

99 OCT 20 AM 9:06

October 20, 1999

Ms. Susan Hugo
Alameda County Health Services
1131 Harbor Bay Parkway
Alameda, California 94502-6700

Alton Project No. 41-0123

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

1683

Dear Ms. ~~Hugo~~: *bc*

Please find enclosed the Third 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, Mobil Engineer, at (925) 625-1173, or Tom Seeliger, Alton Geoscience Associate, at (925) 688-2474.

Sincerely,

C.B.D.

for
Tom Seeliger
Associate

cc: Ms. Cherine Foutch, Mobil Business Resources Corporation
Mr. Chuck Headlee, Regional Water Quality Control Board, San Francisco Bay Region

TRC / ALTON GEOSCIENCE

Quarterly Progress Report Summary Sheet
Third 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: 27-Jul-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:		6.74 ft		
Approximate elevation of potentiometric surface above Mean Sea Level:		26.07 ft		
Average Increase/Decrease in ground water elevations since last sampling episode:		Decrease:	0.04 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:	1	Volume of Free Product Recovered This Period:	0 gals	
Number of wells with concentrations at or above MCL:	1	Volume of Free Product Recovered To Date:	2.65 gals	
Nature of contamination:	Gasoline	Range in Concentrations:	Benzene: ND<0.3 to 170 ppb TPH-G: ND<50 to 8,900 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. Monitoring and sampling activities were not conducted at the site during second quarter 1999 because the monitoring wells were inaccessible. Purged water was transferred to McKittrick Waste Water Treatment Facility.				

Prepared by: Sarah Larese

Sarah Larese
Senior Staff Scientist

Alton Project No: 41-0123

Approved by: Stephen V. Huvane
California Registered Professional Engineer 52385

Stephen V. Huvane, PE
Project Engineer

Submittal Date: 10/20/99



EXHIBIT 1
SAMPLING SCHEDULE

MONITORING WELL SAMPLING SCHEDULE 1999
Former Mobil Station 99-105

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

GROUNDWATER LEVELS AND CHEMICAL ANALYSIS TABLE

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)	Product					Ethyl- benzene (ppb)	Total Xylenes (ppb)	MTBE 8020 (ppb)	MTBE 8240 or 8260 (ppb)	TOG (ppb)	Lead (ppb)	Dissolved Oxygen (mg/L)
						TPH-G (ppb)	TPH-D (ppb)	Benzene (ppb)	Toluene (ppb)								
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	26.60	0.00	ND	—	ND	0.6	ND	ND	ND	—	—	—	0.30	
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	—	—	—	

Summary of Groundwater Levels and Chemical Analysis

Former Mobil Station 99-105

Well ID	Date	Top of Casing	Depth to	Groundwater	Product	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)
		Elevation (feet)	Water (feet)	Elevation (feet)	Thickness (feet)											
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
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	8.80	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	—	—	—	—

Summary of Groundwater Levels and Chemical Analysis

Former Mobil Station 99-105

Well ID	Date	Top of Casing	Depth to	Groundwater	Product	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)
		Elevation (feet)	Water (feet)	Elevation (feet)	Thickness (feet)											
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

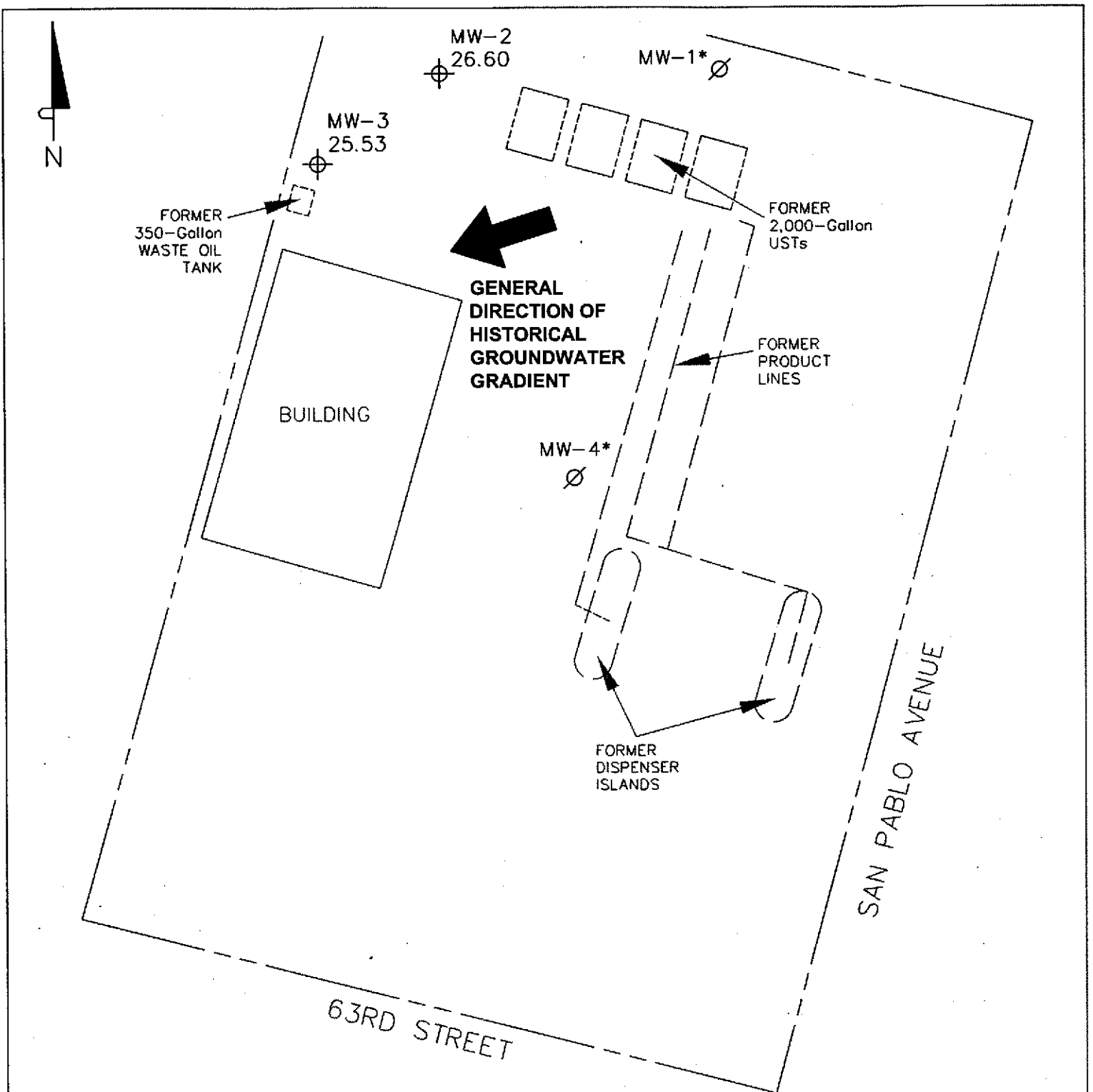
VICINITY MAP

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



**ALTON
GEOSCIENCE**
Northern California

FIGURE 1



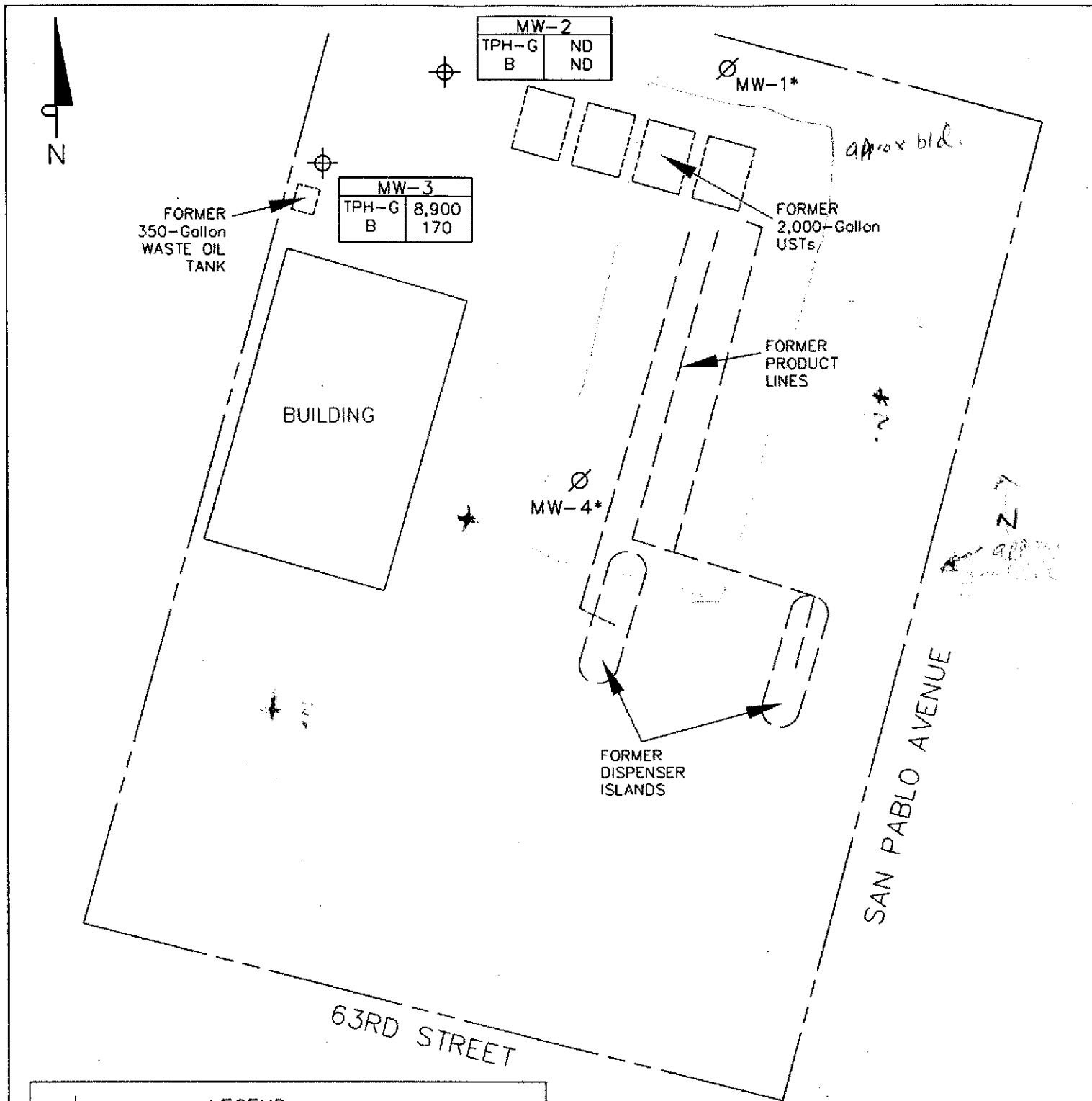
LEGEND	
	Monitoring Well Showing Groundwater Elevation (Feet Relative to Mean Sea Level - NGVD-1929)
	Destroyed Well


NOTES:
 * = well destroyed during construction activities in April 1999.

GROUNDWATER ELEVATIONS
 July 27, 1999

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

FIGURE 2

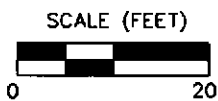


LEGEND							
	Monitoring Well Showing Dissolved-Phase Hydrocarbon Concentrations (ppb)						
<table border="1" style="margin: auto;"> <tr><td colspan="2">MW-2</td></tr> <tr><td>TPH-G</td><td></td></tr> <tr><td>B</td><td></td></tr> </table>	MW-2		TPH-G		B		
MW-2							
TPH-G							
B							

NOTES:
 Hydrocarbon concentrations are based on results of laboratory samples collected July 27, 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**
 July 27, 1999

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



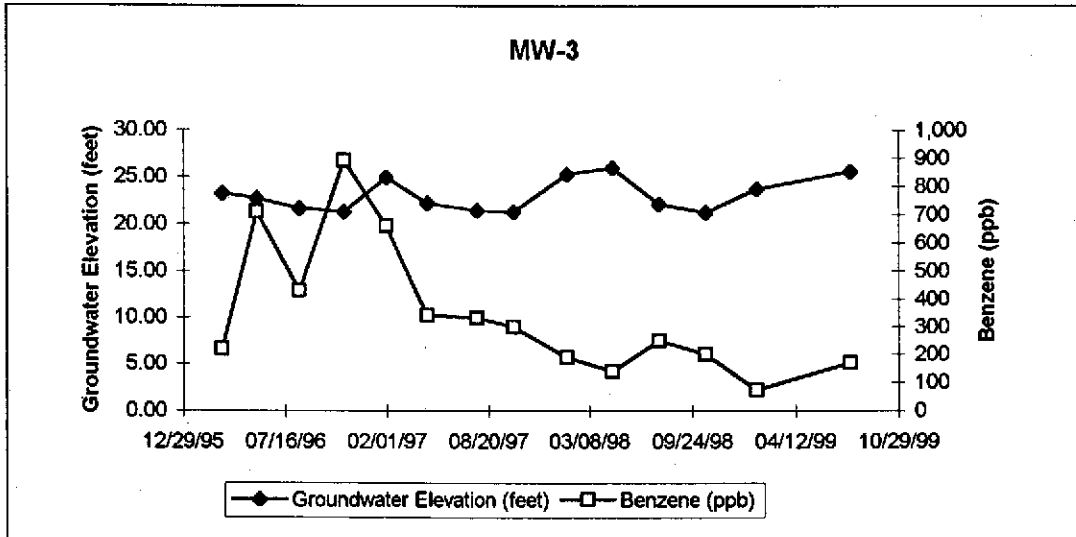
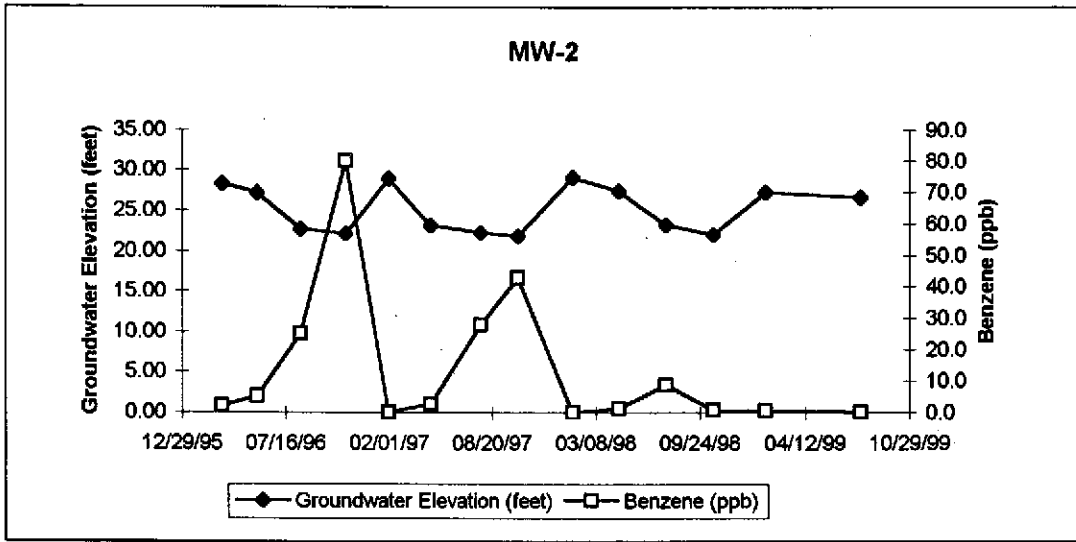
Source: ALISTO Engineering

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 6

MONITORING WELL SAMPLING FORMS

FLUID MEASUREMENT FIELD FORM

Project No.: 41-~~88~~⁰¹²³-60
 Station No.: 99-105

Alton Personnel: K. Ddan
 Date: 7/27/99

Well Number	Screen Interval	Depth to Water	Depth to Product	Free Product Thickness (ft)	Free Product Recovery	Total Depth	Dissolved O ₂ (mg/L)	Comments
MW 3		7.27				20.04	20: ←	1.33
MW 2		6.20				19.47	←	1.30

GROUND WATER SAMPLING FIELD NOTES

Site: 99-105 Project No.: 41-0123 Sampled By: F. Jordan Date: 7/27/99

Well No. WW2 Purge Method: hand bail
 Total Depth (feet) 17.47 Depth to Product (feet): _____
 Depth to Water (feet) 6.20 Product Recovered (gallons): _____
 Water Column (feet): 13.27 Casing Diameter (Inches): 2"
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): 2.12

Well No. WW3 Purge Method: hand bail
 Total Depth (feet) 20.04 Depth to Product (feet): _____
 Depth to Water (feet) 7.27 Product Recovered (gallons): _____
 Water Column (feet): 12.77 Casing Diameter (Inches): 2"
 80% Recharge Depth (feet): _____ 1 Well Volume (gallons): 2.04

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F., C)	pH
2:30				183	75.8	6.89
				181	75.1	6.78
	2:40			180	73.6	6.69
Total Purged			<u>7</u>	Time Sampled		<u>2:45</u>

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F., C)	pH
3:00				198	73.8	6.37
				1.03	73.2	6.31
	3:10			191	71.9	6.28
Total Purged			<u>7</u>	Time Sampled		<u>3:15</u>

Comments: _____
 Turbidity= clear

Comments: _____
 Turbidity= clear

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)	Conductivity (uS/cm)	Temperature (F., C)	pH
Total Purged				Time Sampled		

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F., C)	pH
Total Purged				Time Sampled		

Comments: _____
 Turbidity= _____

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)	Conductivity (uS/cm)	Temperature (F., C)	pH
Total Purged				Time Sampled		

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F., C)	pH
Total Purged				Time Sampled		

Comments: _____
 Turbidity= _____

Comments: _____
 Turbidity= _____

EXHIBIT 7

ANALYTICAL LABORATORY DATA SHEETS



LLI Sample No. WW 3201337
 Collected: 07/26/99 at 14:45 by KD

Account No: 09728

P.O. 99-105
 Rel.

Submitted: 07/28/99 Reported: 08/10/99
 Discard: 09/10/99

Mobil Business Resources Corp.
 2063 Main Street
 Suite 501
 Oakley CA 94561

MW-2 Ground Water Sample
 LOC# 99-105 PRCA# 980044 PHC# 6L
 MOBIL: 6301 San Pablo Ave.; Oakland, CA

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
8209	BTEX, MTBE (8020)			
0776	Benzene	N.D.	0.3	ug/l
0777	Toluene	0.6	0.3	ug/l
0778	Ethylbenzene	N.D.	0.3	ug/l
0779	Total Xylenes	N.D.	0.6	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	LCS LIMITS HIGH
8209 BTEX, MTBE (8020)		Batch: 99210A02									
0776	Benzene										
0.3	ug/l	N.D.		105	103	1	100			81	124
0777	Toluene										
0.3	ug/l	N.D.		112	113	1	105			81	122
0778	Ethylbenzene										
0.3	ug/l	N.D.		111	112	1	106			79	123
0779	Total Xylenes										
0.6	ug/l	N.D.		108	109	1	104			80	123
0780	Methyl tert-Butyl Ether										
10.	ug/l	N.D.		109	97	10	109			79	123
8268 8015 Mod. for Gasoline		Batch: 99210A02									
5554	TPH-GRO (CA LUFT)										
50.	ug/l	N.D.		118	120	2	104			79	128

#=Laboratory Method Detection Limit exceeded State Regulatory 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
 03:14:07 D 0001 2 134750 676206
 327 0.00 00004500 ASR000

Donald J. Shelly Jr.
 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

Lancaster Laboratories is a subsidiary of Thermo TerraTech Inc., a Thermo Electron Company.
 See reverse side for explanation of symbols and abbreviations.



LLI Sample No. WW 3201337
Collected: 07/26/99 at 14:45 by KD

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

P.O. 99-105
Rel.

Submitted: 07/28/99 Reported: 08/10/99
Discard: 09/10/99

MW-2 Ground Water Sample
LOC# 99-105 PRCA# 980044 PHC# 6L
MOBIL: 6301 San Pablo Ave.; Oakland, CA

SAMPLE RPT	SAMPLE LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
SURROGATE SUMMARY												
											SURROGATE LIMITS	
			TRIAL ID	SURROGATE	RECOVERY %				LOW	HIGH		
				TFT-P	103				77	118		
				TFT-F	92				59	144		

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		
			TRIAL ID	DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	07/30/99 2042	Paul Vogel
8268	8015 Mod. for Gasoline	CA LUFT Gasoline Method	1	07/30/99 2042	Paul Vogel

State of California Lab Certification No. 2116

#=Laboratory Method Detection Limit exceeded State Regulatory Limit
N.D.=Not detected at or above the Reporting Limit

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

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



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2425 New Holland Pike
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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 3201338**
 Collected: 07/26/99 at 15:15 by KD

Account No: 09728

P.O. 99-105
 Rel.

Submitted: 07/28/99 Reported: 08/10/99
 Discard: 09/10/99

Mobil Business Resources Corp.
 2063 Main Street
 Suite 501
 Oakley CA 94561

MW-3 Ground Water Sample
 LOC# 99-105-PRCA# 980044 PHC# 6L
 MOBIL: 6301 San Pablo Ave.; Oakland, CA

CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	REPORTING LIMIT	
8209	BTEX, MTBE (8020)			
0776	Benzene	170.	1.	ug/l
0777	Toluene	21.	1.	ug/l
0778	Ethylbenzene	360.	1.	ug/l
0779	Total Xylenes	440.	3.	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)	8,900.	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		
			MS	MSD	MSD							LOW	HIGH	
8209 BTEX, MTBE (8020)		Batch: 99210A02												
0776	Benzene													
1.	ug/l	N.D.			105	103		1	100			81	124	
0777	Toluene													
1.	ug/l	N.D.			112	113		1	105			81	122	
0778	Ethylbenzene													
1.	ug/l	N.D.			111	112		1	106			79	123	
0779	Total Xylenes													
3.	ug/l	N.D.			108	109		1	104			80	123	
0780	Methyl tert-Butyl Ether													
10.	ug/l	N.D.			109	97		10	109			79	123	
8268 8015 Mod. for Gasoline		Batch: 99210A02												

#Laboratory Method Detection Limit exceeded State Regulatory 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
 03:15:03 D 0001 2 134750 676206
 327 0.00 00004500 ASR000

Donald L. Shady Jr.

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



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

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 See reverse side for explanation of symbols and abbreviations.



Lancaster Laboratories
Where quality is a science.

LLI Sample No. WW 3201338
Collected: 07/26/99 at 15:15 by KD

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

P.O. 99-105
Rel.

Submitted: 07/28/99 Reported: 08/10/99
Discard: 09/10/99

MW-3 Ground Water Sample
LOC# 99-105 PRCA# 980044 PHC# 6L
MOBIL: 6301 San Pablo Ave.; 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.		118	120	2	104			79	128

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
8209 BTEX, MTBE (8020)		TFT-P	123	77	118
8268 8015 Mod. for Gasoline		TFT-F	183	59	144

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		
			TRIAL ID	DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	07/30/99 2117	Paul Vogel
8268	8015 Mod. for Gasoline	CA LUFT Gasoline Method	1	07/30/99 2117	Paul Vogel

State of California Lab Certification No. 2116

#-Laboratory Method Detection Limit exceeded State Regulatory Limit
N.D.=Not detected at or above the Reporting Limit

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

Donald L. Shady Jr

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



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See reverse side for explanation of symbols and abbreviations.



For Lancaster Laboratories use only

Acct. #: 9728 Sample #: 3201337-3

TRC/

Please print.

SCR#: _____

Mobil Consultant/Office: <u>ALTON · GEOSCIENCE</u>				Matrix <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Ground Water Sample <input type="checkbox"/> Oil <input type="checkbox"/> Air		Analyses Requested <small>List total number of containers in the box under each analysis.</small>															
Consultant Prj. Mgr: <u>Tom Seuliger</u> Prj. #: <u>41 0123 60</u>		Consultant Phone #: <u>(925) 688 1200</u> Fax #: <u>(925) 688 0388</u>																			
Location Code #: <u>99-105</u>																					
PRCA/AFE/Release #: <u>980044</u> Phase Code: <u>6L</u>		Site Address: <u>6301 San Pablo Ave, Oakland</u> State: <u>CA</u>																			
Sampler: <u>Kevin Dolan</u>																					
Mobil Engineer: <u>Cherine Foutch</u>																					
Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Ground Water Sample	Oil	Air	BTEX 8020	8021	+ MTBE	TPH 8015 MOD	GRO	DRO	NWTPH Gx	Dx	Title 22 Metals	Lead 7420	7421	Remarks	
<u>MW. 2</u>	<u>7/26</u>	<u>2:45</u>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
<u>MW. 3</u>	<u>7/26</u>	<u>3:15</u>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
Turnaround Time Requested (TAT) (please circle): MOBIL STD. TAT <u>72 hour</u> 48 hour 24 hour other _____ day				Relinquished by: <u>Kevin Dolan</u>		Date: <u>7/27</u>		Time: _____		Received by: _____		Date: _____		Time: _____							
Data Package Options (please circle if requested) QC Summary GLP Type I (Tier I) Other Type III (NJ Red. Del.) Disk Type IV (CLP) Type VI (Raw Data) WIP				SDG Complete? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Relinquished by: <u>Shipped Fed Xw/ Custody Seals</u> Date: _____ Time: _____		Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____		Received by: _____ Date: <u>7-28-97</u> Time: <u>09:00</u>		Received by: _____ Date: _____ Time: _____							
Site-specific QC required? Yes <input checked="" type="checkbox"/> (if yes, indicate QC sample and submit triplicate volume.) Internal Chain of Custody required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Relinquished by Commercial Carrier: UPS <input checked="" type="checkbox"/> FedEx _____ Other _____		Temperature Upon Receipt <u>5</u> °C		Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A													

EXHIBIT 8

WASTE DISPOSAL MANIFEST

Monitoring Well Purge Water Transport Form

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. ~~George Montrose~~ Sarah Larese
 for Mobil Oil *[Signature]* 7/28/99
(Date)

Site Information

Date Generated	Site Number	Amount Generated	Sampler's Initials		Date Generated	Site Number	Amount Generated	Sampler's Initials
1	7/20/99	SL-OSA	50	SL	16			
2	6/28/99	046PE		KD	17			
3	6/2				18			
4	7/26/99	99-105	36	KD	19			
5					20			
6					21			
7					22			
8					23			
9					24			
10					25			
11					26			
12					27			
13					28			
14					29			
15					30			

Total: 220

Transporter Information

Name: Clearwater Environmental Management
 Address: P.O. Box 7420
 City, State, Zip: Fremont, CA 94555 Phone: (800) 499-3676
 Truck ID No.: 110 *[Signature]* 7/28/99
(Date)
(Typed or printed full name & signature)

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 *[Signature]* 8-27-99
(Date)
(Typed or printed full name & signature)

NON-HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No.

2. Page 1
of

3. Document Number

NH- No 43798

4. Generator's Name and Mailing Address

Mobile Oil Corporation
3700 West 190th TPT-2
Torrance Ca 90509-2929
Generator's Phone 310 212 1877

199-057PS

5. Transporter Company Name

6. US EPA ID Number

7. Transporter Phone

Clear Water Environmental | CA000007013

(310) 797 8511

8. Designated Facility Name and Site Address

9. US EPA ID Number

10. Facility's Phone

Mckittrick Waste Treatment site
56533 Hwy 58 West,
Mckittrick Ca

1 CAD 980636831

(805) 767-7366

11. Waste Shipping Name and Description

12. Containers

13. Total Quantity

14. Unit W/Vol

a. NON-HAZARDOUS Waste Liquid

No. Type

001 TT

220

G

b.

15. Special Handling Instructions and Additional Information

Handling Codes for Wastes Listed Above

11a.

11b.

Wear PPE
Emergency Contact
(310) 797-8511
Att: Kirk Hayward

Profile #

199-057-PS

GENERATOR'S CERTIFICATION

Printed/Typed Name

Smah Varese

Signature

Month Day Year
7 18 99

Printed/Typed Name

Terry Guines

Signature

Month Day Year
7 28 99

18. Discrepancy Indication Space

PH7 Tons 19.57

Printed/Typed Name

Debbie Trout

Signature

Month Day Year
8 12 99