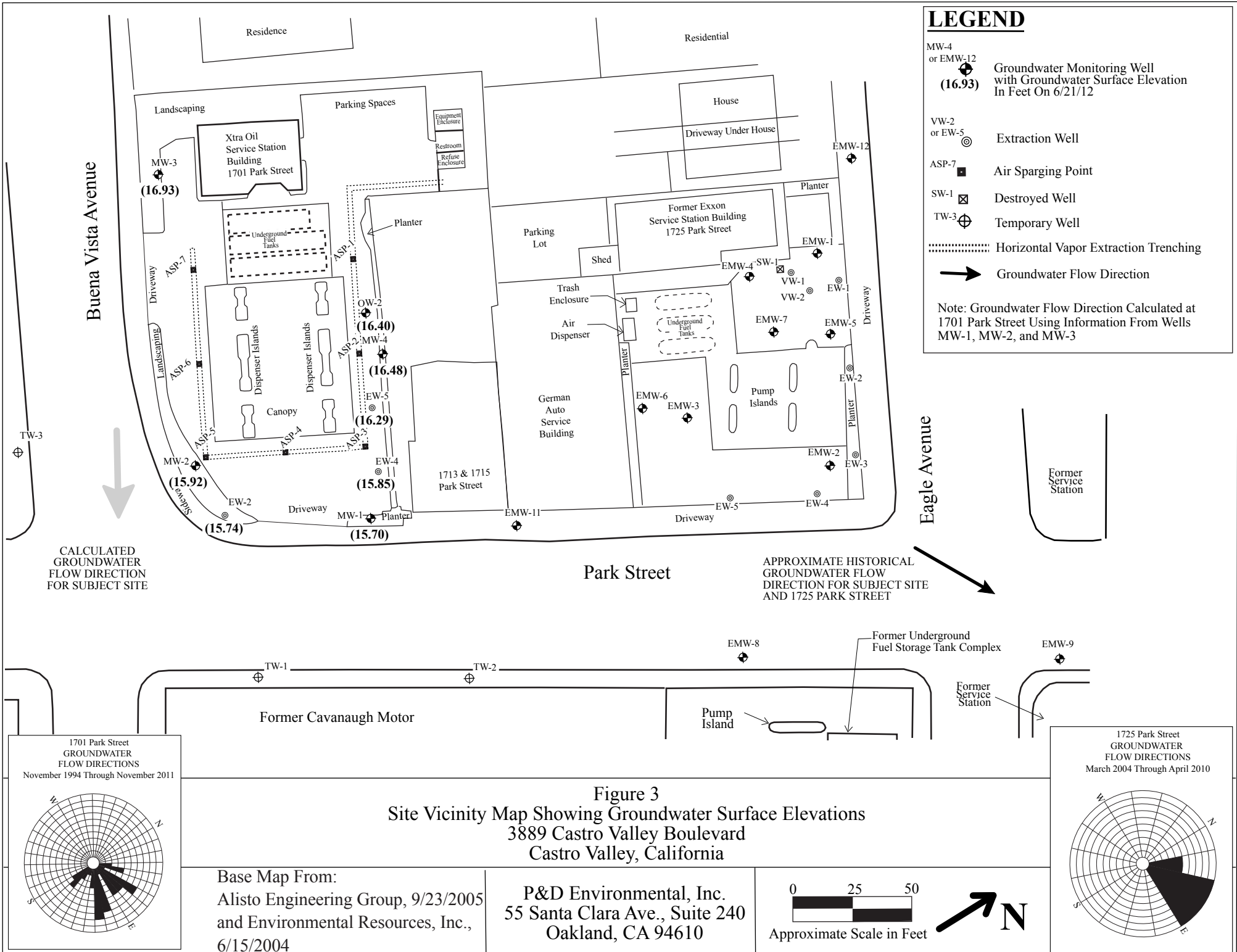


Figure 2
 Site Plan Showing Well Locations and Groundwater Surface Elevations
 Xtra Oil Company
 1701 Park Street
 Alameda, California

Basemap from: Alisto Engineering Group September 2005, and Google Earth October 2009

P&D Environmental, Inc.
 55 Santa Clara Ave., Suite 240
 Oakland, CA 94610





LEGEND

- MW-4 or EMW-12 (16.93) Groundwater Monitoring Well with Groundwater Surface Elevation In Feet On 6/21/12
- VW-2 or EW-5 Extraction Well
- ASP-7 Air Sparging Point
- SW-1 Destroyed Well
- TW-3 Temporary Well
- Horizontal Vapor Extraction Trenching
- Groundwater Flow Direction

Note: Groundwater Flow Direction Calculated at 1701 Park Street Using Information From Wells MW-1, MW-2, and MW-3

CALCULATED GROUNDWATER FLOW DIRECTION FOR SUBJECT SITE

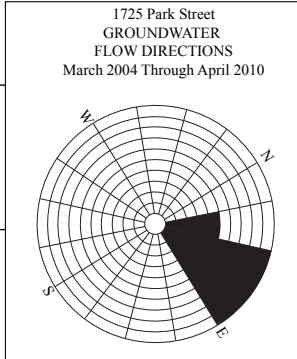
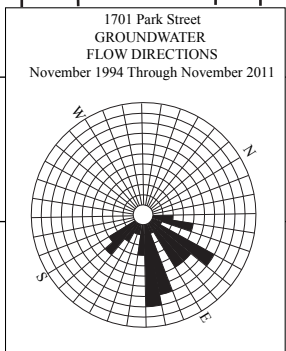
APPROXIMATE HISTORICAL GROUNDWATER FLOW DIRECTION FOR SUBJECT SITE AND 1725 PARK STREET

Figure 3
 Site Vicinity Map Showing Groundwater Surface Elevations
 3889 Castro Valley Boulevard
 Castro Valley, California

Base Map From:
 Alisto Engineering Group, 9/23/2005
 and Environmental Resources, Inc.,
 6/15/2004

P&D Environmental, Inc.
 55 Santa Clara Ave., Suite 240
 Oakland, CA 94610

0 25 50
 Approximate Scale in Feet



**WELL MONITORING AND
PURGE DATA SHEETS**

P&D Environmental, Inc.
Groundwater Monitoring/Well Purging Data Sheet

7

Site Name Xtra Oil - Park St., Alameda

Well No. MW-1

Job Number 0058

Date 6/21/12

TOC to Water (ft.) 6.66

Sheen yes

Well Depth (ft.) 19.2

Free Product Thickness 0

Well Diameter 2"

Sample Collection Method Peristaltic PE

Flow Rate (mL/minute) 200mL/min

pump + new unused tubing

Start Purge Time 1514

Time	Vol. Purged (mL)	Depth to Water (ft.)	pH	Electrical Conductivity (uS/cm)	Temperature (C°)	Dissolved Oxygen (mg/L)	Oxidation/Reduction Potential (mV)	Turbidity (NTU)
1515	200	6.85	6.77	716	20.5	0.33	-97.3	2.72
1518	800	6.93	6.76	720	20.7	0.22	-104.7	0.48
1521	1,400	6.99	6.77	720	20.7	0.24	-107.8	0.00
1524	2,000	7.00	6.77	716	20.8	0.33	-109.5	0.00
1527	2,600	7.04	6.78	675	21.0	0.20	-109.4	0.00
1530	3,200	7.05	6.78	664	21.0	0.18	-110.6	0.00

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp Conductivity = +/- 3%
Turbidity = +/- 10%
D.O. = +/- 10%

Strong odor, w/ sheen
Inlet to tubing set @ w/ 7.0 below top of casing,
MW-1 collected @ 1535

P&D Environmental, Inc.
Groundwater Monitoring/Well Purging Data Sheet

3

Site Name Xtra Oil - Park St., Alameda
Job Number 0058
TOC to Water (ft.) 7.18
Well Depth (ft.) 13.4
Well Diameter 2"
Flow Rate (mL/minute) 200
Start Purge Time 1243

Well No. MW-2
Date 6/21/12
Sheen yes
Free Product Thickness 0
Sample Collection Method Peristaltic pump + new unused PE tubing

Time	Vol. Purged (mL)	Depth to Water (ft.)	pH	Electrical Conductivity (µS/cm)	Temperature (C°)	Dissolved Oxygen (mg/L)	Oxidation/Reduction Potential (mV)	Turbidity (NTU)
1244	200	7.33	6.37	385.0	20.9	0.77	-24.1	54
1247	600	7.41	6.39	397.0	21.3	0.43	-29.1	30.45
1250	1,400	7.45	6.43	464.6	21.3	0.35	-53.1	27.18
1253	2,000	7.47	6.48	541	21.3	0.31	-72.8	14.05
1256	2,600	7.50	6.51	592	21.3	0.27	-79.5	9.36
1259	3,200	7.51	6.58	644	21.3	0.23	-89.2	14.05

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/- 3%
Turbidity = +/- 10%
D.O. = +/- 10%

Inlet to tubing set at approx. 10 ft. below top of casing
Sheen + mod-strong phc odor.
MW-2 collected @ 1305

P&D Environmental, Inc.
Groundwater Monitoring/Well Purging Data Sheet

⑥

Site Name Xtra Oil - Park St., Alameda

Well No. EW-4

Job Number 0058

Date 6/21/12

TOC to Water (ft.) 5.10

Sheen none

Well Depth (ft.) 21.8

Free Product Thickness 0

Well Diameter 4"

Sample Collection Method Peristaltic PE

Flow Rate (mL/minute) 200mL/min

pump + new un-used tubing

Start Purge Time 14:22

Time	Vol. Purged (mL)	Depth to Water (ft.)	pH	Electrical Conductivity (uS/cm)	Temperature (C°)	Dissolved Oxygen (mg/L)	Oxidation/Reduction Potential (mV)	Turbidity (NTU)
<u>14:23</u>	<u>200</u>	<u>5.07</u>	<u>6.80</u>	<u>312.4</u>	<u>21.0</u>	<u>2.45</u>	<u>-77.2</u>	<u>0.00</u>
<u>14:46</u>	<u>800</u>	<u>5.18</u>	<u>6.83</u>	<u>309.9</u>	<u>20.1</u>	<u>0.29</u>	<u>-103.1</u>	<u>0.00</u>
<u>14:49</u>	<u>1400</u>	<u>5.24</u>	<u>6.82</u>	<u>315.4</u>	<u>20.2</u>	<u>0.33</u>	<u>-108.5</u>	<u>0.00</u>
<u>14:52</u>	<u>2000</u>	<u>5.27</u>	<u>6.82</u>	<u>315.2</u>	<u>20.3</u>	<u>0.26</u>	<u>-109.5</u>	<u>0.00</u>
<u>14:55</u>	<u>2600</u>	<u>5.30</u>	<u>6.82</u>	<u>314.7</u>	<u>20.3</u>	<u>0.19</u>	<u>-110.6</u>	<u>0.00</u>
<u>14:58</u>	<u>3200</u>	<u>5.31</u>	<u>6.82</u>	<u>318.8</u>	<u>20.2</u>	<u>0.17</u>	<u>-111.2</u>	<u>0.00</u>

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/- 3%
Turbidity = +/- 10%
D.O. = +/- 10%

Strong odor, no sheen.
Inlet tubing set @ ~16' below top of casing.
EW-4 collected @ 1500.

P&D Environmental, Inc.
Groundwater Monitoring/Well Purging Data Sheet

⑧

Site Name Xtra Oil - Park St., Alameda

Well No. EW-5

Job Number 0058

Date 6/21/12

TOC to Water (ft.) 4.91

Sheen none

Well Depth (ft.) 23.7

Free Product Thickness 0

Well Diameter 4"

Sample Collection Method Peristaltic

Flow Rate (mL/minute) 200mL/min

pump + new unused PE tubing

Start Purge Time 1548

Time	Vol. Purged (mL)	Depth to Water (ft.)	pH	Electrical Conductivity (µS/cm)	Temperature (C°)	Dissolved Oxygen (mg/L)	Oxidation/Reduction Potential (mV)	Turbidity (NTU)
1545	200	5.00	6.92	240.3	18.7	0.44	-99.7	0.00
1548	800	5.10	6.89	237.5	18.4	0.23	-105.1	0.00
1551	1,400	5.15	6.88	237.4	18.4	0.20	-106.0	0.00
1554	2,000	5.17	6.87	236.8	18.4	0.18	-108.5	0.00
1557	2,600	5.20	6.87	236.6	18.3	0.21	-111.8	0.00
1600	3,200	5.22	6.87	236.5	18.4	0.26	-113.0	0.00

NOTES
Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/- 3%
Turbidity = +/- 10%
D.O. = +/- 10%

Inlet to tubing set @ ~18' below top of casing,
~~no~~ moderate to strong odor, no sheen
EW-5 collected @ 1600

**LABORATORY REPORTS
AND CHAIN OF CUSTODY
DOCUMENTATION**



Analytical Report

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0058; Xtra Oil 1701 Park St. Alameda	Date Sampled: 06/21/12
		Date Received: 06/22/12
	Client Contact: Steve Carmack	Date Reported: 06/28/12
	Client P.O.:	Date Completed: 06/27/12

WorkOrder: 1206688

June 28, 2012

Dear Steve:

Enclosed within are:

- 1) The results of the **8** analyzed samples from your project: **#0058; Xtra Oil 1701 Park St. Alameda,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.

CHAIN OF CUSTODY RECORD

1206688

PAGE 1 OF 1

P&D ENVIRONMENTAL, INC.
55 Santa Clara Ave., Suite 240
Oakland, CA 94610
(510) 658-6916

PROJECT NUMBER:

0058

PROJECT NAME:

Xtra Oil
1701 Park St.
Alameda

SAMPLED BY: (PRINTED & SIGNATURE)

Steve Carmack

[Signature]

NUMBER OF CONTAINERS

ANALYSIS(ES):

TPH-Multitrace (6 P.Mo) w/ silica gel cleanup
MBTEX by 8021B
Fuel Oils + Pl. Scavengers by 8260B

PRESERVATIVE

REMARKS

SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION
MW-1	6/21/12	1535	H ₂ O	
MW-2	6/21/12	1305	H ₂ O	
MW-3	6/21/12	1130	H ₂ O	
MW-4	6/21/12	1420	H ₂ O	
EW-2	6/21/12	1225	H ₂ O	
EW-4	6/21/12	1500	H ₂ O	
EW-5	6/21/12	1600	H ₂ O	
OW-2	6/21/12	1345	H ₂ O	

7	X	X	X
7	X	X	X
7	X	X	X
7	X	X	X
7	X	X	X
7	X	X	X
7	X	X	X
7	X	X	X
7	X	X	X

ICE Normal Turnaround
" "
" "
" "
" "
" "
" "

+
+
(+)
(+)
(+)
+
+
+

ICE/4 3.10C
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 PRESERVATION VOAS O&G METALS OTHER

RELINQUISHED BY: (SIGNATURE)

[Signature]

DATE TIME

6/22/12 1553

RECEIVED BY: (SIGNATURE)

[Signature]

Total No. of Samples (This Shipment) 8
Total No. of Containers (This Shipment) 50

LABORATORY: McCampbell Analytical

RELINQUISHED BY: (SIGNATURE)

[Signature]

DATE TIME

6/22/12 1645

RECEIVED BY: (SIGNATURE)

[Signature]

LABORATORY CONTACT: Angela Rydelius

LABORATORY PHONE NUMBER: (877) 252-9262

RELINQUISHED BY: (SIGNATURE)

DATE TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)

SAMPLE ANALYSIS REQUEST SHEET ATTACHED: () YES (X) NO

Results and billing to:
P&D Environmental, Inc.
lab@pdenviro.com

REMARKS:

All bottles preserved w/ HCL



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

WorkOrder: 1206688

ClientCode: PDEO

WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Steve Carmack
P & D Environmental
55 Santa Clara, Ste.240
Oakland, CA 94610
(510) 658-6916 FAX: 510-834-0152

Email: lab@pdenviro.com
cc:
PO:
ProjectNo: #0058; Xtra Oil 1701 Park St. Alameda

Bill to:

Accounts Payable
Xtra Oil Company
2307 Pacific Avenue
Alameda, CA 94507
xtraoil@sbcglobal.net

Requested TAT: 5 days

Date Received: 06/22/2012

Date Printed: 06/22/2012

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1206688-001	MW-1	Water	6/21/2012 15:35	<input type="checkbox"/>	B	A	C									
1206688-002	MW-2	Water	6/21/2012 13:05	<input type="checkbox"/>	B	A	C									
1206688-003	MW-3	Water	6/21/2012 11:30	<input type="checkbox"/>	B	A	C									
1206688-004	MW-4	Water	6/21/2012 14:20	<input type="checkbox"/>	B	A	C									
1206688-005	EW-2	Water	6/21/2012 12:25	<input type="checkbox"/>	B	A	C									
1206688-006	EW-4	Water	6/21/2012 15:00	<input type="checkbox"/>	B	A	C									
1206688-007	EW-5	Water	6/21/2012 16:00	<input type="checkbox"/>	B	A	C									
1206688-008	OW-2	Water	6/21/2012 13:45	<input type="checkbox"/>	B	A	C									

Test Legend:

1	5-OXYS+PBSCV_W	2	G-MBTEX_W	3	TPH(DMO)WSG_W	4		5	
6		7		8		9		10	
11		12							

Prepared by: Gabrielle Walker

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **P & D Environmental** Date and Time Received: **6/22/2012 7:28:56 PM**
 Project Name: **#0058; Xtra Oil 1701 Park St. Alameda** LogIn Reviewed by: **Gabrielle Walker**
 WorkOrder N°: **1206688** Matrix: Water Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 3.1°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0058; Xtra Oil 1701 Park St. Alameda	Date Sampled: 06/21/12
	Client Contact: Steve Carmack	Date Received: 06/22/12
	Client P.O.:	Date Extracted: 06/25/12
		Date Analyzed: 06/25/12

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1206688

Lab ID	1206688-001B	1206688-002B	1206688-003B	1206688-004B	Reporting Limit for DF = 1	
Client ID	MW-1	MW-2	MW-3	MW-4		
Matrix	W	W	W	W		
DF	10	5	1	10		

Compound	Concentration				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<5.0	ND<2.5	ND	ND<5.0	NA	0.5
t-Butyl alcohol (TBA)	110	340	ND	ND<20	NA	2.0
1,2-Dibromoethane (EDB)	ND<5.0	ND<2.5	ND	ND<5.0	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	ND<2.5	ND	ND<5.0	NA	0.5
Diisopropyl ether (DIPE)	ND<5.0	ND<2.5	ND	ND<5.0	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND<5.0	ND<2.5	ND	ND<5.0	NA	0.5
Methyl-t-butyl ether (MTBE)	49	160	ND	ND<5.0	NA	0.5

Surrogate Recoveries (%)

%SS1:	114	102	110	95	
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Comments

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



McC Campbell Analytical, Inc.

"When Quality Counts"

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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0058; Xtra Oil 1701 Park St. Alameda	Date Sampled: 06/21/12
	Client Contact: Steve Carmack	Date Received: 06/22/12
	Client P.O.:	Date Extracted: 06/25/12
		Date Analyzed: 06/25/12

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1206688

Lab ID	1206688-005B	1206688-006B	1206688-007B	1206688-008B	Reporting Limit for DF = 1	
Client ID	EW-2	EW-4	EW-5	OW-2		
Matrix	W	W	W	W		
DF	5	1	10	1		

Compound	Concentration				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<2.5	ND	ND<5.0	ND	NA	0.5
t-Butyl alcohol (TBA)	140	18	57	60	NA	2.0
1,2-Dibromoethane (EDB)	ND<2.5	ND	ND<5.0	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<2.5	ND	ND<5.0	ND	NA	0.5
Diisopropyl ether (DIPE)	ND<2.5	ND	ND<5.0	ND	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND<2.5	ND	ND<5.0	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	120	6.7	6.5	5.4	NA	0.5

Surrogate Recoveries (%)

%SS1:	100	77	97	96
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Comments

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0058; Xtra Oil 1701 Park St. Alameda	Date Sampled: 06/21/12
	Client Contact: Steve Carmack	Date Received: 06/22/12
	Client P.O.:	Date Extracted: 06/25/12-06/27/12
		Date Analyzed: 06/25/12-06/27/12

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1206688

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-1	W	17,000	ND<500	1800	420	500	1500	50	108	d1
002A	MW-2	W	4900	180	560	14	36	12	5	126	d1
003A	MW-3	W	ND	ND	ND	ND	ND	ND	1	100	
004A	MW-4	W	12,000	ND<90	49	83	540	1700	10	108	d1
005A	EW-2	W	3700	180	960	9.5	20	16	2	---#	d1
006A	EW-4	W	9600	ND<75	270	22	340	290	3.3	---#	d1
007A	EW-5	W	44,000	ND<1000	710	2400	2300	8800	200	96	d1
008A	OW-2	W	4600	ND<45	110	46	160	590	2	---#	d1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	μg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:
 d1) weakly modified or unmodified gasoline is significant



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P & D Environmental 55 Santa Clara, Ste.240 Oakland, CA 94610	Client Project ID: #0058; Xtra Oil 1701	Date Sampled: 06/21/12
	Park St. Alameda	Date Received: 06/22/12
	Client Contact: Steve Carmack	Date Extracted: 06/22/12
	Client P.O.:	Date Analyzed: 06/26/12-06/27/12

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C/3630C

Analytical methods: SW8015B

Work Order: 1206688

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1206688-001C	MW-1	W	2100	ND	1	86	e4
1206688-002C	MW-2	W	1600	ND	1	88	e4,e2
1206688-003C	MW-3	W	ND	ND	1	87	
1206688-004C	MW-4	W	2700	ND	1	91	e4
1206688-005C	EW-2	W	280	ND	1	87	e4
1206688-006C	EW-4	W	2200	ND	1	88	e4
1206688-007C	EW-5	W	4900	ND	1	87	e4
1206688-008C	OW-2	W	840	ND	1	89	e4

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

#) cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; &) low or no surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

- e2) diesel range compounds are significant; no recognizable pattern
- e4) gasoline range compounds are significant.

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 68568

WorkOrder: 1206688

EPA Method: SW8015B		Extraction: SW3510C/3630C					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	105	N/A	N/A	70 - 130	
%SS:	N/A	625	N/A	N/A	N/A	95	N/A	N/A	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

BATCH 68568 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1206688-001C	06/21/12 3:35 PM	06/22/12	06/27/12 1:19 AM	1206688-002C	06/21/12 1:05 PM	06/22/12	06/27/12 2:26 AM
1206688-003C	06/21/12 11:30 AM	06/22/12	06/26/12 11:06 PM	1206688-004C	06/21/12 2:20 PM	06/22/12	06/26/12 3:41 AM
1206688-005C	06/21/12 12:25 PM	06/22/12	06/26/12 4:49 AM	1206688-006C	06/21/12 3:00 PM	06/22/12	06/26/12 5:57 AM
1206688-007C	06/21/12 4:00 PM	06/22/12	06/26/12 7:06 AM	1206688-008C	06/21/12 1:45 PM	06/22/12	06/26/12 8:14 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

 QA/QC Officer



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 68610

WorkOrder: 1206688

EPA Method: SW8260B		Extraction: SW5030B					Spiked Sample ID: 1206688-003B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND	10	95.1	92	3.33	85.2	70 - 130	20	70 - 130	
t-Butyl alcohol (TBA)	ND	40	104	100	3.99	103	70 - 130	20	70 - 130	
1,2-Dibromoethane (EDB)	ND	10	99.1	96.3	2.80	93.2	70 - 130	20	70 - 130	
1,2-Dichloroethane (1,2-DCA)	ND	10	108	104	4.12	99.9	70 - 130	20	70 - 130	
Diisopropyl ether (DIPE)	ND	10	98.3	94.7	3.69	91.3	70 - 130	20	70 - 130	
Ethyl tert-butyl ether (ETBE)	ND	10	99.7	95.3	4.43	90.6	70 - 130	20	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	98.6	95.2	3.50	89.7	70 - 130	20	70 - 130	
%SS1:	110	25	110	109	1.13	111	70 - 130	20	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

BATCH 68610 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1206688-001B	06/21/12 3:35 PM	06/25/12	06/25/12 2:08 PM	1206688-002B	06/21/12 1:05 PM	06/25/12	06/25/12 8:09 PM
1206688-003B	06/21/12 11:30 AM	06/25/12	06/25/12 2:48 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 68613

WorkOrder: 1206688

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	10	94.1	93.8	0.291	90	70 - 130	20	70 - 130
t-Butyl alcohol (TBA)	ND	40	98.8	106	7.07	104	70 - 130	20	70 - 130
1,2-Dibromoethane (EDB)	ND	10	116	116	0	106	70 - 130	20	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	97.6	99.8	2.26	94.9	70 - 130	20	70 - 130
Diisopropyl ether (DIPE)	ND	10	98.1	98.6	0.453	93.6	70 - 130	20	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	105	106	0.243	103	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	99.7	102	1.82	96.8	70 - 130	20	70 - 130
%SS1:	96	25	97	98	1.29	96	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

BATCH 68613 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1206688-004B	06/21/12 2:20 PM	06/25/12	06/25/12 3:00 PM	1206688-005B	06/21/12 12:25 PM	06/25/12	06/25/12 8:33 PM
1206688-006B	06/21/12 3:00 PM	06/25/12	06/25/12 4:20 PM	1206688-007B	06/21/12 4:00 PM	06/25/12	06/25/12 5:00 PM
1206688-008B	06/21/12 1:45 PM	06/25/12	06/25/12 5:41 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 68632

WorkOrder: 1206688

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1206703-003A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) £	ND	60	85.3	84.7	0.666	98.2	70 - 130	20	70 - 130	
MTBE	ND	10	85.3	90.8	5.90	94.8	70 - 130	20	70 - 130	
Benzene	ND	10	84.1	91.9	8.78	93.4	70 - 130	20	70 - 130	
Toluene	ND	10	83.9	91.2	8.38	95.9	70 - 130	20	70 - 130	
Ethylbenzene	ND	10	84.4	91.7	8.21	93.8	70 - 130	20	70 - 130	
Xylenes	ND	30	87.1	92.7	6.14	94.1	70 - 130	20	70 - 130	
%SS:	97	10	94	99	4.84	100	70 - 130	20	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

BATCH 68632 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1206688-001A	06/21/12 3:35 PM	06/25/12	06/25/12 6:21 PM	1206688-002A	06/21/12 1:05 PM	06/26/12	06/26/12 11:13 PM
1206688-003A	06/21/12 11:30 AM	06/26/12	06/26/12 7:29 AM	1206688-004A	06/21/12 2:20 PM	06/25/12	06/25/12 9:48 PM
1206688-005A	06/21/12 12:25 PM	06/25/12	06/25/12 10:17 PM	1206688-005A	06/21/12 12:25 PM	06/27/12	06/27/12 12:41 AM
1206688-006A	06/21/12 3:00 PM	06/25/12	06/25/12 10:46 PM	1206688-007A	06/21/12 4:00 PM	06/27/12	06/27/12 2:09 AM
1206688-008A	06/21/12 1:45 PM	06/26/12	06/26/12 5:04 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.
 % Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.
 £ TPH(btex) = sum of BTEX areas from the FID.
 # cluttered chromatogram; sample peak coelutes with surrogate peak.
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.
 NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

APPENDIX A

TABLE 1 - SUMMARY OF GROUNDWATER SAMPLING
 XTRA OIL COMPANY SERVICE STATION
 1701 PARK STREET, ALAMEDA, CALIFORNIA

ALISTO PROJECT NO. 10-210

WELL ID	DATE OF MONITORING/ SAMPLING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	OTHER SVOCs (ug/l)	NAPHTHALENE (ug/l)	BENZO-PYRENE (ug/l)	DO (ppm)	LAB	
MW-1	11/04/94	19.60	8.6	--	10.96	60000	6400	13000	4900	1300	5500	--	--	--	--	--	MCC	
QC-1 (c)	11/04/94	--	--	--	--	54000	--	12000	4500	1200	5200	--	--	--	--	--	MCC	
MW-1	01/11/95	19.60	6.10	--	13.50	--	--	--	--	--	--	--	--	--	--	--	--	
MW-1	02/24/95	19.60	6.57	--	13.03	56000	4400	13000	7000	1400	5100	--	--	--	--	--	MCC	
QC-1 (c)	02/24/95	--	--	--	--	43000	--	8900	4600	970	3300	--	--	--	--	--	MCC	
MW-1	05/25/95	19.60	6.54	--	13.06	53000	4700	11000	5700	1200	4000	--	--	--	--	--	MCC	
QC-1 (c)	05/25/95	--	--	--	--	48000	--	11000	5300	1200	3800	--	--	--	--	4.3	MCC	
MW-1	08/30/95	19.60	8.15	--	11.45	14000	3700	5000	1100	3900	103	--	--	--	--	--	MCC	
QC-1 (c)	08/30/95	--	--	--	--	57000	--	17000	7000	1500	5200	--	--	--	--	2.8	MCC	
MW-1	11/18/95	19.60	8.79	--	10.81	100000	5900	22000	17000	2100	8500	--	--	--	--	--	MCC	
QC-1 (c)	11/18/95	--	--	--	--	95000	--	20000	15000	1800	7800	--	--	--	--	--	MCC	
MW-1	03/20/96	19.60	6.45	--	13.15	46000	3300	10000	6200	1100	3200	--	--	--	--	--	MCC	
QC-1 (c)	03/20/96	--	--	--	--	42000	--	9800	5800	970	3000	--	--	--	--	--	MCC	
MW-1	06/13/96	19.60	7.14	--	12.46	44000	5400	9500	5500	1100	4000	19000	--	--	--	--	MCC	
QC-1 (c)	06/13/96	--	--	--	--	45000	--	9300	5300	1000	3800	17000	--	--	--	--	MCC	
MW-1	09/23/96	19.60	7.56	--	12.04	76000	14000	14000	11000	1600	7100	17000	--	--	--	--	6.1	MCC
MW-1	12/19/96	19.60	7.08	--	12.52	46000	--	12000	5500	1200	4100	--	--	--	--	--	MCC	
MW-1	05/09/97	19.60	7.39	--	12.21	80000	7500	14000	12000	1700	7600	14000	ND	280	ND<2	2.7	MCC/CHR	
MW-1	09/11/97	19.60	7.50	--	12.10	100000	7700	19000	19000	2400	11000	ND<2100	--	--	--	7.2	MCC	
MW-1	12/15/97	19.60	7.61	--	11.99	45000	3500	11000	5300	1500	5200	13000	--	--	--	--	6.8	MCC
QC-1 (c)	12/15/97	--	--	--	--	45000	--	11000	5400	1400	5100	14000	--	--	--	--	MCC	
MW-1	03/11/98	19.60	6.35	--	14.25	40000	3800	5900	3500	1300	4900	8700	--	--	--	--	6	MCC
QC-1 (c)	03/11/98	--	--	--	--	43000	--	7200	5000	1400	5300	14000	--	--	--	--	MCC	
MW-1	06/23/98	19.60	5.63	--	12.97	44000	3700	5900	6200	1800	6200	870	--	--	--	--	6.2	MCC
QC-1 (c)	06/23/98	--	--	--	--	47000	--	6000	6400	1800	6300	1000	--	--	--	--	MCC	
MW-1	12/01/98	19.60	6.48	--	13.12	57000	--	7400	12000	2100	8200	7200	--	--	--	--	2.4	MCC
QC-1 (c)	12/01/98	--	--	--	--	57000	--	6800	11000	1900	7500	8300	--	--	--	--	MCC	
MW-1	03/30/99	19.60	5.74	--	13.86	67000	6500	5700	9400	2500	9400	3200	--	--	--	--	2.1	MCC
QC-1 (c)	03/30/99	--	--	--	--	64000	6400	5500	9000	2400	9100	3100	--	--	--	--	MCC	
MW-1	08/16/99	19.60	7.02	--	12.58	63000	--	3800	9100	2800	11000	ND<1700	--	--	--	--	1.3	MCC
QC-1 (c)	08/16/99	--	--	--	--	64000	--	3700	8800	2800	11000	ND<1400	--	--	--	--	MCC	
MW-1	12/31/99	19.60	7.45	--	12.15	62000	5100	2900	9400	2700	11000	ND<100	--	--	--	--	8.3	MCC
QC-1 (c)	12/31/99	--	--	--	--	67000	4900	2900	9700	2800	12000	ND<100	--	--	--	--	MCC	
MW-1	03/31/00	19.60	5.85	--	13.75	48000	490	3200	5500	2000	6700	520	--	--	--	--	7.9	MCC
QC-1 (c)	03/31/00	--	--	--	--	54000	3300	3500	6000	2300	7300	730	--	--	--	--	MCC	
MW-1	07/14/00	19.60	7.00	--	12.60	79000	5700	5600	4900	2300	9500	ND<200	--	--	--	--	3.2	MCC
QC-1 (c)	07/14/00	--	--	--	--	72000	--	4900	14000	2100	9200	ND<200	--	--	--	--	MCC	
MW-1	10/04/00	19.60	7.60	--	12.00	65000	2900	3800	11000	2400	8200	ND<100	--	--	--	--	1.4	MCC
QC-1 (c)	10/04/00	--	--	--	--	68000	--	3900	13000	2400	9300	ND<100	--	--	--	--	MCC	
MW-1	12/21/00	19.60	6.91	--	12.99	74000	2500	3800	17000	3400	15000	ND<200	--	--	--	--	1.3	MCC
QC-1 (c)	12/21/00	--	--	--	--	69000	--	2700	12000	2400	11000	ND<550	--	--	--	--	MCC	
MW-1	04/13/01	19.60	6.06	--	13.54	55000	2400	2900	7800	2400	9400	ND<900	--	--	--	--	0.8	MCC
QC-1 (c)	04/13/01	--	--	--	--	51000	--	2300	8000	2900	7900	ND<350	--	--	--	--	MCC	
MW-1	06/27/01	19.60	6.54	--	13.06	80000	3600	2800	13000	2300	10000	ND<250	--	--	--	--	1.1	MCC
QC-1 (c)	06/27/01	--	--	--	--	76000	--	3100	13000	2300	10000	ND<250	--	--	--	--	MCC	
MW-1	09/20/01	19.60	7.06	--	12.52	74000	6600	1600	7700	2500	10000	ND<200	--	--	--	--	0.8	MCC
QC-1 (c)	09/20/01	--	--	--	--	67000	--	1600	7800	2600	10000	ND<200	--	--	--	--	MCC	
MW-1	12/21/01	19.60	5.71	--	13.89	58000	5500	2100	11000	2400	10000	ND<720	--	--	--	--	1.4	MCC
QC-1 (c)	12/21/01	--	--	--	--	56000	--	2100	11000	2300	10000	ND<620	--	--	--	--	MCC	
MW-1	02/04/02	19.60	5.01	--	14.59	6500	1800	74	100	230	1500	140	--	--	--	--	4.1	MCC
QC-1 (c)	02/04/02	--	--	--	--	8000	--	90	130	270	1800	ND<500	--	--	--	--	MCC	
MW-1	05/07/02	19.60	6.10	--	13.50	41000	7900	1300	5200	1700	6300	ND<1000	--	--	--	--	4.3	MCC
QC-1 (c)	05/07/02	--	--	--	--	40000	--	1300	5200	1700	6400	ND<500	--	--	--	--	MCC	
MW-1	09/22/02	19.60	6.91	--	12.89	42000	4800	1100	6300	1900	7900	ND<500	--	--	--	--	4.9	MCC
QC-1 (c)	09/22/02	--	--	--	--	40000	--	1000	6100	1800	7500	ND<500	--	--	--	--	MCC	
MW-1	11/08/02	19.60	6.46	--	13.14	39000	6800	770	4600	1600	6600	ND<1000	--	--	--	--	MCC	
QC-1 (c)	11/08/02	--	--	--	--	49000	--	880	4800	1800	6700	ND<1700	--	--	--	--	MCC	
MW-1	02/07/03	19.60	5.80	--	13.80	43000	3700	1600	5100	2100	9700	ND<500	--	--	--	--	1.1	MCC
MW-1	05/02/03	19.60	5.60	--	14.00	48000	4600	1100	5900	1800	7300	ND<1000	--	--	--	--	MCC	
QC-1 (c)	05/02/03	--	--	--	--	--	--	1200	5800	1800	7100	ND<500	--	--	--	--	MCC	
MW-1	08/14/03	19.60	6.81	--	12.79	42000	3800	1000	4700	2000	8100	ND<500	--	--	--	--	1.3	MCC
QC-1 (c)	08/14/03	--	--	--	--	43000	--	1000	4600	2000	7900	ND<500	--	--	--	--	MCC	
MW-1	11/14/03	19.60	6.71	--	12.89	40000	3000	610	4900	1900	7600	ND<500	--	--	--	--	MCC	
MW-1	03/01/04	19.60	5.22	--	14.38	20000	3000	540	2500	720	2900	ND<50	--	--	--	--	0.01	MCC
MW-1	06/30/04	19.60	6.38	--	13.22	38000	3000	570	2900	2100	8200	ND<500	--	--	--	--	MCC	
QC-1 (c)	06/30/04	--	--	--	--	--	6800	550	3200	2100	9100	ND<500	--	--	--	--	MCC	
MW-1	10/26/04	19.60	6.00	--	13.60	35000	4400	510	2900	1900	5700	ND<150	--	--	--	--	2.7	MCC
QC-1 (c)	10/26/04	--	--	--	--	--	--	450	2700	1600	5500	ND<150	--	--	--	--	MCC	
MW-1	03/24/05	19.60	5.04	--	14.56	29000	3300	1300	5500	1200	4900	ND<500	--	--	--	--	2.7	MCC
QC-1 (c)	03/24/05	--	--	--	--	31000	--	830	3800	1900	4500	ND<210	--	--	--	--	MCC	
MW-1	06/14/05	19.60	5.45	--	14.15	23000	4300	1300	2700	810	2700	ND<500	--	--	--	--	2.9	MCC
QC-1 (c)	06/14/05	--	--	--	--	--	--	1400	3100	810	2900	ND<250	--	--	--	--	MCC	
MW-1	09/12/05	19.60	7.89	--	11.71	60000	4600	4900	8200	1900	7300	2300	--	--	--	--	2.6	MCC
QC-1 (c)	09/12/05	--	--	--	--	58000	--	5000	8500	1900	7300	2200	--	--	--	--	MCC	
MW-1	01/04/06	19.60	6.09	--	13.51	54000	2900	8800	3500	970	3700	5400	--	--	--	--	MCC	
QC-1 (c)	01/04/06	--	--	--	--	46000	--	8500	3500	970	3700	5200	--	--	--	--	MCC	
MW-1	04/04/06	19.60	5.71	<0.01	13.89	31000	2500	6700	2800	1600	6600	5400	--	--	--	--	MCC	
QC-1 (c)	04/04/06	--	--	--	--	31000	--	6900	2900	1000	2800	5800	--	--	--	--	MCC	
MW-1	06/12/06	19.60	6.66	sheen	12.94	31000	3100	4800	2200	910	2600	3900	--	--	--	--	MCC	
QC-1 (c)	06/12/06	--	--	--	--	31000	--	5700	2300	850	2400	4900	--	--	--	--	MCC	
MW-1	09/08/06	19.60	7.78	sheen	11.82	34000	3000	7900	1800	780	2300	6200	--	--	--	--	MCC	
QC-1 (c)	09/08/06	--	--	--	--	39000	--	6300	1600	680	2000	5200	--	--	--	--	MCC	

TABLE 1 - SUMMARY OF GROUNDWATER SAMPLING
 XTRA OIL COMPANY SERVICE STATION
 1701 PARK STREET, ALAMEDA, CALIFORNIA

ALISTO PROJECT NO. 10-210

WELL ID	DATE OF MONITORING/ SAMPLING	CASING ELEVATION (Feet)	DEPTH TO WATER (a) (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	OTHER SVOCs (ug/l)	NAPHTHALENE (ug/l)	BENZO-PYRENE (ug/l)	DO (ppm)	LAB		
MW-2	11/04/84	20.31	9.12	0.16	11.31	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2	01/11/95	20.31	6.75	—	13.56	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2	02/24/95	20.31	7.11	0.18	13.34	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2	05/25/95	20.31	7.01	0.01	13.31	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2	08/30/95	20.31	6.58	0.12	11.82	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2	11/16/95	20.31	6.07	0.01	11.26	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2	03/20/96	20.31	6.79	0.01	13.53	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2	06/13/96	20.31	7.41	0.01	12.91	—	—	—	—	—	—	—	—	—	—	—	—		
MW-2	09/23/96	20.31	7.83	0.01	12.49	30000	19000	4600	180	1500	4100	2600	—	—	—	5.5	MCC		
QC-1 (c)	09/23/96	—	—	—	—	33000	—	4700	170	1600	3900	2400	—	—	—	—	MCC		
MW-2	12/19/96	20.31	7.37	0.01	12.95	29000	—	1800	240	1400	5400	(d)	—	—	ND<10	—	MCC		
QC-1 (c)	12/19/96	—	—	—	—	29000	—	580	210	1300	5100	—	—	—	—	—	MCC		
MW-2	05/09/97	20.31	6.11	0.21	14.36	34000	6700000	4600	260	1500	4300	1600	—	—	—	—	3.7	MCC	
MW-2	09/11/97	20.31	7.70	0.03	12.63	44000	1200000	3900	250	2400	7400	ND<610	—	—	—	—	6.5	MCC	
QC-1 (c)	09/11/97	—	—	—	—	47000	1100000	4000	420	2700	8300	920	—	—	—	—	—	MCC	
MW-2	12/15/97	20.31	7.87	0.03	12.46	32000	68000	4600	130	2200	5400	ND<470	—	—	—	—	6	MCC	
MW-2	03/11/98	20.31	5.61	0.18	14.84	44000	3800	5200	220	2000	5000	1100	—	—	—	—	6.2	MCC	
MW-2	06/23/98	20.31	6.74	0.02	13.59	75000	570000	5900	390	3100	8300	8400	—	—	—	—	6.3	MCC	
MW-2	12/01/98	20.31	7.30	—	13.01	36000	—	3800	73	1500	3900	2000	—	—	—	—	1.9	MCC	
MW-2	03/30/99	20.31	6.51	0.13	13.90	23000	23000	5000	100	610	870	21000	—	—	—	—	1.7	MCC	
MW-2	08/16/99	20.31	8.04	0.21	12.43	30000	—	5200	67	1100	1800	6000	—	—	—	—	2.6	MCC	
MW-2	12/31/99	20.31	8.20	0.01	12.12	43000	340000	7600	97	1400	2500	4300	—	—	—	—	9.0	MCC	
MW-2	03/31/00	20.31	6.29	0.01	14.03	26000	200000	4000	58	1100	1500	13000	—	—	—	—	8.1	MCC	
MW-2	07/14/00	20.31	8.02	—	12.29	35000	170000	5000	76	1100	2500	4900	—	—	—	—	3.9	MCC	
MW-2	10/04/00	20.31	8.62	—	11.89	22000	67000	4700	97	1300	1000	1900	—	—	—	—	1.8	MCC	
MW-2	12/21/00	20.31	7.70	—	12.61	23000	16000	3700	85	770	490	8600	—	—	220	ND<10	0.6	MCC	
MW-2	04/13/01	20.31	7.05	—	13.26	25000	21000	6400	79	790	670	8300	—	—	—	—	1.1	MCC	
MW-2	06/27/01	20.31	7.50	—	12.81	34000	10000	5400	100	520	370	6800	—	—	—	—	0.7	MCC	
MW-2	09/20/01	20.31	8.10	—	12.21	28000	64000	4600	78	670	500	2000	—	—	—	—	0.4	MCC	
MW-2	12/21/01	20.31	6.66	—	13.65	30000	18000	3000	52	1700	970	ND<100	—	—	—	—	0.9	MCC	
MW-2	02/04/02	20.31	6.75	—	13.56	17000	35000	3600	ND<50	960	500	1200	—	—	—	—	1.3	MCC	
MW-2	05/07/02	20.31	7.20	—	13.11	16000	59000	3500	43	520	220	3100	—	—	—	—	1.0	MCC	
MW-2	08/22/02	20.31	7.98	—	12.35	15000	60000	2700	30	460	220	700	—	—	—	—	4.2	MCC	
MW-2	11/08/02	20.31	7.66	—	12.62	15000	100000	2100	60	1100	150	ND<250	—	—	—	—	—	MCC	
MW-2	02/07/03	20.31	6.52	—	13.79	11000	—	4400	24	ND<12	77	1900	—	—	—	—	0.7	MCC	
MW-2	05/02/03	20.31	6.40	—	13.91	16000	79000	1800	23	860	210	ND<350	—	—	—	—	—	MCC	
MW-2	08/14/03	20.31	7.77	—	12.54	13000	4300	1600	21	450	80	ND<400	—	—	—	—	0.9	MCC	
MW-2	11/14/03	20.31	7.85	—	12.46	12000	13000	1700	29	600	100	ND<600	—	—	—	—	0.7	MCC	
MW-2	03/01/04	20.31	6.10	—	14.21	17000	43000	3900	100	670	430	1800	—	—	—	—	0.9	MCC	
MW-2	06/30/04	20.31	7.61	—	12.70	14000	12000	3800	33	390	72	1900	—	—	—	—	0.42	MCC	
MW-2	10/20/04	20.31	7.12	—	13.19	14000	7900	3700	47	300	100	1700	—	—	—	—	—	MCC	
MW-2	03/24/05	20.31	5.78	—	14.63	15000	57000	3000	ND<25	400	58	ND<900	—	—	—	—	—	MCC	
MW-2	06/14/05	20.31	6.92	—	13.39	15000	53000	2100	31	310	49	530	—	—	—	—	0.8	MCC	
MW-2	09/12/05	20.31	8.25	0.01	12.06	10000	11000	2600	30	200	ND<10	660	—	—	—	—	2.6	MCC	
MW-2	01/04/06	20.31	6.45	<0.01	13.86	7300	14000	1500	18	180	47	ND<250	—	—	—	—	—	MCC	
MW-2	04/04/06	20.31	6.14	—	14.17	9500	130000	2200	35	170	52	ND<250	—	—	—	—	—	MCC	
MW-2	06/12/06	20.31	7.15	0.01	13.16	10000	29000	2200	46	74	59	460	—	—	—	—	—	MCC	
MW-2	09/08/06	20.31	8.22	sheen	12.09	12000	7400	1800	25	130	38	ND<300	—	—	—	—	—	MCC	
MW-3	11/04/84	20.57	8.92	—	11.65	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	—	—	MCC	
MW-3	01/11/95	20.57	5.67	—	14.90	—	—	—	—	—	—	—	—	—	—	—	—	—	
MW-3	02/24/95	20.57	6.11	—	14.46	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	—	—	MCC	
MW-3	05/25/95	20.57	6.24	—	14.33	91	ND<50	28.0	12.0	2.1	6.5	—	—	—	—	—	—	4.6	MCC
MW-3	08/30/95	20.57	8.27	—	12.30	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	—	—	—	MCC
MW-3	11/16/95	20.57	8.82	—	11.75	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	—	—	—	MCC
MW-3	03/20/96	20.57	5.44	—	15.13	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	—	—	—	MCC
MW-3	06/13/96	20.57	6.17	—	14.40	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	—	MCC
MW-3	09/23/96	20.57	6.57	—	14.00	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	4.9	MCC
MW-3	12/19/96	20.57	6.59	—	13.98	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	—	—	—	—	MCC
MW-3	05/09/97	20.57	7.00	—	13.57	ND<50	59	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	3.3	MCC
MW-3	09/11/97	20.57	6.92	—	13.95	ND<50	82	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	7	MCC
MW-3	12/15/97	20.57	7.03	—	13.54	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	6.5	MCC
MW-3	03/11/98	20.57	4.71	—	15.86	ND<50	ND<50	ND<0.5	1.8	0.6	3.1	ND<5.0	—	—	—	—	—	6.1	MCC
MW-3	06/23/98	20.57	6.33	—	14.24	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	5.7	MCC
MW-3	12/01/98	20.57	6.74	—	13.83	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	4	MCC
MW-3	03/30/99	20.57	5.68	—	14.89	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	4.6	MCC
MW-3	08/16/99	20.57	7.67	—	12.90	ND<50	—	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	2.7	MCC
MW-3	12/31/99	20.57	8.07	—	12.50	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	9.0	MCC
MW-3	03/31/00	20.57	5.99	—	14.98	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	2.8	MCC
MW-3	07/14/00	20.57	7.84	—	12.93	68	ND<50	0.89	1.7	2.1	9.5	ND<5.0	—	—	—	—	—	2.1	MCC
MW-3	10/04/00	20.57	8.34	—	12.23	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	2.0	MCC
MW-3	12/21/00	20.57	7.00	—	13.57	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	1.4	MCC
MW-3	04/13/01	20.57	6.38	—	14.19	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	1.3	MCC
MW-3	06/27/01	20.57	7.37	—	13.20	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—	—	—	—	—	1.9	MCC
MW-3	09/20/01	20.57	8.25	—	12.52	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	—</						

TABLE 1 - SUMMARY OF GROUNDWATER SAMPLING
 XTRA OIL COMPANY SERVICE STATION
 1701 PARK STREET, ALAMEDA, CALIFORNIA

ALISTO PROJECT NO. 10-210

WELL ID	DATE OF MONITORING/SAMPLING	CASING ELEVATION (Feet)	DEPTH TO WATER (a) (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	OTHER SVOCs (ug/l)	NAPHTHALENE (ug/l)	BENZO-PYRENE (ug/l)	DO (ppm)	LAB
MW-3	02/07/03	20.57	5.85	---	14.82	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	2.8	MCC
MW-3	05/02/03	20.57	5.75	---	14.82	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	---	MCC
MW-3	08/14/03	20.57	7.74	---	12.83	ND<50	ND<50	1.6	ND<0.5	0.82	3.2	ND<5.0	---	---	---	2.1	MCC
MW-3	11/14/03	20.57	7.75	---	12.82	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	0.8	MCC
MW-3	03/01/04	20.57	5.17	---	15.40	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	0.92	MCC
MW-3	06/30/04	(e) 20.57	7.48	---	13.09	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	0.92	MCC
MW-3	10/26/04	20.57	6.47	---	14.10	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	3.0	MCC
MW-3	03/24/05	20.57	4.70	---	15.87	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	3.0	MCC
MW-3	06/14/05	20.57	5.99	---	14.58	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	2.7	MCC
MW-3	09/12/05	20.57	7.89	---	12.68	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	3.3	MCC
MW-3	01/04/06	(g) 20.57	5.10	---	15.47	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	---	MCC
MW-3	04/04/06	(h) 20.57	4.93	---	15.64	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	---	MCC
MW-3	06/12/06	20.57	6.20	---	14.37	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	---	MCC
MW-3	09/08/06	20.57	7.81	---	12.76	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	---	---	---	---	MCC
MW-4	05/09/97	19.69	7.17	---	12.52	31000	15000	540	1300	1000	4500	1900	ND	2.1	ND<2	3.1	MCC/CHR
MW-4	09/11/97	19.69	7.71	---	11.98	40000	6500	2000	3100	1700	7700	3400	---	---	---	6.4	MCC
MW-4	12/15/97	19.69	7.87	---	11.82	14000	2100	910	690	390	2700	1700	---	---	---	5.5	MCC
MW-4	03/11/98	19.69	3.51	---	16.18	2800	780	68	94	72	430	140	---	---	---	6	MCC
MW-4	06/23/98	19.69	5.21	---	14.48	15000	2800	240	630	720	2700	370	---	---	---	5.4	MCC
MW-4	12/01/98	19.69	6.45	---	13.24	21000	---	580	1000	530	3600	1700	---	---	---	4.4	MCC
MW-4	03/30/99	19.69	5.41	---	14.28	41000	3600	3100	3400	1700	6700	5700	---	---	---	4.6	MCC
MW-4	08/16/99	19.69	7.35	---	12.34	24000	---	4600	940	1200	2700	9700	---	---	---	3.4	MCC
MW-4	12/31/99	19.69	7.71	---	11.98	14000	2000	510	630	600	3100	3500	---	---	---	10.1	MCC
MW-4	03/31/00	19.69	5.22	---	14.47	14000	1400	470	480	580	2200	2000	---	---	---	6.8	MCC
MW-4	07/14/00	19.69	7.31	---	12.38	37000	4300	770	1500	1800	7200	1700	---	---	---	3.3	MCC
MW-4	10/04/00	19.69	7.11	---	12.58	47000	3200	870	2000	2600	9800	ND<1500	---	---	---	1.7	MCC
MW-4	12/21/00	19.69	6.66	---	12.83	13000	1800	370	410	460	1500	---	---	88	ND<10	0.6	MCC
MW-4	04/13/01	19.69	6.02	---	13.67	20000	2800	710	640	620	2900	2300	---	---	---	1.0	MCC
MW-4	06/27/01	19.69	6.72	---	12.97	23000	2100	510	1100	1100	4300	1400	---	---	---	1.0	MCC
MW-4	09/20/01	19.69	7.30	---	12.39	36000	4400	460	1300	1700	6700	1000	---	---	---	2.0	MCC
MW-4	12/21/01	19.69	4.55	---	15.14	11000	5600	130	250	480	2400	ND<320	---	---	---	1.6	MCC
MW-4	02/04/02	19.69	5.82	---	13.87	50000	12000	3000	8100	1900	7600	ND<500	---	---	---	2.0	MCC
MW-4	05/07/02	19.69	6.08	---	13.61	17000	3200	270	620	870	3700	ND<500	---	---	---	2.6	MCC
MW-4	08/22/02	19.69	7.45	---	12.24	26000	3800	720	920	1500	6500	2100	---	---	---	4.6	MCC
MW-4	11/08/02	19.69	6.74	---	12.95	20000	3600	280	630	1200	5100	670	---	---	---	---	MCC
MW-4	02/07/03	19.69	4.86	---	14.83	13000	---	520	1300	ND<25	3600	420	---	---	---	2.1	MCC
QC-1 (c)	02/07/03	---	---	---	---	13000	---	510	1200	83	3100	420	---	---	---	---	MCC
MW-4	05/02/03	19.69	5.45	---	14.24	18000	3800	280	550	810	3600	470	---	---	---	---	MCC
MW-4	08/14/03	19.69	7.20	---	12.49	31000	4100	720	810	1300	6400	1100	---	---	---	1.2	MCC
MW-4	11/14/03	19.69	6.92	---	12.77	18000	3300	450	320	1000	4500	ND<1000	---	---	---	0.7	MCC
QC-1 (e)	11/14/03	---	---	---	---	---	---	440	310	1100	4500	---	---	---	---	---	MCC
MW-4	03/01/04	19.69	5.10	---	14.59	15000	2500	110	210	580	2700	240	---	---	---	0.61	MCC
QC-1 (e)	03/01/04	---	---	---	---	15000	---	110	220	610	2800	250	---	---	---	---	MCC
MW-4	06/30/04	(e) 19.69	6.70	---	12.99	23000	5800	330	550	1300	5200	ND<900	---	---	---	0.61	MCC
MW-4	10/26/04	19.69	6.05	---	13.64	19000	3800	150	380	950	3800	ND<300	---	---	---	2.0	MCC
MW-4	03/24/05	19.69	4.23	---	15.46	6600	1900	62	28	190	950	ND<120	---	---	---	2.0	MCC
MW-4	06/14/05	19.69	5.58	---	14.11	23000	5600	160	510	1200	4000	ND<500	---	---	---	2.1	MCC
MW-4	09/12/05	19.69	7.84	---	11.85	24000	4000	1400	640	1400	3900	1400	---	---	---	2.2	MCC
MW-4	01/04/06	(g) 19.69	4.65	---	15.04	20000	2800	740	350	930	2900	1100	---	---	---	---	MCC
MW-4	04/04/06	(h) 19.69	4.62	---	15.07	8100	2000	300	64	490	1200	530	---	---	---	---	MCC
MW-4	06/12/06	19.69	6.07	sheen	13.62	24000	4500	270	390	1300	3600	340	---	---	---	---	MCC
MW-4	09/08/06	(i) 19.69	7.42	sheen	12.27	20000	3100	1700	240	930	2000	1800	---	---	---	---	MCC
QC-2 (f)	11/04/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	MCC
QC-2 (f)	02/24/95	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	MCC
QC-2 (f)	05/25/96	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	MCC
QC-2 (f)	08/30/95	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	MCC
QC-2 (f)	11/16/95	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	MCC
QC-2 (f)	03/20/96	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	MCC
QC-2 (f)	06/13/96	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	MCC

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline using EPA Methods 5030/8015
 TPH-D Total petroleum hydrocarbons as diesel using EPA Methods 3510/8015
 B Benzene using EPA Methods 5030/8020
 T Toluene using EPA Methods 5030/8020
 E Ethylbenzene using EPA Methods 5030/8020
 X Total xylenes using EPA Methods 5030/8020
 MTBE Methyl tert butyl ether using EPA Methods 5030/8020
 SVOCs Semivolatile organic compounds using EPA Method 8270
 DO Dissolved oxygen
 ug/l Micrograms per liter
 ppm Parts per million
 --- Not analyzed/applicable/measurable
 ND Not detected above reported detection limit
 MCC McCampbell Analytical, Inc.
 CHR Chromatlab, Inc.

NOTES:

(a) Top of casing surveyed relative to mean sea level.
 (b) Groundwater elevations expressed in feet above mean sea level, and adjusted assuming a specific gravity of 0.75 for free product.
 (c) Blind duplicate.
 (d) Other SVOCs detected at concentrations of 200 ug/l 2-methylnaphthalene and 14 ug/l phenanthrene.
 (e) Wells monitored 6/15/04.
 (f) Travel blank.
 (g) 4th Quarter 2005 sampling
 (h) 1st Quarter 2006 sampling
 (i) Well recharge was exceedingly slow; not to be used in prepaying contours