April 8, 1997

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

95:1 Nd 6-8dV 16

ENVIRONTENTAL PROTECTION

P & D Environmental

A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916

> February 10, 1997 Report 0014.R22

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

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 081696.P4 dated August 16, 1996. wells were monitored and sampled on January 20, 1997 at the same time that Allisto Engineering monitored and sampled the wells at the former BP station across Redwood Road from the subject site. The reporting period is for November, 1996 through January, 1997. The wells were not monitored or sampled during the previous quarter. A Site Location Map (Figure 1) and Site Plan (Figure 2) are attached with this report.

BACKGROUND

Four 12,000 gallon The site is currently used as a gasoline station. 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. 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 and 12 and SB3, at concentrations of 1,700 and 450 ppm, respectively. In boreholes SB2 and SB3, of PH-G was detected at the depths of 10 and 12 feet in both boreholes at To May Significant

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 January 20, 1997 the two groundwater monitoring wells at the site, MM1 and MM3, were monitored and sampled by P&D personnel 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 from the subject site on January 20, 1997.

Extraction well EW1 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 observed in both of wells HW1 and 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 once during the quarter. The measured depth to water at the site in wells MW1 and MW3 on January 20, 1997 was 7.12 and 6.35 feet, respectively. Groundwater levels have increased in wells MW1 and MW3 by 1.27, and 1.49 feet, respectively, since the previous monitoring on July 26, 1996. There is no calculated groundwater flow direction for the water level data collected on January 20, 1997, 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 80 and 150 ppm, respectively; benzene concentrations of 7.8 and 40 ppm, respectively; and TPH-D concentrations of 57 and 34 ppm, respectively. Review of the laboratory analytical reports indicates that the TPH-D results for wells MW1 and MW3 consist of gasoline-range compounds.

Since the previous quarter, TPH-G and TPH-D concentrations have increased in wells MW1 and 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.

DON R. BRAUN No. 1310 CERTIFIED

ENGINEERING

GEOLOGIST

Sincerely,

P&D Environmental

Paul H. King Hydrogaologist

Don R. Braun

Certified Engineering Geologist

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

PHK/aog 0014.R22

Attachments: Tables 1 & 2

Site Location Map (Figure 1)

Site Plan (Figure 2) Field Parameter Forms

Laboratory Analytical Results Chain of Custody Documentation

TABLE 1 WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW1	1/20/97 7/26/96 7/09/96 4/23/96 2/07/96 1/29/96 10/26/95 7/28/95 2/23/95 2/23/95 11/18/94 8/22/94 5/19/94 2/28/94 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	177.43* 200.00** 175.73	7.12 8.39 8.16 7.47 6.07 8.45 8.27 6.96 7.72 7.14 8.65 7.74 8.78 8.78 8.12 7.34 8.12 7.33 8.57 9.65 9.65 9.65	170.31 169.04 169.27 169.96 171.34 171.26 168.98 169.16 170.47 169.71 170.29 168.76 169.38 169.38 169.38 169.38 169.38
	9/17/91 8/19/91		9.50 9.31	166.23 166.42
MW2	2/07/96 1/29/96 10/26/95 7/28/95 5/02/95 2/23/95 11/18/94 8/22/94 5/19/94 2/28/94 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	RED (DESTROYED OF 176.04* 198.61** . 175.45	N FEBRUARY 7, 1996) 5.70 5.16 8.21 7.99 6.79 7.51 6.92 8.59 7.70 6.99 8.47 8.64 7.73 6.39 8.70 9.31 8.97 10.39 9.81 10.39 10.23	170.34 170.88 167.83 168.05 169.25 168.53 169.12 167.45 168.34 169.05 167.57 167.40 168.31 169.65 189.91 166.14 166.48 165.06 165.64 165.06
NOTES:	8/19/91		9.60	165.85

^{* =} 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	1/20/97 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 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	176.41* 190.97** 175.00	6.35 7.84 7.61 6.81 5.05 5.77 7.72 7.80 6.50 7.24 6.05 7.65 7.66 7.15 6.68 7.55 7.64 7.12 8.01 7.86 8.45 8.24 9.37 9.19 9.43 9.20	170.06 169.57 168.80 169.60 170.36 170.64 168.69 168.61 169.91 169.17 170.36 168.76 169.26 169.26 169.27 169.29 168.40 191.12 166.55 165.81 165.87
	8/19/91		8.95	166.05

NOTES:

^{* =} 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			
MW1***	57	80	0.25	7.8	8.3	1.9	8.9
MW2	Not Samp	pled (Des	troyed or	February	7, 1996)		
MW3***	34	150	1.30	40	14	2.6	12
EW1	Not Sam	pled					
,				les Collec July 26, 19			
MW1***	11	76	ИD	11	13	2.4	10
MW2	Not Sam	pled (Des	troyed or	February	7, 1996)		
MW3***	24	130	0.89	40	22	2.4	12
EW1	Not Samp	pled					
				les Collec pril 23, 1			
MW1***	5.7	73	ND	8.6	12	2.2	9.8
MW2	Not Samp	pled (Des	troyed or	1 February	7, 1996)		
MW3***	280	170	0.72	34	22	2.2	14
EW1	Not Samp	pled					
				les Collec nuary 29,			
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	pled					

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. Results in parts per million (ppm), unless otherwise indicated.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
				oles Collect ctober 26, 1			
MW1***	62	89	ND	7.8	12	2.4	11
MW2	900	74	ND	2.9	5.9	2.0	10
ммз	33	130	0.69	37	21	0.21	11
EW1	Not Samp	oled.	Came	oles Collect			
				July 28, 19			
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	oled.	Camr	oles Collect	·od		
				May 2, 199			
MW1@	6.5	86	NA	8.9	14	2.3	11
MW2@	6.6	55	NA	3.3	10	1.8	10
MM3@	9.7	170	NA	43	30	2.5	14
EW1	Not Samp	oled.	Come	oles Collect	م		
				bruary 24,			
MW1	9.1	90	NA	7.5	12	1.5	11
MW2	22	67	NA	4.9	11	1.8	11
ММЗ	9.2	130	NA	31	19	1.8	10
EW1	Not Samp	oled.					

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

Results in parts per million (ppm), unless otherwise indicated.

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 well MW1.

^{***** =} 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 MWl 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 Collecte ember 18, 1		
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 Sampl	ed.		les Collecte gust 22, 19		
MW1	8.3	100	9.0	11	2.1	9.4
MW2	4.1	91	10	13	1.5	9.0
мw3	5.3	170	3.5	20	1.8	10
EW1	Not Sampl	ed.		les Collecte May 19, 1994		
MW1	30	100	12	14	3.5	17
MW2	5.8	62	9.2	13	1.3	8.4
мwз	30	150	38	25	2.4	14
EW1	Not Sampl	ed.		les Collecte ruary 28, 1		
MWl	110	90	11	9.6	2.1	9.9
MW2	13	91	13	16	1.5	9.0
MW3	210	110	36	21	1.9	11
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	Benzen	e Toluene	Ethyl- benzene	Total Xylenes
				oles Collec vember 24,		
MWl	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 Sam	pled.		ples Collec ugust 30, 1		
MW1	9.4	77	6.4	11	2.2	12
MW2	110	110	11	14	1.8	11
ммз	32	130	36	21	1.9	8.2
EW1	Not Sa	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 Sam	pled.		ples Collec		
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

NOTES:

 ${\tt TPH-G} = {\tt Total}$ Petroleum Hydrocarbons as Gasoline. ${\tt TPH-D} = {\tt Total}$ Petroleum Hydrocarbons as Diesel.

ND = Not Detected.

Results in parts per million (ppm), unless otherwise indicated.

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS (Continued)

Well No.	TPH-D	TPH-G	Benzen	e Toluene	Ethyl- benzene	Total Xylenes
				oles Collec vember 13,		
MW1	4.4	120	5.8	10	2.1	13
MW2	8.2	79	10	13	1.4	8.6
MW3	4.7	140	38	24	2.0	12
EW1	13	62	11	9.2	1.1	9.6
		·		les 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 anuary 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
			Sam <u>r</u> On De	oles Collec cember 23,	ted 199 1	
MW1	34	78	9.3	7.3	0.54	13
MW2	700	2100	36	130	79	560
EWM	540	740	30	61	31	180
				ples Collect vember 25,		
MW1	36	170	5.5	5.6	1.6	8.4
MW2	130	230	11	9.7	1.4	9.7
ммз	74	150	65	31	3.4	18

 $\mathbf{TPH}\mathbf{-G} = \mathbf{Total}$ Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

ND = Not Detected.

NA = Not Analyzed.
Results in parts per million (ppm), unless otherwise indicated.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes
				les Collecte cober 10, 1		
MW1	19	28	4.1	4.7	1.0	4.8
MW2	360	85	21	25	2.1	14
WM3	39	140		31 les Collecte cember 17,		14
MW1	19	39	4.9	4.1	1.2	5.9
MW2	56	74	10	11	1.4	8.1
MW3	140	180	47	25	2.6	15
				les Collecto gust 19, 19		
MW1	4 7	48	13	8.4	0.99	29
MW2	19	69	26	22	2.1	18
MW3	150	170	82	31	4.4	22
				les Collecto uly 20, 199		
MW1	49	100	11	14	2.3	17
MW2	100	51	9.9	7.7	1.2	7.5
MW3	270	450	46	29	3.5	21
				les Collecto une 20, 199		
MW1	42	76	4.7	7.1	1.5	9.8
MW2	69	87	8.1	8.4	1.1	8.9
MM3	210	920	39	49	13	69

 ${\tt TPH-G} = {\tt Total}$ Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

ND = Not Detected.

NA = Not Analyzed.

Results in parts per million (ppm), unless otherwise indicated.

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
(Continued)

Well No.	TPH-D	TPH-G	Benzen	e Toluene	Ethyl- benzene	Total Xylenes
				les Collec May 17, 19		
MW1	26	72	7.7	9.9	ND	11
MW2	33	62	5.9	6.3	1.2	9.0
MW3	70	170	32	22	2.2	18
				oles 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
ким	NA	110	31	15	0.88	7.4
				oles Collec March 21, 1		
WW1	AN	36	4.5	5.7	0.087	7.3
MW2	NA	62	9.3	11	0.35	9.7
MM3	NA	87	30	14	0.69	5.4
				ples Collec bruary 15,		
MW1	NA	120	7.4	6.6	ND	13
MW2	NA	200	12	12	1.7	14
MW3	AИ	230	44	40	ND	31
				ples Collec anuary 14,		
MW1	NA	33	3.9	2.9	0.21	5.3
MW2	AИ	78	11	8.7	0.58	8.0
MW3	NА	160	48	25	1.0	16

NOTES:

 ${\tt TPH-G} = {\tt Total}$ Petroleum Hydrocarbons as Gasoline.

TPH-D = Total Petroleum Hydrocarbons as Diesel.

ND = Not Detected.

NA = Not Analyzed.

Results in parts per million (ppm), unless otherwise indicated.

TABLE 2 SUMMARY OF LABORATORY ANALYTICAL RESULTS (Continued)

Well No.	TPH-D	TPH-G	Benzen	e Toluene	Ethyl- benzene	Total Xylenes
			Samp On Sep	oles Collec Stember 27,	ted 1990	
MW1	AИ	28	3.7	3.5	0.01	6.5
MW2	AИ	59	8.4	12	0.88	9.0
MW3	NА	25	7.2	6.4	0.42	3.4
				les Collec ugust 23, 1		
WMJ	NA	40	5.1	4.9	0.35	6.0
MW2	NA	96	8.1	8.4	1.5	8.6
мw3	NA	220	67	46	27	18
				oles Collec July 20, 19		
MW1	44	МA	5.1	4.2	ИD	9.1
MW2	86	NA	9.1	14	0.94	13
ЕММ	88	NA	25.1	21.1	0.61	14.1
				oles Collec March 19, 1		
MW1	NA	40	3.7	1.1	ND	3.3
MW2	NA	50	7.7	8.7	0.075	5.6
мwз	NA	210	38	28	1.8	12
				oles Collec bruary 20,		
MW1+	AK	7.6	1.6	ND	ND	1.3
MW2+	AN	38	7.3	3.1	0.075	6.8
MW3+	NA	46	20	15	1.8	9.7

 $\mathbf{TPH-G} = \mathbf{Total}$ Petroleum Hydrocarbons as Gasoline. TPH-D = Total Petroleum Hydrocarbons as Diesel.

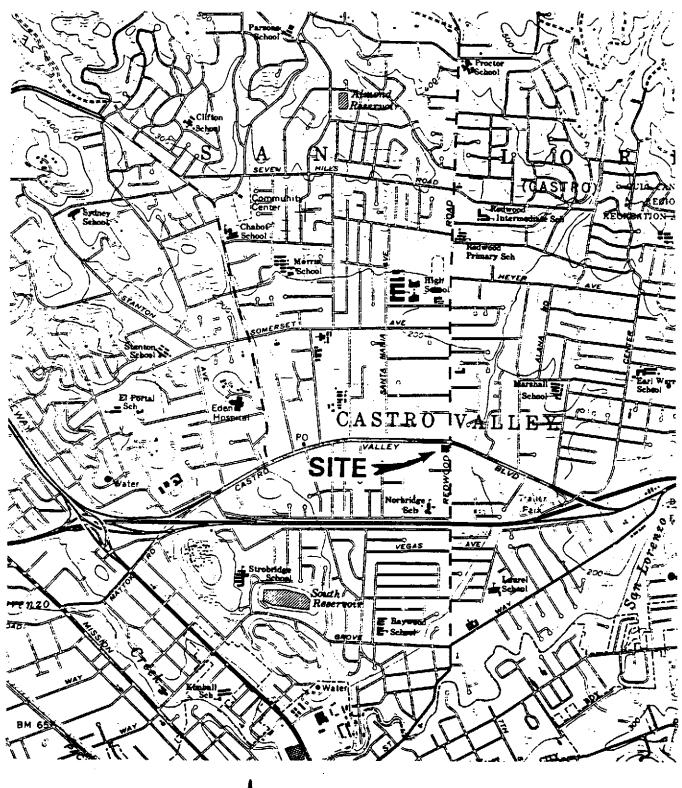
ND = Not Detected.

NA = Not Analyzed.

+ Indicates Organic Lead was not detected.
Results in parts per million (ppm), unless otherwise indicated.

P & D ENVIRONMENTAL

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



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

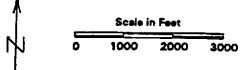


Figure 1 SITE LOCATION MAP XTRA OIL Company 3495 Castro Valley Blvd. Alameda, California

P & D ENVIRONMENTAL

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

Castro Valley Blvd.

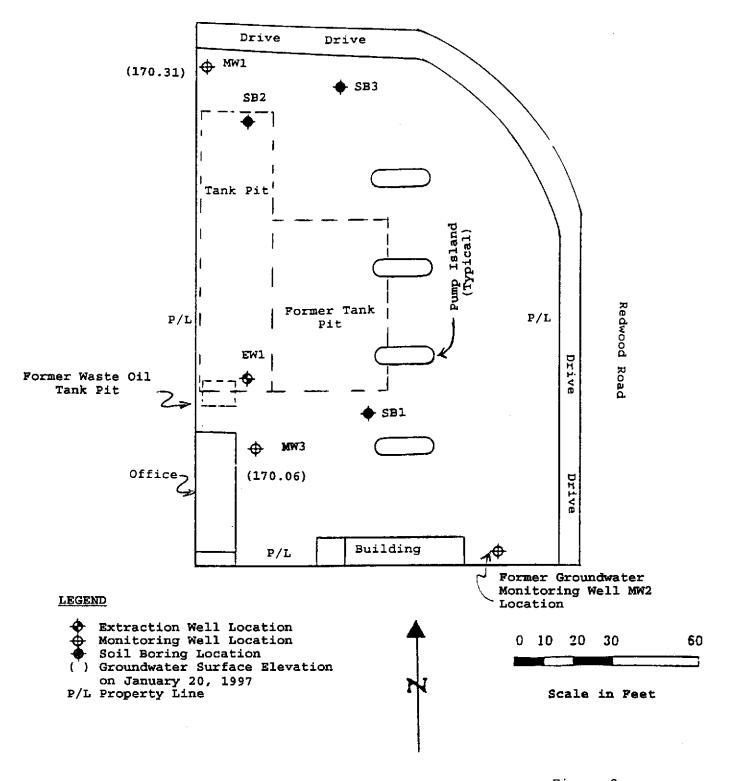


Figure 2 SITE PLAN XTRA OIL Company 3459 Castro Valley Blvd. Castro Valley, CA

Base Map From XTRA OIL Company

P&D ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEET

Site Name X	TRA OIL Company	_Aistro Whiley	Well No	mwl
Job No		' ' '	Date	120197
TOC to Water	(ft.) 7.12		Sheen	yes
Well Depth (ft.) 20.0			t Thickness &
Well Diamete	er <u>4"</u>		Sample Coll	ection Method
Gal./Casing	vol. 8.40	_	Teflon B	riler.
TIME_	GAL. PURGED	_ H <u>q_</u> _	TEMPERATURE_(.F)	ELECTRICAL (Malm)
10:50	4.20	6.65	61.7	7.48 x100
11:00	8.40	6.64	61.8	7.60
11:10	12.60	6.61	62.1	7.68
11:20	16.70	6.62	62.1	7.70
11:30	21.00	6.64	62.2	7.71
11:40	25.20	665	62.3	7.72
11:50	_Sompled	-		<u> </u>
				
<u> </u>	<u> </u>			• •
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·		<u> </u>		
NOTES:				
	irged using	Honda Du	mp & footur	alve.
PURGE10.92	0		4	

P&D ENVIRONMENTAL GROUNDWATER MONITORING/WELL PURGING DATA SHEET

Site Name XTRA OIL COMPRING - Cashi Vall	ey well No. MW3
Job No. OCIU	Date 1/20/67
TOC to Water (ft.) 6.35	Sheen Yes
Well Depth (ft.) 200	Free Product Thickness
Well Diameter	Sample Collection Method
Gal./Casing Vol. Z, X	Teflon Bailer
TIME GAL. PURGED PH	TEMPERATURE (CONDUCTIVITY (WYCM)
12:10 4.40 5,55	61.9 1.39 x 1000
12:20 8.80 5.49	62.1
12:30 13.20 5,25	_62.2
12:40 17.60 5.21	61.1 1.13
12:50 22.00 5.20	61.3
1.00 26.4 5.22	61.4 1.14
1:15 Sampled	
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	· · · · · · · · · · · · · · · · · · ·
NOTES:	
Well pureped using Honda pun	us à footvalve.
PURGE10.92	·

P & D Environmental Client Project ID: #0014; Xtra Oil Co.-Date Sampled: 01/20/97 Castro Valley 4020 Panama Court Date Received: 01/21/97 Oakland, CA 94611 Client Contact: Paul King Date Extracted: 01/21-01/22/97 Client P.O: Date Analyzed: 01/21-01/22/97 Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX* EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID (5030) Ethylben-% Rec. Lab ID Client ID Matrix TPH(g)⁺ **MTBE** Benzene Toluene **Xylenes** zene Surrogate 73023 MW1 W 80,000,a,h 250 7800 8300 1900 8900 103 73024 MW3 W 150,000,a,h 40,000 14,000 2600 12,000 109 Reporting Limit unless W 50 ug/L 5.0 0.5 0.50.5 0.5 otherwise stated; ND means not detected

0.005

0.005

0.005

0.05

1.0 mg/kg

S

above the reporting limit

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.

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

4020 Panama Court		Client Project Castro Valley	1/20/97					
				Date Received: 01/21/97				
		Client Contact:	Paul King	Date Extracted: 01/21/97				
		Client P.O:		Date Analyzed: 01/21/97				
EPA methods mo	Diesel Ra dified 8015, and 3550 or	inge (C10-C23) I 3510; California RV	Extractable Hydrocarbons as VQCB (SF Bay Region) method GO	S Diesel * OFID(3550) or GCFII	D(3510)			
Lab ID	Client ID	Matrix	TPH(d) ⁺		% Recovery Surrogate			
73023	MW1	w	57,000,d,a,h		107			
73024	MW3	w		101				
	•							
Reporting L	Reporting Limit unless other-		50 ug/L					
wise stated; ND means not de- tected above the reporting limit		S	1.0 mg/kg		Aban sarahan s			
* water sample	es are reported in u	g/L, soil and slud	ge 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.

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McCAMPBELL ANALYTICAL INC.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 01/21/97

Matrix: Water

	Concent:	ration	(mg/L)	% Recovery						
Analyte	Sample			Amount			RPD			
	(#72664) 	MS	MSD	Spiked 	MS 	MSD				
TPH (gas)	0.0	107.0	105.6	100.0	107.0	105.6	1.3			
Benzene	0.0	11.1	10.2	10.0	111.0	102.0	8.5			
Toluene	0.0	11.1	10.4	10.0	111.0	104.0	6.5			
Ethyl Benzene	0.0	10.8	10.3	10.0	108.0	103.0	4.7			
Xylenes	0.0	31.4	30.1	30.0 	104.7	100.3	4.2			
TPH (diesel)	0	150	153	150	100	102	2.1			
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 = $(MS - MSD) / (MS + MSD) \times 2 \times 100$

(+)

P & D ENVIRONMENTAL A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916

CHAIN OF CUSTODY RECORD

													<u>, 770 -</u>		
PROJECT NUMBER:		P X		ن> سالت	ompany-list		1. 10	1000		SHIBE	7/	//	7	IVE	
					flandown		NUMBER OF CONTAINERS	AWALYS	17.4. C.	13 MES.		//	//	REMARKS REMARKS	
SAMPLE NUMBER	DATE	TIME	TYPĘ		SAMPLE LOCATI	CON	TAP.	19- tet	//	[g /		
mwi	1/20/97	i	Waler				니		X				16	Normal Turn Around	
mw3	"		1/				4	X	٨			#	//	<i>"</i> " " "	
										+			-	7/30/23	
												-		73024	
		,			CONDITION SPACE ABSENT	PRESERVAT APPROPRIA CONTAINER	E	286	MEV	US D	THE				
RELINQUISHED BY (SIGNATURE) DATE TIME		TIME 10:35	RECEIVED BY:	(SIGNATURE)		TOTAL NO. OF SAMPLES 2 LABORATORY: TOTAL NO. OF SAMPLES 2 LABORATORY: TOTAL NO. OF CONTAINERS 8 PICCAM Pb-11 ATXALY TX (THIS SHEMENT)			LABORATORY: PIcCampbell Analytical, In						
RELINQUISHED BY: (SIGNATURE)			DATE	TIME	RECEIVED BY: (SIGNATURE)			LA	LABORATORY CONTACT:					LABORATORY PHONE NUMBER: (510) 798-1620	
			TIME /1:10	RECEIVED FOR LABORATORY BY: (SIGNATURE)			SAMPLE ANALYSIS REQUEST SHEET ATTACHED: ()YES (X)NO								
,			,		REMARKS:	OA's Fr	CHANC	لمه	•	۱۰۰	-h	H	CL		