

October 29, 1996

Mr. Scott Seary
Hazardous Materials Program
Department of Environmental Health
1131 Harbor Bay Pkwy. 2nd floor
Alameda, Ca. 94502-6577

Regarding: 3495 Castro Valley Blvd. Castro Valley

Dear Mr. Seary,

Please find enclosed the quarterly report for the above location. If you have any questions feel free to contact us.

Sincerely

Keith Simas

P & D Environmental

4020 Panama Court Oakland, CA 94611 Telephone (510) 658-6916

> August 16, 1996 Report 0014.R21

Mr. Ted Simas Mr. Keith Simas XTRA OIL Company 2307 Pacific Ave. Alameda, CA 94501

SUBJECT: QUARTERLY GROUNDWATER MONITORING AND SAMPLING REPORT

XTRA OIL Company

3495 Castro Valley Blvd.

Castro Valley, CA

Gentlemen:

P&D Environmental, a division of Paul H.King, Inc. (P&D) is pleased to present this report documenting the results of the most recent quarterly monitoring and sampling of the wells at the subject site. This work was performed in accordance with P&D's proposal 050796.Pl dated May 7, 1996. The wells were monitored on July 9, 1996 at the same time that Allisto Engineering monitored and sampled the wells at the former BP station across Redwood Road from the subject site, and were monitored and sampled on July 27, 1996. The reporting period is for May through July, 1996. A Site Location Map (Figure 1) and Site Plan (Figure 2) are attached with this report.

BACKGROUND

The site is currently used as a gasoline station. Four 12,000 gallon underground fuel storage tanks are present at the site. Three of the tanks contain gasoline and the fourth tank contains diesel fuel. A 550 gallon waste oil tank was removed from the site in November, 1988. The fuel tanks were replaced during August, 1992.

Three monitoring wells, designated as MW1, MW2 and MW3 were installed at the site on February 14 and 15, 1990 by Western Geo-Engineers. The subsurface materials encountered in the boreholes consisted primarily of silt and clay. The locations of the monitoring wells are shown in Figure 2. Soil samples collected during drilling of the boreholes for the monitoring wells revealed the presence of total petroleum hydrocarbons as gasoline (TPH-G) and total petroleum hydrocarbons as diesel (TPH-D). TPH-G was encountered in borehole MW1 at depths of 5 and 10 feet below grade at concentrations of 40 and 1,400 ppm, respectively; in borehole MW2 at depths of 10 and 15 feet below grade at concentrations of 230 and 95 ppm, respectively; and in borehole MW3 at depths of 5, 10 and 15 feet at concentrations of 140, 250 and 25 ppm, respectively. In addition, 120 ppm TPH-D was detected in borehole MW3 at a depth of 5 feet. Soil samples collected at a depth of 20 feet in borehole MW1 and at a depth of 18 feet in boreholes in MW2 and MW3 did not show any detectable concentrations of TPH-G or TPH-D. Groundwater was encountered in the boreholes at depths of approximately 15 to 16 feet below grade.

On February 15, 1990 Western Geo-Engineers drilled three exploratory boreholes at the site designated as SB1, SB2 and SB3. The subsurface materials encountered in the boreholes consisted primarily of silt and clay. The approximate locations of the boreholes are shown on Figure 2. It is P&D's understanding that soil samples were collected from the exploratory boreholes at depths of 10 and 12 feet and evaluated in the field using a photo ionization detector. In borehole SB1, TPH-G was detected at the depths of 10 and 12 feet at concentrations of 1,700 and 450 ppm, respectively. In boreholes SB2 and SB3, TPH-G was detected at the depths of 10 and 12 feet in both boreholes at concentrations of 800 ppm and greater than 2,000 ppm, respectively. A

August 16, 1996 Report 0014.R21

groundwater monitoring and sampling program was initiated at the site on February 20, 1990.

It is P&D's understanding that during fuel tank replacement activities in August, 1992 soil surrounding the tank pit was removed and disposed of offsite. An extraction well, designated as EW1, was designed and constructed in one corner of the new tank pit by K&B Environmental at the time of installation of the new tanks. The location of EW1 is shown on Figure 2.

On February 7, 1996 well MW2 was destroyed for the purpose of widening Redwood Road. The destruction was overseen by ACC Environmental Consultants of Oakland, California.

FIELD ACTIVITIES

On July 9, 1996, the two groundwater monitoring wells were monitored to continue the coordinated joint characterization of subsurface conditions in the vicinity of the site with Allisto Engineering, Inc.. Allisto Engineering, Inc. monitored and sampled the wells of the former BP station across Redwood Road for the subject site on July 9, 1996.

On July 26, 1376 the two groundstater monitoring wells at the site, MWI and MW3, were monitored and sampled by PaD personnel. Extraction well EWI was not monitored or sampled during the quarter. The wells were monitored for depth to water and the presence of free product or sheen. Depth to water was measured to the nearest 0.01 foot using an electric water level indicator. The presence of free product and sheen was evaluated using a transparent bailer. No free product was observed in either of the monitoring wells. However, sheen was classified in both of wells MW1 and MW3. Petroleum-absorbent socks were present in both of the wells. Depth to water level measurements are presented in Table 1.

Prior to sampling, the monitoring wells were purged of a minimum of three casing volumes of water, or until the wells had been purged dry. During purging operations, the field parameters of electrical conductivity, temperature and pH were monitored. Once the field parameters were observed to stabilize, and a minimum of three casing volumes had been purged or the wells had been purged dry and partially recovered, water samples were collected using a clean Teflon bailer.

The water samples were transferred to 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 assure that no air bubbles were present.

The VOA vials and bottles were then transferred to a cooler with ice, until they were transported to McCampbell Analytical, Inc. in Pacheco, California. McCampbell Analytical, Inc. is a State-certified hazardous waste testing laboratory. 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 the monitoring wells twice during the quarter. The measured depth to water at the site in wells MW1 and MW3 on July 9, 1996 was 8.16 and 7.61 feet, respectively, and on July 26, 1996 8.39 and 7.84 feet, respectively. Groundwater levels have decreased in wells MW1 and MW3 by 0.92, and 1.03 feet, respectively, since the previous monitoring on April 23, 1996. There is no calculated groundwater flow direction for the water level data collected on July 9 and 26, 1996, because well MW2 was destroyed on February 7, 1996, and has not yet been replaced.

LABORATORY RESULTS

The groundwater samples collected from the monitoring wells were analyzed for TPH-G using EPA Method 5030 and Modified EPA Method 8015; benzene, toluene, ethylbenzene, total xylenes (BTEX), and MTBE using EPA Method 8020; and for TPH-D using EPA Method 3510 in conjunction with Modified EPA Method 8015.

The laboratory analytical results for the groundwater samples from wells MW1 and MW3 show TPH-G concentrations of 76 and 130 ppm, respectively; benzene concentrations of 11 and 40 ppm, respectively; and TPH-D concentrations of 11 and 24 ppm, respectively. Review of the laboratory analytical reports indicates that the TPH-D results for well MW1 consist of gasoline-range compounds and that the TPH-D results for well MW3 consist of both gasoline and diesel compounds.

Since the previous quarter, TPH-G and TPH-D concentrations have increased in well MW1, and decreased in well MW3. The laboratory analytical results of the groundwater samples are summarized in Table 2. Copies of the laboratory analytical reports and chain of custody documentation are attached with this report.

DISCUSSION AND RECOMMENDATIONS

P&D recommends that use of absorbent socks in the wells be continued. The socks should be checked periodically and replaced as needed.

Based on the laboratory analytical results of the water samples collected from the monitoring wells, P&D recommends that the quarterly groundwater monitoring and sampling program be continued. In addition, P&D recommends that future monitoring and sampling efforts continue to be coordinated with other sites in the vicinity of the subject site which are presently being monitored and sampled.

DISTRIBUTION

Copies of this report should be sent to Mr. Kevin Graves at the Regional Water Quality Control Board, San Francisco Bay Region, and to Mr. Scott Seery at the Alameda County Department of Environmental Health. Copies of the report should be accompanied by a transmittal letter signed by the principal executive officer of the XTRA OIL Company.

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 judgement 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 is used in this report. This report presents our professional judgement 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.

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

Sincerely,

P&D Environmental

Paul H. King Hydrogeologist

Don R. Braun

Certified Engineering Geologist

Registration No.: 1310 Expiration Date: 6/30/98

PHK/aog 0014.R21

Attachments: Tables 1 & 2

Site Location Map (Figure 1) Site Plan (Figure 2)

Field Parameter Forms

Laboratory Analytical Results Chain of Custody Documentation

DON R. BRAUN No. 1310 CERTIFIED ENGINEERING **GEOLOGIST**

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TABLE 1 WELL MONITORING DATA

MW1	Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
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	•	8/19/91		9.60	

NOTES:
* = Surveyed on March 24, 1993
** = Surveyed on December 5, 1992

TABLE 1 WELL MONITORING DATA (Continued)

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW3	7/26/96 7/09/96 4/23/96 2/07/96 1/29/96 10/26/95 7/28/95 5/02/95 2/23/95	176.41*	7.84 7.61 6.81 5.05 5.77 7.72 7.80 6.50 7.24	169.57 168.80 169.60 170.36 170.64 168.69 168.61 169.91
	11/18/94 8/22/94 5/19/94 2/24/94 11/24/93 8/30/93 5/18/93 2/23/93 11/13/92 5/29/92 1/14/92 12/23/91 11/25/91 10/10/91 9/17/91 8/19/91	190.97** 175.00	7.65 7.15 6.68 7.55 7.64	170.36 168.76 169.26 169.73 168.86 168.77 169.29 168.40 191.12 166.55 165.53 165.63 165.81 165.57 165.80 166.05

^{* =} Surveyed on March 24, 1993 ** = Surveyed on December 5, 1992

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
				les Collec July 26, 19		Denzene	Aylenes
MW1***	11	76	ND	11	13	2.4	10
MW2	Not Samp	led (Dest	royed or	February	7, 1996)		
MW3***	24	130	0.89	40	22	2.4	12
EW1	N o	t		S les Collect pril 23, 1		p 1	e d
MW1***	5.7	73	ND	8.6	12	2.2	9.8
MW2	Not Samp	led (Dest	royed on	February	7, 1996)		
MW3***	280	170	0.72	34	22	2.2	14
EW1	Not Samp	led		les Collect nuary 29, 1			
MW1***	6.6	81	0.25	7.6	13	1.9	8.9
MW2***	4.6	38	0.0071	1.9	5.7	1.1	5.9
MW3 ***	45	150	0.54	32	21	1.9	12
EW1	Not Samp	leđ		les Collect tober 26, 1			
MW1****	62	89	ND	7.8	12	2.4	11
MW2	900	74	ND	2.9	5.9	2.0	10
MW3	33	130	0.69	37	21	0.21	11
EW1	Not Samp	led.					

NA = Not Analyzed

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

^{*** =} Review of the laboratory analytical reports indicates that the TPH-D results consist of gasoline range compounds in wells MW1, MW2, and MW3.

**** = Review of the laboratory analytical reports indicates that the TPH-D results consist of gasoline range compounds in well MW1.

August 16, 1996 Report 0014.R21

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	•				
	Samples Collected on July 28, 1995										
MW1****	2.0	35	NA	3.8	8.7	1.1	6.5				
MW2****	2.0	15	NA	1.4	2.3	0.62	3.2				
MW3****	1.9	86	NA	28	16	1.3	7.6				
EW1	Not Samp	led.		les Collect May 2, 199							
MW1@	6.5	86	8.9	14	2.3	11					
MW2@	6.6	55	3.3	10	1.8	10					
MW3@	9.7	170	43	30	2.5	14					
EW1	Not Samp	led.		les Collect oruary 24,							
MW1	9.1	90	7.5	12	1.5	11					
MW2	22	67	4.9	11	1.8	11					
MW3	9.2	130	31	19	1.8	10					
EW1	Not Samp	led.		les Collect vember 18,							
MW1	10	96	9.3	14	2.5	11					
MW2	5.0	86	11	17	1.8	12					
MW3	23	140	38	22	2.0	11					
EW1	Not Samp	led.									

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

^{***** =} Review of the laboratory analytical reports indicates that the TPH-D results consist of both gasoline and diesel range compounds in well MW3 and gasoline-range compounds in wells MW1 and MW2.

^{@ =} Review of the laboratory analytical reports shows that the TPH-D results are gasoline range compounds in well MW1 and both gasoline-range and diesel-range compounds in wells MW2 and MW3.

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS (Continued)

			•			
Well No.	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes
•				les Collect gust 22, 19		
MW1	8.3	100	9.0	11	2.1	9.4
MW2	. 4.1	91	10	13	1.5	9.0
MW3	5.3	170	35	20	1.8	10
EW1	Not Sampl	.ed.	_			
				les Collect May 19, 199		
MW1	30	100	12	14	3.5	17
MW2	5.8	62	9.2	13	1.3	8.4
MW3	30	150	38	25	2.4	14
EW1	Not Sampl	.ed.			_	
				les Collectoruary 28, 1		
MW1	110	90	11	9.6	2.1	9.9
MW2	13	91	13	16	1.5	9.0
ммз	210	110	36	21	1.9	11
EW1	Not Sampl	ed.				
				les Collecto ember 24, 1		
MW1	8.2	66	8.3	8.9	2.0	11
MW2	79	12	13	17	2.5	17
MW3	24	160	48	26	2.2	12
EW1	Not Sampl	ed.				

TPH-G = Total Petroleum Hydrocarbons as Gasoline.
TPH-D = Total Petroleum Hydrocarbons as Diesel.
Results in parts per million (ppm), unless otherwise indicated.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

				-			
Well No.	TPH-D	TPH-G	Benzer	ne Toluene	Ethyl- benzene	Total Xylenes	
				ples Collec August 30,			
MW1	9.4	77	6.4	11	2.2	12	
MW2	110	110	11	14	1.8	11	
MW3	32	130	36	21	1.9	8.2	
EWl	Not Sar	mpled.					
				ples Collec May 18, 19			
MW1	30	92	4.0	11	2.5	15	
MW2	44	67	9.2	12	1.4	9.3	
MW3	7.2	130	36	21	2.1	12	
EW1	Not Samp	oled.	Sam	ples Collec	ted		
				bruary 23,			
MW1	14	100	4.5	11	2.1	12	
MW2	7.0	76	12	17	1.6	9.6	
MW3	8.1	110	31	18	1.9	11	
EW1	9.6	66	14	8.5	1.4	9.8	
	Samples Collected on November 13, 1992						
MWl	4.4	120	5.8	10	2.1	13	
MW2	8.2	79	10	13	1.4	8.6	
ммз	4.7	140	38	24	2.0	12	
EW1	13	62	11	9.2	1.1	9.6	

TPH-G = Total Petroleum Hydrocarbons as Gasoline. TPH-D = Total Petroleum Hydrocarbons as Diesel. ND = Not Detected.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	Benzen	e Toluene	Ethyl- benzene	Total Xylenes
				oles Collec May 27, 19		
MW1	11	120	8.8	16	2.3	15
MW2	130	89	18	19	1.7	14
MW3	27	370	91	57	3.0	21
				oles Collec inuary 14,		
MW1	19	39	7.3	8.7	1.3	8.9
MW2	1600	59	17	14	1.8	15
MW3	270	130	76	30	3.4	21
				oles Collec cember 23,		
MWl	34	78	9.3	7.3	0.54	13
MW2	700	2100	36	130	79	560
KW3	540	740	30	61	31	180
				oles Collec vember 25,		
MW1	36	170	5.5	5.6	1.6	8.4
MW2	130	230	11	9.7	1.4	9.7
мwз	74	150	65	31	3.4	18
				cles Collectober 10,		
MW1	19	28	4.1	4.7	1.0	4.8
MW2	360	85	21	25	2.1	14
мwз	39	140	57	31	2.2	14

TPH-G = Total Petroleum Hydrocarbons as Gasoline. TPH-D = Total Petroleum Hydrocarbons as Diesel.

ND = Not Detected.

NA = Not Analyzed.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	Benzene	o Toluene	Ethyl- benzene	Total Xylenes	
				les Collect tember 17,			
MW1	19	39	4.9	4.1	1.2	5.9	
MW2	56	74	10	11	1.4	8.1	
KWM3	140	180	47	25	2.6	15	
			Samp On Au	les Collect igust 19, 1	ed 991		
MW1	47	48	13	8.4	0.99	29	
MW2	19	69	26	22	2.1	18	
MW3	150	170	82	31	4.4	22	
	Samples Collected On July 20, 1991						
MW1	49	100 .	11	14	2.3	17	
MW2	100	51	9.9	7.7	1.2	7.5	
мм3	270	450	46	29	3.5	21	
				les Collect June 20, 19			
MW1	42	76	4.7	7.1	1.5	9.8	
MW2	69	87	8.1	8.4	1.1	8.9	
мw3	210	920	39	49	13	69	
				les Collect May 17, 199			
MW1	26	72	7.7	9.9	ND	11	
MW2	33	62	5.9	6.3	1.2	9.0	
мw3	70	170	32	22	2.2	18	

TPH-G = Total Petroleum Hydrocarbons as Gasoline. TPH-D = Total Petroleum Hydrocarbons as Diesel.

ND = Not Detected.

NA = Not Analyzed.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	Benzen	e Toluene	Ethyl- benzene	Total Xylenes
				ples Collec April 15, 1		
MW1	NA	56	6.5	8.5	0.41	9.9
MW2	NA	82 ′	5.3	7.4	1.0	9.4
ммз	NA	110	31	15	0.88	7.4
			Samp On 1	oles Collec March 21, 1	teđ 991	•
MWl	NA	36	4.5	5.7	0.087	7.3
MW2	NA	62	9.3	11	0.35	9.7
MW3	NA	87	30	14	0.69	5 .4
				ples Collectory 15,		
MW1	NA	120	7.4	6.6	ND	13
MW2	NA	200	12	12	1.7	14
MW3	NA	230	44	40	ND	31
				les Collections 14,		•
MW1	NA	33	3.9	2.9	0.21	5.3
MW2	NA	78	11	8.7	0.58	8.0
MW3	NA	160	48	25	1.0	16
				oles Collectember 27,		
MW1	NA	28	3.7	3.5	0.01	6.5
MW2	NA	59	8.4	12	0.88	9.0
мwз	NA	25	7.2	6.4	0.42	3.4

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

ND = Not Detected.

NA = Not Analyzed.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	
				les Collecto gust 23, 19			
MW1	NA	40	5.1	4.9	0.35	6.0	
MW2	NA	96	8.1	8.4	1.5	8.6	
мwз	NA	220	67	46	27	18	
	Samples Collected On July 20, 1990						
MW1	44	NA	5.1	4.2	ND	9.1	
MW2	86	NA	9.1	14	0.94	13	
MW3	88	NA	25.1	21.1	0.61	14.1	
				les Collecto arch 19, 19			
MW1	NA	40	3.7	1.1	ND	3.3	
MW2	NA	50	7.7	8.7	0.075	5.6	
MW3	ΝA	210	38	28	1.8	12	
				les Collecte ruary 20, 1			
MW1+	NA	7.6	1.6	ND	ND	1.3	
MW2+	NA	38	7.3	3.1	0.075	6.8	
MW3+	NA	46	20	15	1.8	9.7	

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

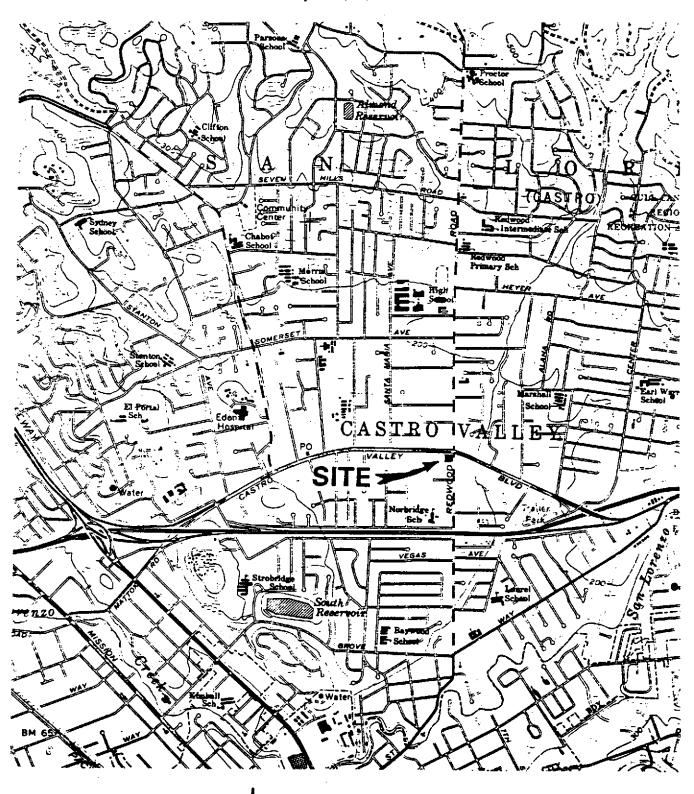
ND = Not Detected.

NA = Not Analyzed.

+ Indicates Organic Lead was not detected.

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Base Map from: U.S. Geological Survey Hayward, Calif. 7.5 Minute Quadrangle Photorevised 1980

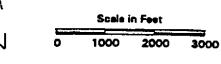
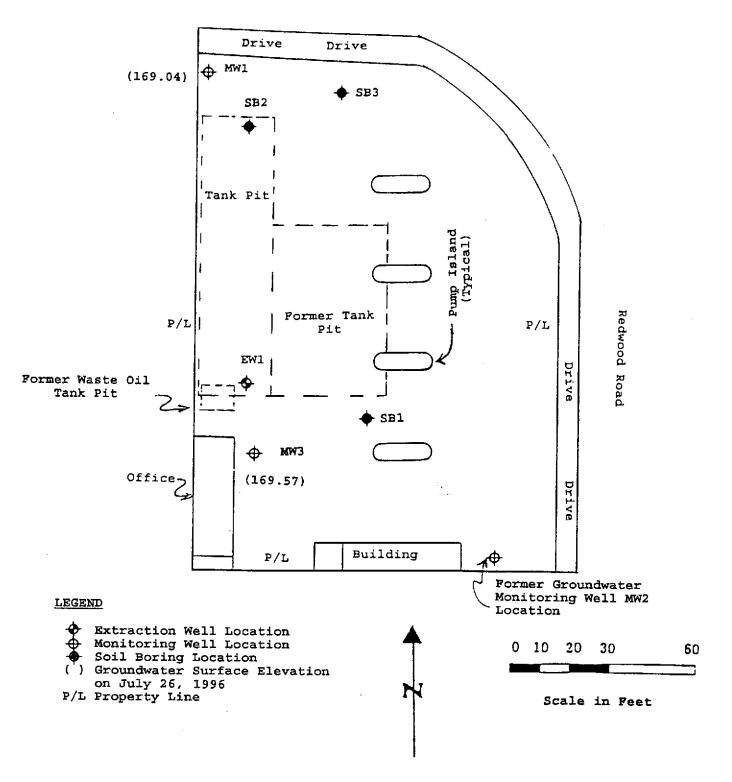


Figure 1 SITE LOCATION MAP XTRA OIL Company 3495 Castro Valley Blvd. Alameda, California

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Castro Valley Blvd.



Base Map From XTRA OIL Company

Figure 2 SITE PLAN XTRA OIL Company 3459 Castro Valley Blvd. Castro Valley, CA

P&D ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEET

site Name XIRA CIL Casho Valle	well No. MW I
Job No. 0014	Date7/26/96
TOC to Water (ft.) 2.39	Sheen
Well Depth (ft.) 7000	Free Product Thickness
Well Diameter 4"	Sample Collection Method
Gal./Casing Vol. 7.5	Teflon Bailer
TIME GAL. PURGED PH	TEMPERATURE (C) ELECTRICAL (US/CAM)
9:35 3.5 7.40	0 60.1 9.45 ×100
9:40 7.0 7.32	
9:45 10.5 7.19	160.1 9.75
9:50 14.0 7.20	
9:55 _ 17.5 _ 7.15	
10:00 -21.0 710	
10:05 24.5 7.12	
10:15 Sampled	
	•
NOTE C.	
NOTES: AOG	
Well purged using	Honda pump & foot value
PURGE 10.92 \ \(\)	. 1

P&D ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEET

Site Name MCA OIL, Casho	Valley	Well No	MW3
Job No. 0014	_	Date	1/26/96
TOC to Water (ft.) 7.74		Sheen	yes
Well Depth (ft.) 70.0		Free Produc	t Thickness \$
Well Diameter +"			lection Method
Gal./Casing Vol. 7.0	<u> </u>	Teflon B	ailes
TIME GAL. PURGED	_Hq	TEMPERATURE (%)	CONDUCTIVITY (LE/CM)
10:35 4.0	620	_(00.1	1.35 ×1000
10.40 8.0	6.75	60.2	1,45
10:45 12:0	6.70	60.2	1.65
10:50 16:0	6.72	1,6.1	1.30
10:55 70.0	6.65	60.1	1.78
11:00 24.0	6.70	60.1	_1.87
11:15 Sungled			1.50

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+11-1			
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			·
NOTES: ACC			
Well purged USTI	y Hond	a pump & B	rotualue.
PURCE10 93	0	1 (

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

P & D Environmental		Cli	Client Project ID: # 0014; Xtra Oil Company, Date Sampled: 07/26/96 Castro Valley									
4020 Panama Court Oakland, CA 94611			stro valley		Date Received: 07/26/96 Date Extracted: 07/27/96							
			ent Contact:	Paul King								
		Cli	ent P.O;		Date Analyzed: 07/27/96							
Gasoli EPA method	ne Range (C6-C s 5030, modified 80	C12) Vola 015, and 80	t ile Hydroc a 20 or 602; Calife	i rbons as G ornia RWQCI	asoline*, v 3 (SF Bay Re	vith Meth	yl tert-Butyl d GCFID(5030	Ether* &	BTEX*			
Lab ID	Client ID	Matrix	TPH(g) ⁺	мтве	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogat			
67294	67294 MW1 V		76,000,a,h	ND< 300	11,000	13,000	2400	10,000	104			
67295	MW3	w	130,000,a,h	, 20 0	40,000	22,000	2400	12,000	106			
					<u></u>							
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	T					<u> </u>						
otherwise stated; ND means not detected		W	50 ug/L	5.0	0.5	0.5	0.5	0.5				
		s	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005				

^{*} water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram, sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

4020 Panama Court		Client Project	ID: # 0014; Xtra Oil Company,	Date Sampled: 07/26/96 Date Received: 07/26/96				
		Castro Valley						
		Client Contact	t: Paul King	Date Extracted: 07/26-07/27/96				
		Client P.O:		Date Analyzed: 07/26-07/27/96				
EPA methods mo	Diesel 1 odified 8015, and 3550	Range (C10-C2 or 3510; Californ	23) Extractable Hydrocarbons as ia RWQCB (SF Bay Region) method G	s Diesel * CFID(3550) or GCFII	D(3510)			
Lab ID	Client ID	Matrix	TPH(d) ⁺		% Recovery Surrogate			
67294	MWI	w	11,000,d,h		106			
67295	MW3	w	24,000,d,a,h		98			
	·							
								
				···				
Reporting L wise stated; l	imit unless other- ND means not de	W	50 ug/L					
tected above the reporting limit		it s	1.0 mg/kg					

^{*} water samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP and STLC extracts in mg/L

[&]quot; 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.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

QC REPORT FOR HYDROCARBON ANALYSES

Date:

07/26/96-07/27/96

Matrix: Water

 Analyte	Concent Sample	ration	(ug/L)		* Reco			
	(#67232)	MS	MSD	Amount Spiked	Ms	MSD	RPD	
TPH (gas) Benzene Toluene Ethyl Benzene Xylenes	0.0	93.4 9.7 9.5 9.7 28.2	96.0 9.3 9.2 9.1 27.8	100.0 10.0 10.0 10.0 30.0	93.4 97.0 95.0 97.0 94.0	96.0 93.0 92.0 91.0 92.7	2.7 4.2 3.2 6.4 1.4	
TPH (diesel)	0	138	134	150	92	89	3.3	
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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CHAIN OF CUSTODY RECORD

											(<u>වර්ග</u>	<u>011/</u>	W89 PAG	E OI	
PROJECT NUMBER: PROJECT NA XTRA O				NAME:	Company,		1				77	7 7				
SAMPLED BY: (PRINTED AND SIGNATURE) Ahmad Ghandova allung				Company, Custro Valley		NUMBER OF CONTAINERS	AWAL YSICK			$^{\prime}/$	//	ا / / ا	SERVA THE	REMARK!	5	
SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION		NOU CON	Tar.	TON-CANALYSISES;		//			′/		
MMI	7/26/96		Water					X	X			1	7/8	Normal	Turn A	rand
MW3	"								<u>×</u>				"/	"		4
														67 4 67	可加州 化连接管	
													3			
				ICE	D CONDITION S	PRESERVA APPROPR	Was I	0&G	ME	ALS G	733					
		-		HEA	D SPACE ABSENT	APPROPR CONTAINS	عدة									
RELINQUISHED BY: (SIGNATURE) DATE TIME Phils: 205			RECEIVED BY: (SIGNATURE)			TOTAL NO. OF SAMPLES (THIS SHIPMENT) TOTAL NO. OF CONTAINERS (THIS SHIPMENT)					ORATORY: Clampbell Analytical		hie nk			
RELINQUISHED BY: (SIGNATURE) DATE TIME 2:476				RECEIVED BY: (SIGNATURE) LABORATORY CONTACT: LABORATORY PI Tom figural Ed. Hamilton (510) 7478-												
RELINQUISHED BY: (SIGNATURE) DATE TIME									S REQUEST SHEET)YES (X)NO							
1					REMARKS:	VOA's pr	eserve	d	u	214	e.	14	c L			