

**TRC Alton
Geoscience**

5052 Commercial Circle
Concord, California 94520
Telephone 925-688-1200
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ENVIRONMENTAL
PROTECTION

January 15, 2000

00 JAN 19 PM 3:48

Mr. Barney Chan
Alameda County Health Services
1131 Harbor Bay Parkway
Alameda, California 94502-6700

~~3858~~
1683

Alton Project No. 41-0123

1-24-00
Still waiting for installation of replacement
well for mw-4. + boring inside new bld.

RE: FORMER MOBIL STATION 99-105
6301 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

Dear Mr. Chan:

Please find enclosed the Fourth Quarter 1999 Progress Report for the subject location prepared for Mobil Business Resources Corporation by Alton Geoscience. The contents of this report include:

Quarterly Progress Report Summary Sheet

- Exhibit 1: Sampling Schedule
- Exhibit 2: Summary of Groundwater Levels and Chemical Analysis
- Exhibit 3: Figures 1 through 3 (Vicinity Map, Groundwater Elevations, Dissolved-Phase Hydrocarbon Concentrations)
- Exhibit 4: Benzene vs. Groundwater Elevation Graphs
- Exhibit 5: Well Purging and Groundwater Sampling Protocol
- Exhibit 6: Monitoring Well Sampling Forms
- Exhibit 7: Analytical Laboratory Data Sheets
- Exhibit 8: Waste Disposal Manifest

If you have any questions regarding this report, please call Cherine Foutch, ExxonMobil Remediation Services Engineer, at (925) 625-1173, or Tom Seeliger, Alton Geoscience Associate, at (925) 688-2474.

Sincerely,



Sarah Larese
Senior Staff Scientist

cc: Ms. Cherine Foutch, ExxonMobil Remediation Services
Mr. Chuck Headlee, Regional Water Quality Control Board, San Francisco Bay Region
Ms. Connie Lam, Property Owner

TRC / ALTON GEOSCIENCE

Quarterly Progress Report Summary Sheet
Fourth Quarter 1999

Former Mobil Station 99-105
6301 San Pablo Avenue
Oakland, California

LOP: Alameda County Health Services

Number of water zones:	1	This Page	1
FIELD ACTIVITY:		Date Sampled:	8-Dec-99
Number of groundwater wells on-site:	2 *	Groundwater wells monitored:	2
Number of groundwater wells off-site:	0	Groundwater wells sampled:	2
Phase of Investigation: Vadose Zone:	N/A	Groundwater wells with free product:	0
		Groundwater phase:	Monitor & Sample
SITE HYDROGEOLOGY:			
Approximate depth to ground water below ground surface:			10.31 ft
Approximate elevation of potentiometric surface above Mean Sea Level:			22.50 ft
Average Increase/Decrease in ground water elevations since last sampling episode:		Decrease:	3.57 ft
Approximate flow direction and hydraulic gradient:			NA
GROUND WATER CONTAMINATION (BENZENE MCL=1.0 ppb):			
Wells containing free product:	0	Range in Thickness of Free Product:	NA
Number of wells with concentrations below MCL:	0	Volume of Free Product Recovered This Period:	0 gals
Number of wells with concentrations at or above MCL:	2	Volume of Free Product Recovered To Date:	2.65 gals
Nature of contamination:	Gasoline	Range in Concentrations:	Benzene: 1.2 to 94 ppb TPH-G: ND<50 to 4,800 ppb
ADDITIONAL INFORMATION:			
* MW-1 and MW-4 were destroyed during construction activities on the site in April 1999; MW-2 and MW-3 remain. Purged water was transferred to McKittrick Waste Water Treatment Facility.			

Prepared by: *Sarah Lares* Sarah Lares Senior Staff Scientist

Approved by: *Tracy L. Walker* Tracy L. Walker, RG Associate
California RG #6808

Alton Project No: 41-0123

Submission Date: 1/15/00

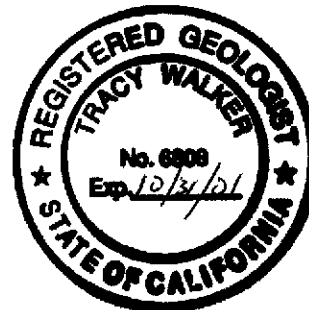


EXHIBIT 1
SAMPLING SCHEDULE

MONITORING WELL SAMPLING SCHEDULE 1999
Former Mobil Station 99-105

destroyed

destroyed

Well Number	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
MW-1	X			
MW-2	X		X	X
MW-3	X		X	X
MW-4	X			

NOTES: X = well scheduled for sampling

EXHIBIT 2

SUMMARY OF GROUNDWATER LEVELS AND CHEMICAL ANALYSIS

Summary of Groundwater Levels and Chemical Analysis

Former Mobil Station 99-105

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Product Thickness (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	Lead (ppb)	Dissolved Oxygen (mg/L)
TW-1	01/04/96	—	6.00	—	0.00	ND	700	ND	ND	ND	ND	—	—	—	—	—
WW-1	01/04/96	—	3.00	—	0.00	ND	—	ND	ND	ND	ND	—	—	ND	—	—
MW-1	03/14/96	32.79	4.50	28.29	0.00	610	450	0.75	0.54	1.5	59	—	—	—	ND	—
MW-1	05/21/96	32.79	5.64	27.15	0.00	ND	ND	ND	ND	ND	ND	—	—	—	—	—
MW-1	08/13/96	32.79	9.76	23.03	0.00	ND	ND	ND	ND	ND	ND	—	—	—	—	—
MW-1	11/08/96	32.79	10.24	22.55	0.00	ND	ND	ND	0.92	ND	2.1	ND	—	—	—	—
MW-1	01/31/97	32.79	3.83	28.96	0.00	ND	ND	ND	0.85	ND	ND	2.6	ND	—	—	—
MW-1	04/22/97	32.79	9.14	23.65	0.00	ND	ND	ND	ND	ND	ND	ND	—	—	—	—
MW-1†	07/29/97	32.79	10.18	22.61	0.00	ND	60****	0.84	0.95	ND	1.6	36	—	—	—	—
MW-1†	10/09/97	32.79	10.46	22.33	0.00	ND	56****	ND	ND	ND	ND	ND	—	—	—	—
MW-1†	01/23/98	32.79	3.95	28.84	0.00	ND	33	ND	ND	ND	ND	ND	—	—	—	—
MW-1	04/22/98	32.79	5.33	27.46	0.00	ND	ND	ND	ND	ND	ND	ND	—	—	—	1.25
MW-1	07/21/98	32.79	9.17	23.62	0.00	ND	—	ND	ND	ND	ND	ND	—	—	—	4.34
MW-1	10/20/98	32.79	10.41	22.38	0.00	ND	—	ND	ND	ND	ND	ND	—	—	—	2.49
MW-1	01/27/99	32.79	5.51	27.28	0.00	ND	—	ND	ND	ND	ND	ND	—	—	—	5.25
MW-1	Destroyed during construction activities in April 1999															
MW-2	03/14/96	32.80	4.51	28.29	0.00	560	250	2.0	0.96	4.3	11	—	—	—	ND	—
MW-2	05/21/96	32.80	5.65	27.15	0.00	730	560	5.1	1.4	6.7	5.9	—	—	—	—	—
MW-2	08/13/96	32.80	10.14	22.66	0.00	490	380*	25	3.5	7.2	13	—	—	—	—	—
MW-2	11/08/96	32.80	10.70	22.10	0.00	520	160***	80	2.7	14	66	6.1	—	—	—	—
MW-2	01/31/97	32.80	3.84	28.96	0.00	74	130*	ND	ND	ND	ND	ND	—	—	—	—
MW-2	04/22/97	32.80	9.61	23.19	0.00	260	430	2.7	ND	2.5	ND	ND	—	—	—	—
MW-2†	07/29/97	32.80	10.53	22.27	0.00	320	150*****	28	1.2	10	ND	ND	—	—	—	—
MW-2†	10/09/97	32.80	10.87	21.93	0.00	460	160*	43	2.8	2.0	2.6	2.6	—	—	—	—
MW-2†	01/23/98	32.80	3.75	29.05	0.00	ND	54	ND	ND	ND	ND	ND	—	—	—	—
MW-2	04/22/98	32.80	5.36	27.44	0.00	180	540	1.2	0.3	0.4	ND	ND	—	—	—	0.85
MW-2	07/21/98	32.80	9.55	23.25	0.00	80	—	8.9	2.1	0.6	2.5	ND	—	—	—	1.04
MW-2	10/20/98	32.80	10.75	22.05	0.00	50	—	0.8	0.7	ND	0.8	ND	—	—	—	1.12
MW-2	01/27/99	32.80	5.53	27.27	0.00	ND	—	0.6	ND	ND	ND	ND	—	—	—	0.99
MW-2	07/27/99	32.80	6.20	26.80	0.00	ND	—	ND	0.6	ND	ND	ND	—	—	—	0.30
MW-2	12/08/99	32.80	9.98	22.82	0.00	ND	—	1.2	0.43	ND	ND	ND	—	—	—	1.83
MW-3	03/14/96	32.80	9.55	23.25	0.00	4,200	1,200	220	30	140	520	—	—	ND	ND	—
MW-3	05/21/96	32.80	10.16	22.64	0.00	8,500	2,800	710	110	440	1,700	—	—	—	—	—
MW-3	08/13/96	32.80	11.18	21.62	0.00	5,000	2,300**	430	ND	200	360	—	—	—	—	—
MW-3	11/08/96	32.80	11.51	21.29	0.00	8,400	2,900*	890	82	790	1,700	73	ND	—	—	—
MW-3	01/31/97	32.80	7.90	24.90	0.00	16,000	7,500*	660	85	960	1,800	ND	—	—	—	—
MW-3	04/22/97	32.80	10.64	22.16	0.00	8,000	2,700	340	33	400	490	200	ND	—	—	—
MW-3†	07/29/97	32.80	11.36	21.44	0.00	9,800	2,300*	330	ND	530	530	ND	—	—	—	—
MW-3†	10/09/97	32.80	11.52	21.28	0.00	7,300	2,600*	300	ND	430	460	270	ND	—	—	—
MW-3†	01/23/98	32.80	7.50	25.30	0.00	6,100	2,300	190	23	330	320	ND	—	—	—	—
MW-3	04/22/98	32.80	6.81	25.99	0.00	4,900	2,600	140	12	250	230	ND	ND	—	—	0.45
MW-3	07/21/98	32.80	10.65	22.15	0.00	7,400	—	250	16	400	370	74	ND	—	—	0.78
MW-3	10/20/98	32.80	11.57	21.23	0.00	6,700	—	200	18	350	350	ND	ND	—	—	0.69
MW-3	01/27/99	32.80	9.11	23.69	0.00	3,100	—	74	4	94	39	13	—	—	—	1.20
MW-3	07/27/99	32.80	7.27	25.53	0.00	8,900	—	170	21	360	440	ND	—	—	—	0.33

Summary of Groundwater Levels and Chemical Analysis

Former Mobil Station 99-105

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Product Thickness (feet)	TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	Lead (ppb)	Dissolved Oxygen (mg/L)
MW-3	12/08/99	32.80	10.63	22.17	0.00	4,800	—	94	13	170	210	ND	—	—	—	1.12
MW-4	03/14/96	31.50	4.92	26.58	0.00	12,000	3,500	2,200	140	880	2,000	—	—	—	ND	—
MW-4	05/21/96	31.50	8.60	22.90	0.00	11,000	4,200	1,700	ND	930	470	—	—	—	—	—
MW-4	08/13/96	31.50	10.02	21.50	0.02	—	—	—	—	—	—	—	—	—	—	—
MW-4	11/08/96	31.50	10.28	21.33	0.15	—	—	—	—	—	—	—	—	—	—	—
MW-4	01/31/97	31.50	7.88	23.62	0.00	23,000	8,200*	980	68	1,100	1,400	ND	—	—	—	—
MW-4	04/22/97	31.50	7.40	24.10	0.00	8,800	4,500	950	ND	610	130	ND	—	—	—	—
MW-4	07/29/97	31.50	9.85	21.74	0.12	—	—	—	—	—	—	—	—	—	—	—
MW-4	10/09/97	31.50	10.35	21.38	0.30	—	—	—	—	—	—	—	—	—	—	—
MW-4	01/23/98	31.50	4.68	27.51	0.92	—	—	—	—	—	—	—	—	—	—	—
MW-4	04/22/98	31.50	6.39	25.22	0.14	—	—	—	—	—	—	—	—	—	—	—
MW-4	07/21/98	31.50	7.10	24.55	0.20	—	—	—	—	—	—	—	—	—	—	—
MW-4	10/20/98	31.50	9.03	22.60	0.17	—	—	—	—	—	—	—	—	—	—	—
MW-4	01/27/99	31.50	5.37	26.18	0.07	—	—	—	—	—	—	—	—	—	—	—
MW-4	Destroyed during construction activities in April 1999															
AB-1	03/05/98	—	—	—	—	1,600	—	31	5.3	79	130	ND	—	—	—	—
AB-2	03/05/98	—	—	—	—	ND	—	ND	2.9	0.9	5.7	ND	—	—	—	—
AB-3	03/05/98	—	—	—	—	6,800	—	680	100	1,500	2,300	230	—	—	—	—
AB-4	03/05/98	—	—	—	—	8,500	—	240	ND	260	720	ND	—	—	—	—
AB-6	03/05/98	—	—	—	—	12,000	—	350	ND	310	100	ND	—	—	—	—
AB-9	03/05/98	—	—	—	—	1,000	—	57	12	44	93	ND	—	—	—	—
AB-10	03/05/98	—	—	—	—	200	—	3.0	1.2	3.2	2.8	ND	—	—	—	—
AB-11	03/05/98	—	—	—	—	ND	—	ND	ND	ND	ND	ND	—	—	—	—
AB-12	03/05/98	—	—	—	—	8,800	—	660	50	630	940	37	—	—	—	—
AB-13	03/05/98	—	—	—	—	210	—	11	0.8	10	15	ND	—	—	—	—

NOTES:

ppb = parts per billion
 mg/L = milligrams per liter
 TPH-G = total petroleum hydrocarbons as gasoline
 TPH-D = total petroleum hydrocarbons as diesel
 TOG = total oil and grease
 MTBE = methyl-tert butyl ether

— = not measured/not analyzed
 ND = not detected at or above method detection limit
 ** = diesel and unidentified hydrocarbons <C15>C25
 *** = diesel and unidentified hydrocarbons <C20
 **** = unidentified hydrocarbons >C18
 ***** = diesel and unidentified hydrocarbons >C20

† = well sampled using no-purge method



1 MILE 3/4 1/2 1/4 0 1 MILE

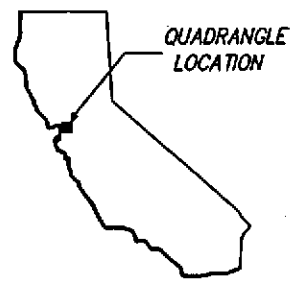


SCALE 1 : 24,000



SOURCE:

United States Geological Survey
7.5 Minute Topographic Maps:
Oakland West Quadrangle



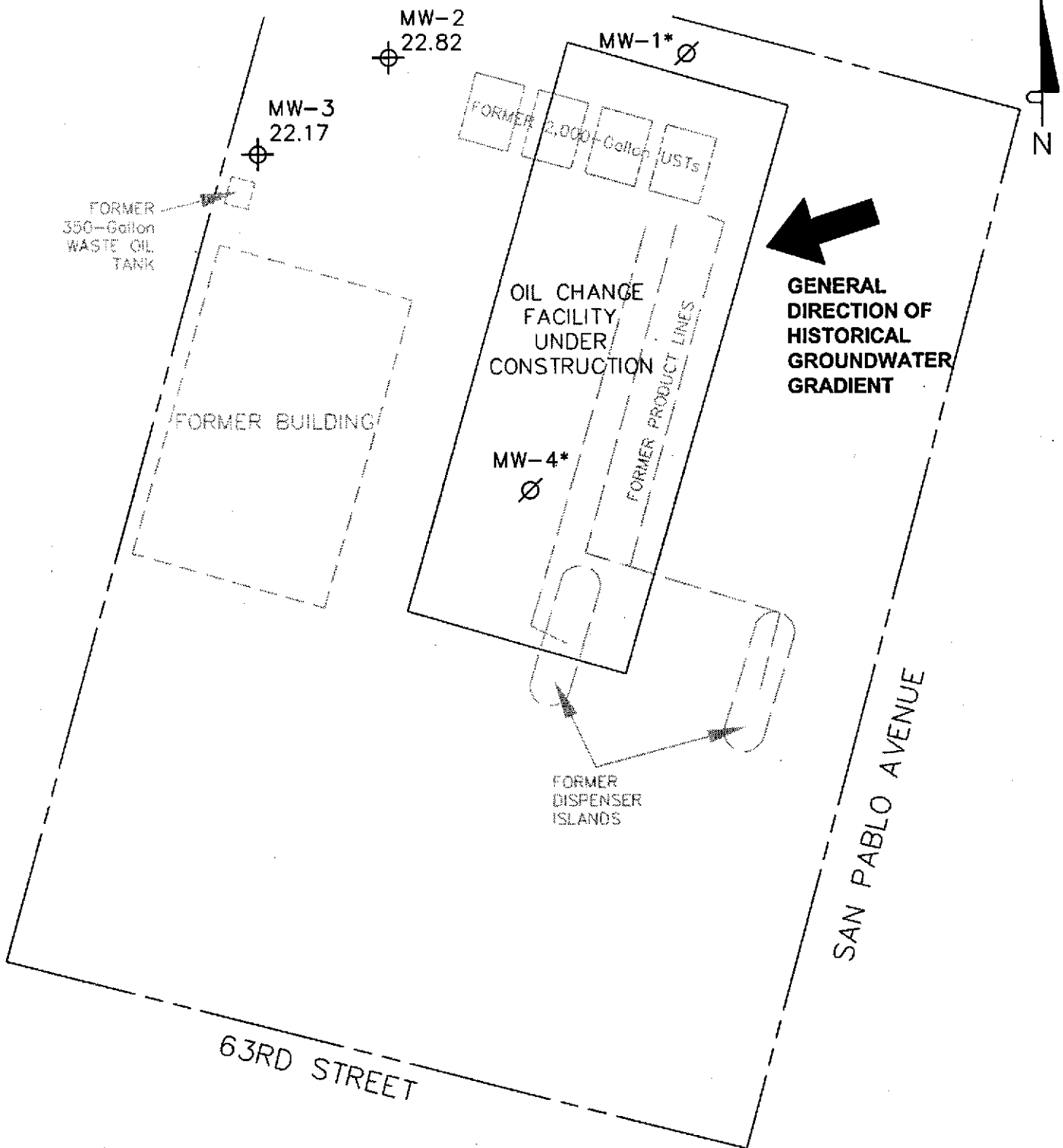
QUADRANGLE
LOCATION

VICINITY MAP

Former Mobil Station 99-105
6301 San Pablo Avenue
Oakland, California

FIGURE 1





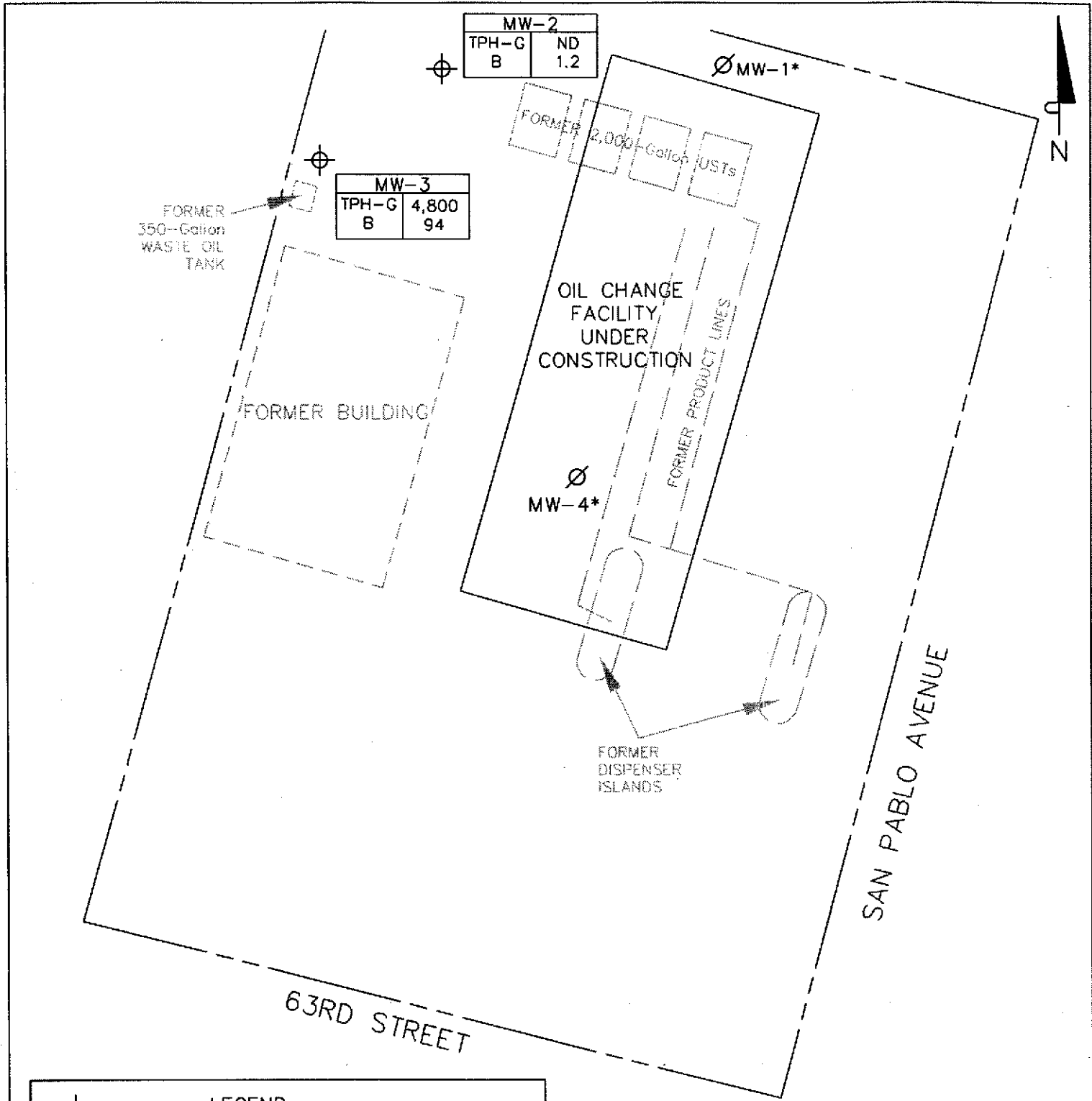
LEGEND	
	Monitoring Well Showing Groundwater Elevation (Feet Relative to Mean Sea Level - NGVD-1929)
	Destroyed Well

NOTES: Results are based on fluid-level measurements taken on December 8, 1999. * = well destroyed during construction activities in April 1999.

**GROUNDWATER ELEVATIONS
December 8, 1999**

Former Mobil Station 99-105
6301 San Pablo Avenue
Oakland, California

FIGURE 2

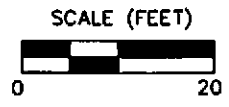


⊕	LEGEND				
<table border="1"> <tr> <td colspan="2" style="text-align: center;">MW-2</td> </tr> <tr> <td style="text-align: center;">TPH-G</td> <td style="text-align: center;">B</td> </tr> </table>	MW-2		TPH-G	B	Monitoring Well Showing Dissolved-Phase Hydrocarbon Concentrations (ppb)
MW-2					
TPH-G	B				

NOTES:
 Hydrocarbon concentrations are based on results of laboratory samples collected December 8, 1999. TPH-G = total petroleum hydrocarbons as gasoline; B = benzene; ppb = parts per billion; ND = not detected at or above method detection limit. * = well destroyed during construction activities in April 1999.

**DISSOLVED-PHASE
 HYDROCARBON CONCENTRATIONS
 December 8, 1999**

Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California



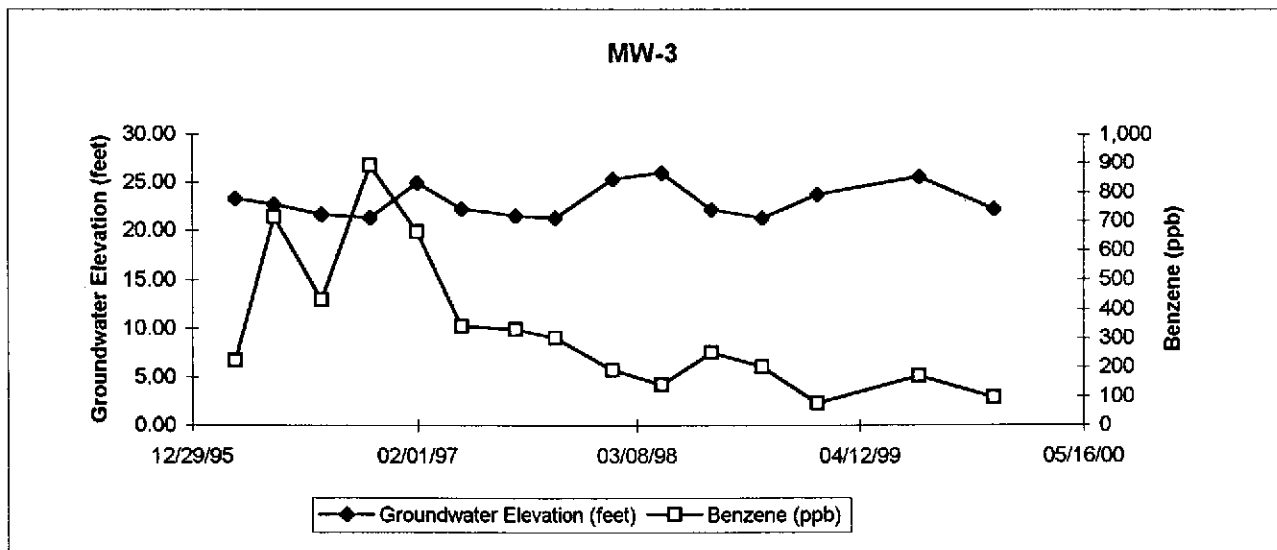
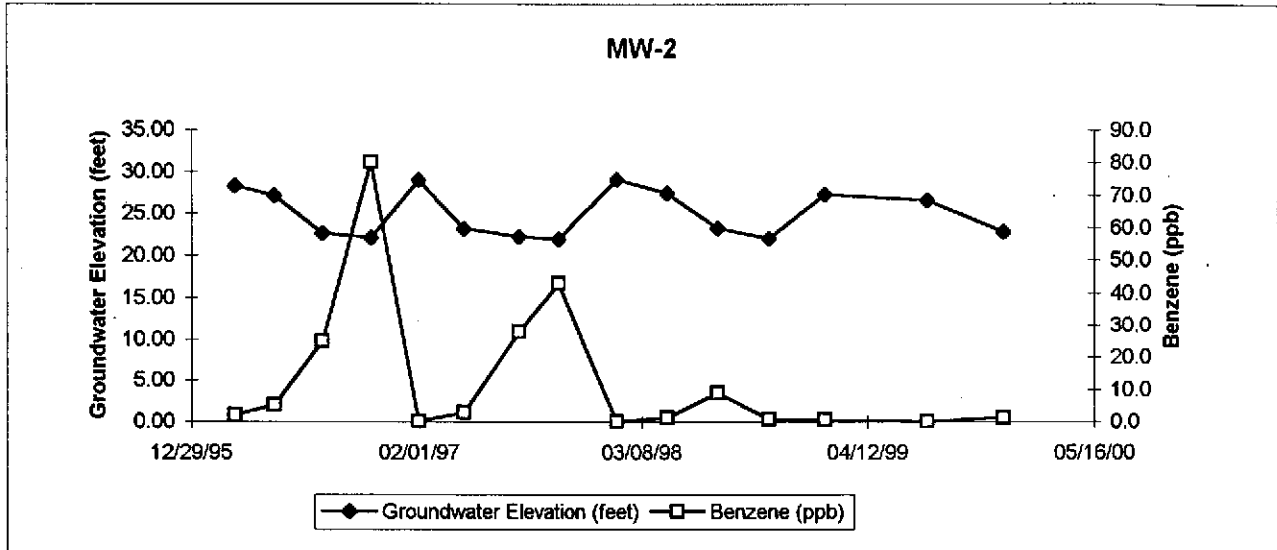
Source: ALISTO Engineering

FIGURE 3

EXHIBIT 4

BENZENE VS. GROUNDWATER ELEVATION GRAPHS

Benzene vs. Groundwater Elevation Graphs



NOTE: ND values are plotted as zero.

EXHIBIT 5

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

WELL PURGING AND GROUNDWATER SAMPLING PROTOCOL

FLUID-LEVEL MONITORING

Fluid-levels are monitored in the wells using an electronic interface probe with conductance sensors. The presence of liquid-phase hydrocarbons is verified using a hydrocarbon-reactive paste. The depth to liquid-phase hydrocarbons and water is measured to the nearest 0.01 foot relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city bench mark.

GROUNDWATER SAMPLING

Currently, 'pre-purge' and 'non-purge' methods of sampling both comply with regulatory standards.

NON-PURGE METHOD:

Alton Geoscience utilizes the 'non-purge' method of sampling for all qualifying groundwater monitoring wells. Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

The following criteria necessary for a well to qualify for 'non-purge' sampling are taken from a letter issued by San Francisco Bay Regional Water Quality Control Board on January 31, 1997:

1. The non-purging approach shall be used only for monitoring wells where groundwater has been impacted by petroleum hydrocarbons, BTEX, and MTBE.
2. Non-purge sampling shall be utilized for unconfined aquifers only.
3. The monitoring well shall be properly permitted, constructed (in this case, screened across the water table), and developed.
4. The well is presently in use for groundwater or soil vapor extraction.
5. The well does not contain free product.
6. For new wells or wells brought into monitoring for the first time, the first round of groundwater sampling performed at a site shall be with both non-purged and purged samples. The purging and sampling method used shall be documented. This shall include the rate of purge and sampling

details. For these wells we require measurements of dissolved oxygen, specific conductance, pH, and temperature whether purged or not purged. Also, if biodegradation is being tracked at the well, our requirements do not preclude the measurement of other parameters.

7. Existing wells which have already been routinely purged in previous sampling events immediate to being switched to a non-purging mode do not require an initial duplicate non-purged and purged sample.
8. Monitoring data frequency shall be as required by the appropriate regulatory oversight agency.
9. Should site closure be requested where the non-purged approach has been used, the final confirmation sampling event shall include both non-purged and purged samples from each well or as agreed upon with the appropriate regulatory oversight agency.

PURGE METHOD:

Groundwater monitoring wells that do not qualify for the 'non-purge' method are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no liquid-phase hydrocarbons are purged of groundwater prior to sampling so that fluids sampled are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when these parameters vary less than 10% from the previous readings, or when four casing volumes of fluid have been removed. Samples are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purged water is either pumped directly into a licensed vacuum truck or temporarily stored in labeled drums prior to transport to an appropriate treatment or recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

Groundwater samples are collected by lowering a 1.5-inch-diameter, bottom-fill, disposable polyethylene bailer just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to 1-liter and 40-milliliter glass containers. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials. Samples remain chilled at approximately 4°C prior to analysis by a state-certified laboratory.

EXHIBIT 7

ANALYTICAL LABORATORY DATA SHEETS



LLI Sample No. WW 3288736
Collected: 12/08/99 at 15:35 by JH

Account No: 09728
Mobil Business Resources Corp.
2063 Main Street
Suite 501
Oakley CA 94561

P.O. 4500100232-0509
Re1. 00010

Submitted: 12/10/99 Reported: 12/23/99
Discard: 01/23/00

MW-2 Water Sample
LOC# 99-105 WBS# 56
Mobil: 6301 San Pablo Avenue Oakland, CA

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
8209	BTEX, MTBE (8020)			
0776	Benzene	1.2	0.30	ug/l
0777	Toluene	0.43	0.30	ug/l
0778	Ethylbenzene	N.D.	0.30	ug/l
0779	Total Xylenes	N.D.	0.60	ug/l
0780	Methyl tert-Butyl Ether	N.D.	10.	ug/l
8268	8015 Mod. for Gasoline			
5554	TPH-GRO (CA LUFT)	N.D.	50.	ug/l

QUALITY CONTROL REPORT

SAMPLE RPT	LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS	
											LOW	HIGH
8209 BTEX, MTBE (8020)			Batch: 99347A16									
0776	0.30	Benzene ug/l	N.D.		106	104	1	95	96	1	79	119
0777	0.30	Toluene ug/l	N.D.		105	105	1	95	96	1	81	124
0778	0.30	Ethylbenzene ug/l	N.D.		107	106	1	95	96	1	80	118
0779	0.60	Total Xylenes ug/l	N.D.		109	108	1	97	98	1	81	118
0780	10.	Methyl tert-Butyl Ether ug/l	N.D.		100	102	1	95	95	0	77	123
8268 8015 Mod. for Gasoline			Batch: 99347A16									
5554	50.	TPH-GRO (CA LUFT) ug/l	N.D.		106	106	0	90	94	5	75	121

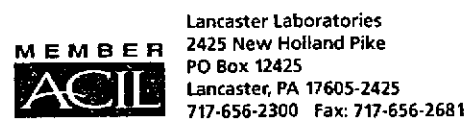
#=Laboratory Method Detection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

1 COPY TO TRC/Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Jedidiah E. Turzi at (717) 656-2300
04:36:54 D 0001 2 134751 695052
310 0.00 00004500 ASR000

Kate Rhodes for

Respectfully Submitted
Thomas C. Lehman, Ph.D.
Group Leader, Petrol. Analysis



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See reverse side for explanation of symbols and abbreviations.



Lancaster Laboratories

Where quality is a science.

LLI Sample No. WW 3288736
Collected: 12/08/99 at 15:35 by JH

Account No: 09728
Mobil Business Resources Corp.
2063 Main Street
Suite 501
Oakley CA 94561

P.O. 4500100232-0509
Rel. 00010

Submitted: 12/10/99 Reported: 12/23/99
Discard: 01/23/00

MW-2 Water Sample
LOC# 99-105 WBS# 56
Mobil: 6301 San Pablo Avenue Oakland, CA

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
SURROGATE SUMMARY											
			SURROGATE				SURROGATE LIMITS				
		TRIAL ID	SURROGATE	RECOVERY %			LOW			HIGH	
	8209 BTEX, MTBE (8020)		TFT-P	94			69			132	
	8268 8015 Mod. for Gasoline		TFT-F	85			58			142	

LABORATORY CHRONICLE					
CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	12/14/99 0525	Darvin L. Martin
8268	8015 Mod. for Gasoline	CA LUFT Gasoline Method	1	12/14/99 0525	Darvin L. Martin

State of California Lab Certification No. 2116

#=Laboratory Method Detection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Questions? Contact your Client Services Representative
Jedidiah E. Turzi at (717) 656-2300

Handwritten signature: Kale Rhodes for

Respectfully Submitted
Thomas C. Lehman, Ph.D.
Group Leader, Petrol. Analysis



Lancaster Laboratories
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

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See reverse side for explanation of symbols and abbreviations.



LLI Sample No. WW 3288737
Collected: 12/08/99 at 15:45 by JH

Account No: 09728
Mobil Business Resources Corp.
2063 Main Street
Suite 501
Oakley CA 94561

P.O. 4500100232-0509
Rel. 00010

Submitted: 12/10/99 Reported: 12/23/99
Discard: 01/23/00

MW-3 Water Sample
LOC# 99-105 WBS# 56
Mobil: 6301 San Pablo Avenue Oakland, CA

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	REPORTING LIMIT	
8209	BTEX, MTBE (8020)			
0776	Benzene	94.	0.30	ug/l
0777	Toluene	13.	0.30	ug/l
0778	Ethylbenzene	170.	0.30	ug/l
0779	Total Xylenes	210.	0.60	ug/l
0780	Methyl tert-Butyl Ether	N.D.	10.	ug/l
Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.				
8268	8015 Mod. for Gasoline			
5554	TPH-GRO (CA LUFT)	4,800.	100.	ug/l
Due to the nature of the sample matrix, the surrogate standard recovery is above the range of specifications.				

QUALITY CONTROL REPORT

SAMPLE RPT	LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS	
											LOW	HIGH
8209 BTEX, MTBE (8020)			Batch: 99347A16									
0776	0.30	Benzene ug/l	N.D.		106	104	1	95	96	1	79	119
0777	0.30	Toluene ug/l	N.D.		105	105	1	95	96	1	81	124
0778	0.30	Ethylbenzene ug/l	N.D.		107	106	1	95	96	1	80	118
0779	0.60	Total Xylenes ug/l	N.D.		109	108	1	97	98	1	81	118
0780	10.	Methyl tert-Butyl Ether ug/l	N.D.		100	102	1	95	95	0	77	123
8268 8015 Mod. for Gasoline			Batch: 99347A16									

#=Laboratory Method Detection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

1 COPY TO TRC/Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Jedidiah E. Turzi at (717) 656-2300
04:37:16 D 0001 2 134751 695052
310 0.00 00004500 ASR000

Kate Rhodes for

Respectfully Submitted
Thomas C. Lehman, Ph.D.
Group Leader, Petrol. Analysis



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See reverse side for explanation of symbols and abbreviations.



LLI Sample No. WW 3288737
 Collected: 12/08/99 at 15:45 by JH

Account No: 09728
 Mobil Business Resources Corp.
 2063 Main Street
 Suite 501
 Oakley CA 94561

P.O. 4500100232-0509
 Ref. 00010

Submitted: 12/10/99 Reported: 12/23/99
 Discard: 01/23/00

MW-3 Water Sample
 LOC# 99-105 WBS# 56
 Mobil: 6301 San Pablo Avenue Oakland, CA

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
5554	TPH-GRO (CA LUFT)										
100.	ug/l	N.D.		106	106	0	90	94	5	75	121

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
8209 BTEX, MTBE (8020)		TFT-P	161	69	132
8268 8015 Mod. for Gasoline		TFT-F	149	58	142

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	12/14/99 0553	Michael C. Wehn
8268	8015 Mod. for Gasoline	CA LUFT Gasoline Method	1	12/14/99 2346	Darvin L. Martin

State of California Lab Certification No. 2116

#=Laboratory Method Detection Limit exceeded target detection limit
 N.D.=Not detected at or above the Reporting Limit

Questions? Contact your Client Services Representative
 Jedidiah E. Turzi at (717) 656-2300

Kate Rhodes for
 Respectfully Submitted
 Thomas C. Lehman, Ph.D.
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 Lancaster, PA 17605-2425
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EXHIBIT 6

MONITORING WELL SAMPLING FORMS

GROUND WATER SAMPLING FIELD NOTES

Site: 99-105 Project No.: 41-0123-60 Sampled By: Jeff H. Date: 12/18/99

Well No. MW-2 Purge Method: Hand bail
 Total Depth (feet): 17.48 Depth to Product (feet): _____
 Depth to Water (feet): 7.78 Product Recovered (gallons): _____
 Water Column (feet): 9.75 Casing Diameter (Inches): 4
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): 6.37

Well No. MW-3 Purge Method: Hand bail
 Total Depth (feet): 20.08 Depth to Product (feet): _____
 Depth to Water (feet): 10.63 Product Recovered (gallons): _____
 Water Column (feet): 9.45 Casing Diameter (Inches): 4
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): 6.33

13:18

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
13:00				0.42	63.2	7.35
				0.38	60.5	7.14
	14:30			0.37	61.3	7.08
Total Purged			12 gal	Time Sampled		15:35

Comments: Slow recharge, bailer hitting bottom
 Turbidity= Cloudy ft. brown

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
14:35				0.95	57.8	6.26
				0.93	56.9	6.22
	15:10			0.88	57.5	6.47
Total Purged			15 gal	Time Sampled		15:45

Comments: Slow recharge, bailer hit bottom.
 Turbidity= Clear, sheen on surface, very strong H₂S odor.

Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
Total Purged				Time Sampled		

Comments: _____
 Turbidity= _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
Total Purged				Time Sampled		

Comments: _____
 Turbidity= _____

Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Well No. _____ Purge Method: _____
 Total Depth (feet) _____ Depth to Product (feet): _____
 Depth to Water (feet): _____ Product Recovered (gallons): _____
 Water Column (feet): _____ Casing Diameter (Inches): _____
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
Total Purged				Time Sampled		

Comments: _____
 Turbidity= _____

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temper-ature (F, C)	pH
Total Purged				Time Sampled		

Comments: _____
 Turbidity= _____

EXHIBIT 8

WASTE DISPOSAL MANIFEST

Monitoring Well Purge Water Transport Form

This must be for other sites in addn to this one!

Generator Information Profile #199-057-PS

Name: Mobil Oil Corporation
 Address: 3700 West 190th Street, TPT-2
 City, State, Zip: Torrance, CA 90509-2929 Phone: (310) 212-1877
 Description of Water: Monitoring well purge water
 The generator certifies that this water as described is non-hazardous. Kevin Dolan-Shayne Paszek
 for Mobil Oil Shayne Paszek 1/4/00
 (Date)

Site Information

	Date Generated	Site Number	Amount Generated	Sampler's Initials		Date Generated	Site Number	Amount Generated	Sampler's Initials
1	12/7/99	04-EYA	230	JH	16				
2	12/8/99	99-105	40	JH	17				
3	12/10/99	04-FGN	130	JH	18				
4	12/11/99	04-394		SP	19				
5	12/14/99	99-HLH	400	JH	20				
6	12/20/99	10-KSE	60	JH/SP	21				
7	12/21/99	04-VNH	90	JH	22				
8					23				
9					24				
10					25				
11					26				
12					27				
13					28				
14					29				
15					30				
Total:								950	

Transporter Information

Name: Clearwater Environmental Management
 Address: P.O. Box 7420
 City, State, Zip: Fremont, CA 94555 Phone: (800) 499-3676
 Truck ID No.: _____
Juan Bermudez Juan Bermudez 01-09-00
 (Typed or printed full name & signature) (Date)

Receiving Facility

Name: McKittrick Waste Treatment Site
 Address: 56533 Highway 58 West
 City, State, Zip: McKittrick, CA 93251 Phone: (805) 762-7607

Approval No.: 199-057-PS

 (Typed or printed full name & signature) (Date)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

2. Page 1 of 1

3. Document Number

NH- No 43801

4. Generator's Name and Mailing Address

Mobil Oil Corporation
3700 West 190th Street, TPT-2
Torrance, CA, 90509-2929
Generator's Phone (310) 212-1877

PROFILE # 199-057-PS

5. Transporter Company Name

CLEARWATER ENVIRONMENTAL

6. US EPA ID Number

CAR 000007013

7. Transporter Phone

(510) 476-1740

8. Designated Facility Name and Site Address

Mc Kittrick Waste Treatment Site
56533 Hwy 58 West
Mc Kittrick, CA, 93251

9. US EPA ID Number

CAD 980636831

10. Facility's Phone

(805) 767-7607

11. Waste Shipping Name and Description

a. (MONITORING WELL PURGE WATER),
NON HAZARDOUS WASTE LIQUID

12. Containers
No. Type

001 TT

13. Total
Quantity

950

14. Unit
Wt/Vol

G

15. Special Handling Instructions and Additional Information

WEAR PPE
EMERGENCY CONTACT: (510) 998-8511
Attn: Kitik Hayward
ERG #

Handling Codes for Wastes Listed Above

11a.

11b.

BOX # 21629

Printed/Typed Name

Shayne R. Paszek

Signature

Shayne R. Paszek

Month Day Year
01 04 00

Printed/Typed Name

Ivan Germany

Signature

Ivan Germany

Month Day Year
01 04 00

18. Discrepancy Indication Space

PH 8 Tons

Printed/Typed Name

Debbie Trout

Signature

Debbie Trout

Month Day Year
11 10 00