

5716
1683

July 15, 1998

Mr. Brian Oliva
Alameda County Health Care Services
Room 250
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

ATTN: MR. BRIAN OLIVA

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

RE: SUPPLEMENTAL SITE ASSESSMENT REPORT

Dear Mr. Oliva:

Please find enclosed a copy of our supplemental site assessment report for Former Mobil Station 99-105, located at 6301 San Pablo Avenue in Oakland, California.

If you have any questions regarding this report, please call me at (925) 606-9150.

Sincerely,

ALTON GEOSCIENCE



Thomas E. Seeliger
Project Manager

Enclosures

M:\...199105.ssa

cc: Ms. Cherine Foutch, Mobil
Mr. Chuck Headlee, RWQCB
Ms. Connie Lamb -

200 Davado Terrace
SF 94112

98 JUL 20 PM 4:25
ENVIRONMENTAL
PROTECTION

SUPPLEMENTAL SITE ASSESSMENT REPORT

**FORMER MOBIL STATION 99-105
6301 San Pablo Avenue
Oakland, California**

May 27, 1998

Alton Project No. 41-0123

Prepared For:

**MOBIL OIL CORPORATION
2063 Main Street, #501
Oakley, California 94561**

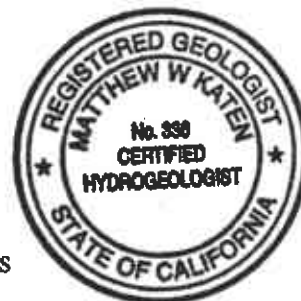
By:



**Jacob Madden
Senior Staff Geologist**



**Matthew W. Katen, RG, CHG
Principal, Northern California Operations**



**ALTON GEOSCIENCE
30A Lindbergh Avenue
Livermore, California 94611**

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION	1
2.0 SITE DESCRIPTION	1
3.0 BACKGROUND SITE CONDITIONS	2
4.0 FIELD ACTIVITIES	2
4.1 Soil Borings and Sample Collection.....	2
4.2 Laboratory Analysis.....	3
5.0 FINDINGS	3
6.0 CONCLUSIONS.....	4
7.0 REFERENCES	4

Figures

- 1 Vicinity Map
- 2 Site Plan with Boring Locations
- 3 Hydrocarbon Concentrations in Soil
- 4 Hydrocarbon Concentrations in Groundwater

Tables

- 1 Summary of Soil Sample Analysis
- 2 Summary of Groundwater Sample Analysis

Appendices

- A General Field Procedures and Boring Logs
- B Boring Permit
- C Analytical Methods, Official Laboratory Reports, and Chain of Custody Records

Supplementary Site Assessment Report

Former Mobil Station 99-105

July 15, 1998

1.0 INTRODUCTION

This summary report presents the findings of subsurface investigation activities conducted onsite at the former service station located at 6301 San Pablo Avenue in Oakland, California. This work was conducted pursuant to the Workplan for Additional Assessment Activities dated October 13, 1997 (Alton Geoscience, 1997), and with the approval of the Alameda County Department of Environmental Health Services (ACDEHS).

The objective of this subsurface investigation was to characterize the extent of soil and groundwater hydrocarbons onsite.

2.0 SITE DESCRIPTION

- Present Site Use:** The property is currently unoccupied and enclosed by a plywood fence. A former service station building exists onsite.
- Past Site Use:** The site was a Mobil service station from 1951 to 1980 before being used as a car rental lot. The former underground storage tanks (USTs) were not in use after 1980.
- Adjacent Property:** The site is located on the northwest corner of San Pablo Avenue and 63rd Street in Oakland, California (Figure 1). Commercial properties are to the north and northeast across San Pablo Avenue. To the southeast, across San Pablo Avenue, is an elementary school, and to the west, south, and southwest are residential properties.
- Geography:** San Francisco Bay is located approximately 5,000 feet to the west of the site. Topography in the vicinity of the site is relatively flat but slopes gently west towards the bay. The site has an elevation of approximately 22 feet above mean sea level [NGVD 1929].
- Regional Hydrogeology:** The site is located in the East Bay Plain Groundwater Basin. Generally groundwater flows westward towards the Bay (RWQCB, 1995).

3.0 BACKGROUND SITE CONDITIONS

The following background conditions preceded the field activities summarized in this report:

- One 350-gallon waste oil and four 2,000-gallon gasoline USTs were removed in 1994. Holes were noted in two of the gasoline USTs. Analysis of soil samples collected from beneath the tank excavation at 11 feet below grade (fbg) detected petroleum hydrocarbons of up to 520 ppm (Alisto, 1996). Liquid-phase petroleum hydrocarbon was observed in the groundwater in the excavation (ACDEHS, 1994)
- The product piping was removed from the site in February 1996. No holes were observed in the piping, but the steel piping removed from the northwest end of the former dispenser island showed indications of rust and staining (Alisto 1996).
- An estimated total of 367 cubic yards of hydrocarbon impacted soil was excavated and removed from the site between August 1994 and February 1996.
- On March 1, 1996, four groundwater monitoring wells (MW-1 through MW-4) were installed to depths ranging from 20 to 25 fbg at the locations shown on Figure 2 (Alisto 1996). Quarterly monitoring and sampling of the wells has been conducted at the site since June 1996.
- Liquid-phase hydrocarbons have been periodically detected in MW-4 since the third quarter of 1996. Liquid phase hydrocarbons were also noted on the groundwater in the UST excavation in 1994.

4.0 FIELD ACTIVITIES

4.1 SOIL BORINGS AND SAMPLE COLLECTION

On March 5, 1998, thirteen Geoprobe™ borings were advanced to 10 fbg at the locations shown on Figure 2. Soil cores were collected continuously in order to determine if shallow soil contamination exists. Select soil samples were screened for hydrocarbon vapor content using a portable combustible gas indicator (TLV Sniffer®). Descriptions of the soil samples were made using the Unified Soil Classification System (USCS), and recorded on the boring logs along with the hydrocarbon screening results (Appendix A).

Once total depth was achieved with the Geoprobe™, each boring was allowed to remain open until a groundwater sample could be collected. Using a stainless steel bailer through a temporary one-inch diameter casing, a "grab-type" groundwater sample was collected from each boring that contained water. Samples were not collected from borings AB-5, AB-7, or AB-8 due to the absence of groundwater in these borings. Following completion of the sampling activities, each boring was sealed from total depth to the surface grade using neat cement. Refer to Appendix A for a description of the

Supplementary Site Assessment Report

Former Mobil Station 99-105

July 15, 1998

general field procedures, an outline of the USCS, and copies of the soil boring logs. A copy of the Alameda County boring permit is provided in Appendix B.

4.2 LABORATORY ANALYSES

Select soil samples, collected from depths ranging from 3 to 6 fbg, and groundwater samples collected from 10 of the 13 borings (AB-1 through AB-4, AB-6, and AB-9 through AB-13), were preserved onsite and submitted to a state-certified laboratory.

Select soil and groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX), and; methyl tertiary-butyl ether (MTBE). Results of the laboratory analyses are listed in Tables 1 and 2, and summarized on Figures 3 and 4. Refer to Appendix C for the analytical methods used, copies of the certified laboratory reports including quality assurance/quality control (QA/QC) reports, and the chain of custody records.

5.0 FINDINGS

The results of this subsurface investigation are summarized as follows:

Soil Results

- Soils encountered during drilling consisted mainly of clayey and gravelly silts, and minor sand lenses, from surface grade to approximately 10 fbg. Saturated soils were generally encountered from 5 to 10 fbg.
- Gasoline-range hydrocarbons were detected in soil samples collected from approximately 3 to 6 fbg. The highest TPH-G concentration (230 ppm) was detected at 5 fbg in Boring AB-6, located near the center of the site (Figure 3).
- Benzene was detected in only one soil sample during this investigation, 0.006 ppm at 4 fbg in AB-9 (Figure 3).
- MTBE was not detected in any soil samples.

Groundwater Results

- Groundwater was encountered during drilling at depths ranging from 2 to 8.5 fbg.
- Dissolved-phase TPH-G concentrations were detected in groundwater samples from eight of the 10 borings which contained groundwater (AB-1, AB-3, AB-4, AB-6, AB-9, AB-10, AB-12, and AB-13). A maximum TPH-G concentration of 12,000 ppb was detected in a grab groundwater

Supplementary Site Assessment Report

Former Mobil Station 99-105

July 15, 1998

sample collected from Boring AB-6. Liquid-phase hydrocarbons were present in monitoring well MW-4 during the First Quarter 1998 monitoring event conducted in January.

- Dissolved-phase benzene concentrations were detected in grab groundwater samples collected from eight of the borings (AB-1, AB-3, AB-4, AB-6, AB-9, AB-10, AB-12, and AB-13). A maximum benzene concentration of 680 ppb was detected in a grab groundwater sample collected from Boring AB-3.
- Dissolved-phase MTBE concentrations of 230 and 37 ppb were detected in grab groundwater samples collected from Borings AB-3 and AB-12, respectively using EPA Method 8020. Due to a laboratory oversight, EPA method 8260 was not used to confirm the presence of MTBE. MTBE has never been detected when EPA method 8260 was used during normal quarterly sampling; therefore, it seems likely that these detections are false positives.

6.0 CONCLUSIONS

Based on the results of this and previous investigations, and past remedial activities conducted at the site, Alton Geoscience concludes:

- The lateral and vertical extent of hydrocarbon-affected soil was adequately characterized onsite from the surface to the current groundwater table. From 3 to 6 fbg, TPH-G concentrations greater than 100 ppm appear limited to the central portion of the site (Figure 3); however, benzene does not appear to be present in any appreciable concentrations within these limits.
- Liquid-phase hydrocarbons exist locally around MW-4. None of the grab groundwater samples collected during this investigation contained a separate floating phase.
- The current extent of the dissolved-phase benzene plume is characterized onsite, but remains uncharacterized offsite in the upgradient and downgradient directions (Figure 5).

7.0 REFERENCES

Alton Geoscience, 1997, Workplan For Additional Assessment Activities, 6301 San Pablo Avenue, Oakland, California, October 13.

Alisto Engineering Group, 1996, Additional Tank Closure and Preliminary Site Investigation Report, 6301 San Pablo Avenue, Oakland, California, April 15.

ACDEHS, 1994, Letter- Underground Storage Tanks Removal at the Former Cars Rent A Car, 6301 San Pablo Avenue, Oakland, California. November 21.

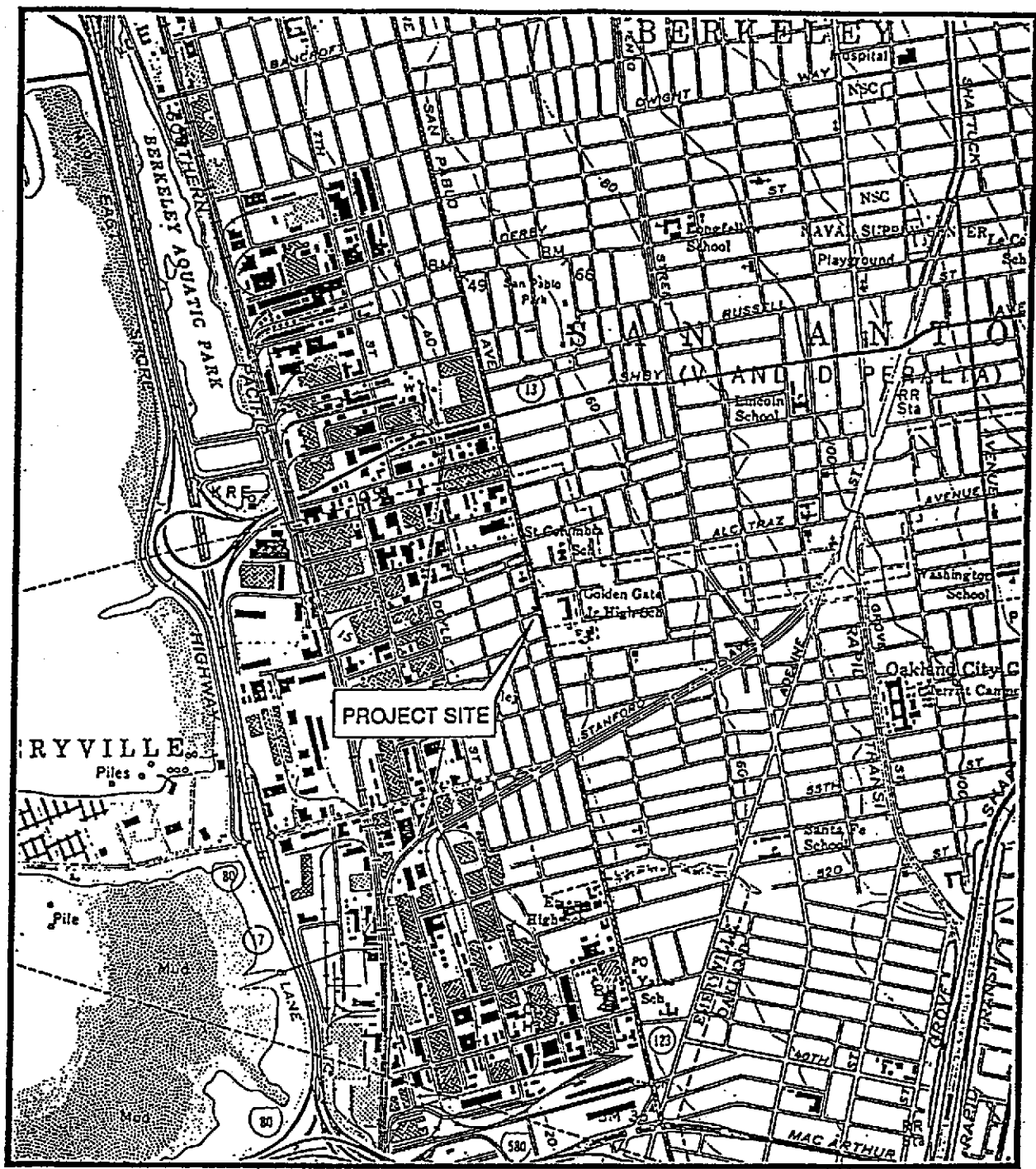
Supplementary Site Assessment Report

Former Mobil Station 99-105

July 15, 1998

RWQCB, 1995, Water Quality Control Plan, San Francisco Bay Basin (Region 2), June 21.

The site assessment activities summarized in this report have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, expressed or implied, is made regarding the conclusions and recommendations presented in this report. The conclusions and recommendations are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.



SCALE 1:24,000



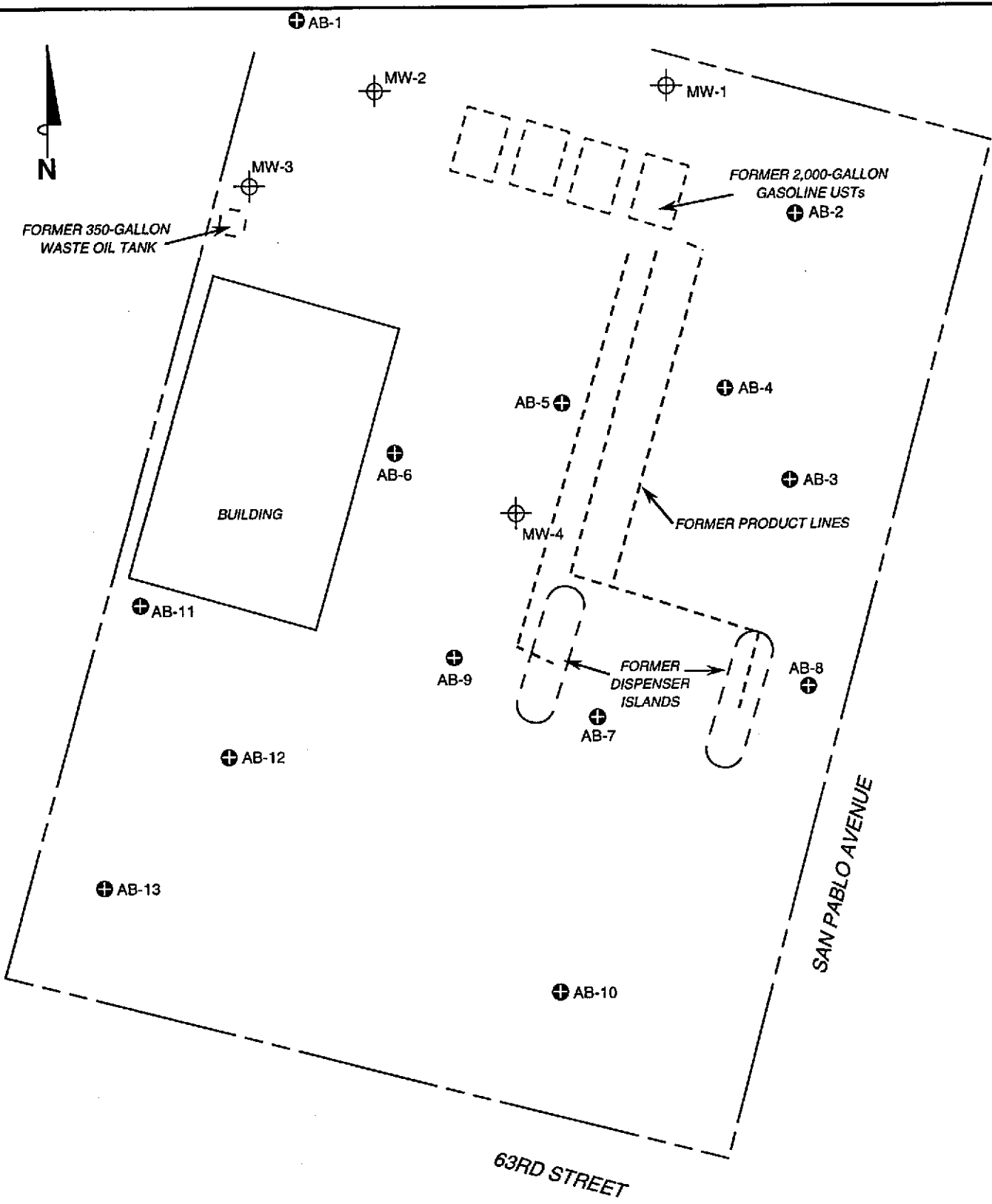
Source: U.S.G.S. Map
Oakland West Quadrangle
California
7.5 Minute Series

VICINITY MAP

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

FIGURE 1

**ALTON
GEOSCIENCE**
Livermore, California



LEGEND

- MW-1 Monitoring Well
- AB-1 Boring



**ALTON
GEOSCIENCE**
Livermore, California

SCALE (feet)



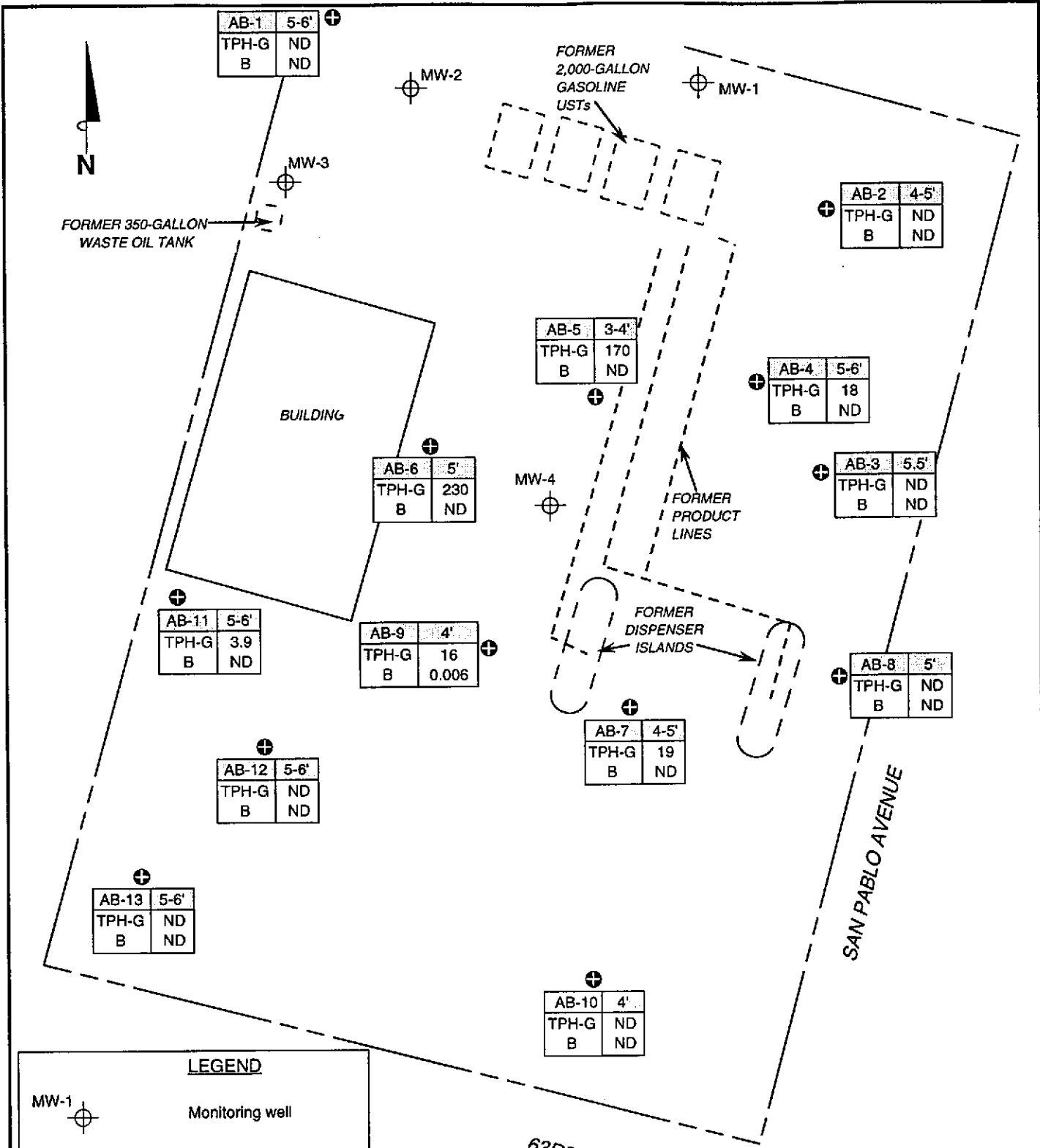
0 5 10 20

Source: ALISTO Engineering

**SITE PLAN WITH
BORING LOCATIONS**

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

FIGURE 2



AB-1	5-6'
TPH-G	ND
B	ND

MW-2

FORMER
2,000-GALLON
GASOLINE
USTs

MW-1

FORMER 350-GALLON
WASTE OIL TANK

BUILDING

AB-2	4-5'
TPH-G	ND
B	ND

AB-5	3-4'
TPH-G	170
B	ND

AB-4	5-6'
TPH-G	18
B	ND

AB-3	5.5'
TPH-G	ND
B	ND

AB-6	5'
TPH-G	230
B	ND

MW-4

FORMER
PRODUCT
LINES

AB-11	5-6'
TPH-G	3.9
B	ND

AB-9	4'
TPH-G	16
B	0.006

FORMER
DISPENSER
ISLANDS

AB-8	5'
TPH-G	ND
B	ND

AB-12	5-6'
TPH-G	ND
B	ND

AB-7	4-5'
TPH-G	19
B	ND

AB-13	5-6'
TPH-G	ND
B	ND

AB-10	4'
TPH-G	ND
B	ND

SAN PABLO AVENUE

63RD STREET

LEGEND

MW-1

Monitoring well

+

AB-10	Depth
TPH-G	
B	

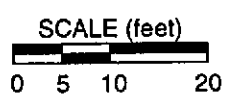
Boring showing hydrocarbon concentrations (ppm)

NOTES:

Results are based on laboratory analysis of soil samples collected March 5, 1998. TPH-G = total petroleum hydrocarbons as gasoline; B = benzene; ppm = parts per million; ND = not detected at or above method detection limits.

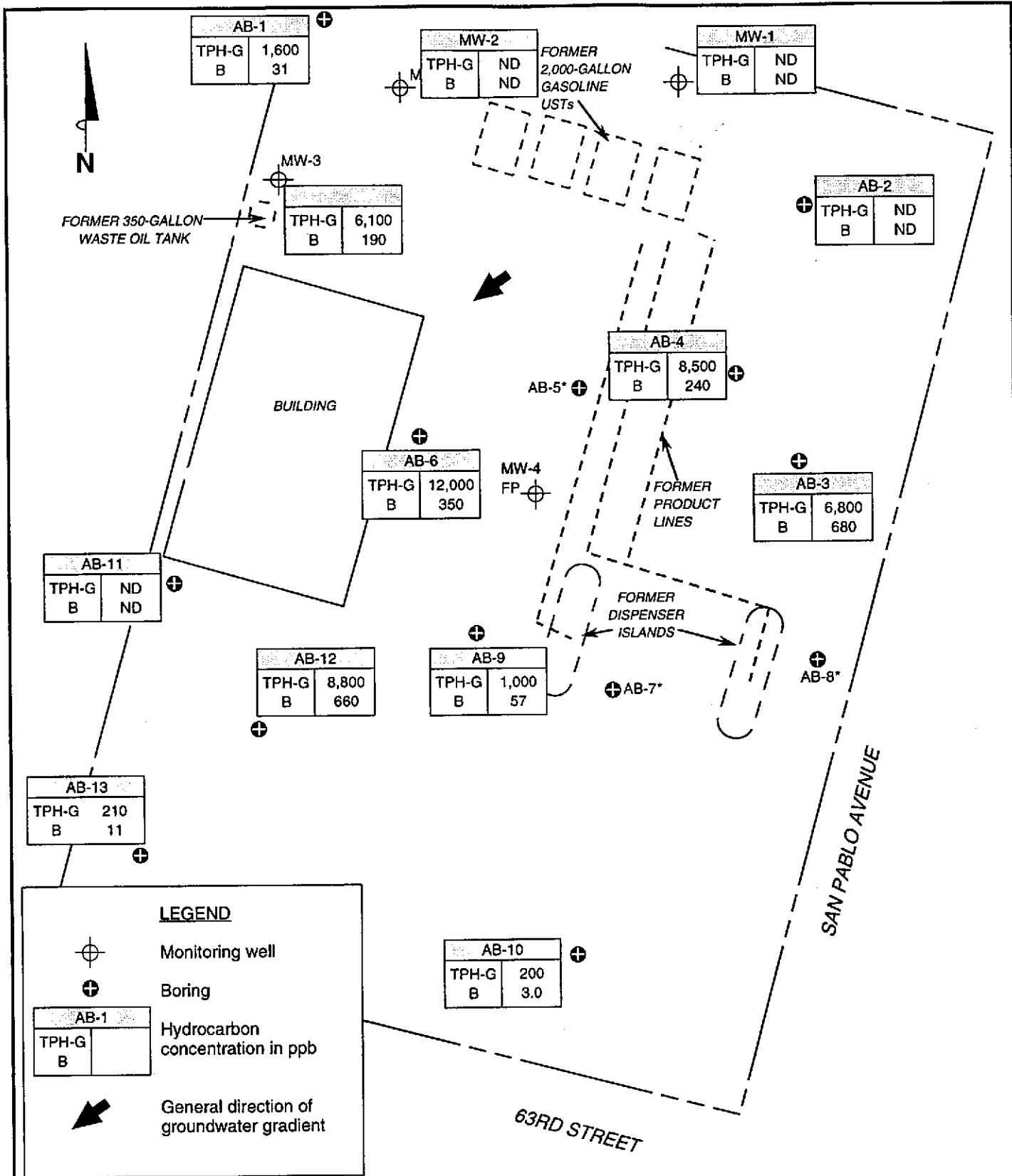
**HYDROCARBON
CONCENTRATIONS IN
SOIL: 3 TO 6 FEET BELOW
GRADE
March 5, 1998**

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



Source: ALISTO Engineering

FIGURE 3



HYDROCARBON CONCENTRATIONS IN GROUNDWATER First Quarter 1998

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

FIGURE 4

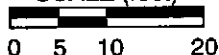
NOTES:

Results based on laboratory analysis of groundwater samples collected from monitoring wells on January 23, 1998 and from soil borings on March 5, 1998. Contours are interpretive and are based on dissolved-phase benzene concentrations. TPH-G = total petroleum hydrocarbons as gasoline; B = benzene; ppb = parts per billion; ND = not detected at or above method detection limits; FP = free product. * = not enough groundwater present for sampling.



**ALTON
GEOSCIENCE**
Livermore, California

SCALE (feet)



0 5 10 20

Source: ALISTO Engineering

Table 1
Summary of Soil Sample Analysis
Former Mobil Station 99-105

Sample ID	Depth (feet)	Date	TPH-G (ppm)	TPH-D (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)	TOG (ppm)	Lead (ppm)	MTBE (ppm)
MW-1	5-5.5'	03/01/96	ND<1.0	3.4	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	ND<2.5	—
MW-1	10-10.5'	03/01/96	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	ND<2.5	—
MW-1	15-15.5'	03/01/96	ND<1.0	4.2	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	ND<2.5	—
MW-2	5-5.5'	03/01/96	ND<1.0	2.4	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	—	ND<2.5	—
MW-2	10-10.5'	03/01/96	220	57	1.2	1.4	2.7	14	—	ND<2.5	—
MW-2	15-15.5'	03/01/96	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	0.0063	0.035	—	ND<2.5	—
MW-3	5.5-6'	03/01/96	ND<1.0	1.1	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	9.0	ND<2.5	—
MW-3	10.5-11'	03/01/96	53	72	0.032	0.43	0.65	0.93	290	ND<2.5	—
MW-3	15.5-16'	03/01/96	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	10	ND<2.5	—
MW-4	5.5-6'	03/01/96	280	34	1.2	1.0	4.1	19	—	ND<2.5	—
MW-4	10.5-11'	03/01/96	5.8	7.7	0.11	ND<0.0050	0.11	0.093	—	ND<2.5	—
MW-4	15.5-16'	03/01/96	5.6	2.1	0.076	0.023	0.083	0.070	—	ND<2.5	—
AB-1	5-6'	03/05/98	ND	—	ND	ND	ND	ND	—	—	ND
AB-2	4-5'	03/05/98	ND	—	ND	ND	ND	ND	—	—	ND
AB-3	5.5'	03/05/98	ND	—	ND	ND	ND	ND	—	—	ND
AB-4	5-6'	03/05/98	18	—	ND	ND	ND	ND	—	—	ND
AB-5	3-4'	03/05/98	170	—	ND	ND	0.65	ND	—	—	ND
AB-6	5'	03/05/98	230	—	ND	ND	ND	ND	—	—	ND
AB-7	4-5'	03/05/98	19	—	ND	ND	0.032	ND	—	—	ND
AB-8	5'	03/05/98	ND	—	ND	ND	ND	ND	—	—	ND
AB-9	4'	03/05/98	16	—	0.006	ND	0.028	ND	—	—	ND

Summary of Soil Sample Analysis

Former Mobil Station 99-105

Sample ID	Depth (feet)	Date	TPH-G (ppm)	TPH-D (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Total Xylenes (ppm)	TOG (ppm)	Lead (ppm)	MTBE (ppm)
AB-10	4'	03/05/98	ND	—	ND	ND	ND	ND	—	—	ND
AB-11	5-6'	03/05/98	3.9	—	ND	ND	ND	ND	—	—	ND
AB-12	5-6'	03/16/98	ND	—	ND	ND	ND	ND	—	—	ND
AB-13	5-6'	03/16/98	ND	—	ND	ND	ND	ND	—	—	ND

NOTES:

- ppm = parts per million
- 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

Summary of Groundwater Sample 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)
AB-1‡	03/05/98	—	4.0	—	0.00	1,600	—	31	5.3	79	130	ND	—	—	—
AB-2‡	03/05/98	—	6.0	—	0.00	ND	—	ND	2.9	0.9	5.7	ND	—	—	—
AB-3‡	03/05/98	—	5.5	—	0.00	6,800	—	680	100	1,500	2,300	230	—	—	—
AB-4‡	03/05/98	—	4.0	—	0.00	8,500	—	240	ND	260	720	ND	—	—	—
AB-6‡	03/05/98	—	4.5	—	0.00	12,000	—	350	ND	310	100	ND	—	—	—
AB-9‡	03/05/98	—	6.0	—	0.00	1,000	—	57	12	44	93	ND	—	—	—
AB-10‡	03/05/98	—	2.0	—	0.00	200	—	3.0	1.2	3.2	2.8	ND	—	—	—
AB-11‡	03/05/98	—	8.5	—	0.00	ND	—	ND	ND	ND	ND	ND	—	—	—
AB-12‡	03/16/98	—	6.0	—	0.00	8,800	—	660	50	630	940	37	—	—	—
AB-13‡	03/16/98	—	6.0	—	0.00	210	—	11	0.8	10	15	ND	—	—	—

NOTES:

ppb = parts per billion
 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
 ** = 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
 ‡ = grab-type groundwater sample collected through temporary casing in soil boring

APPENDIX A

GENERAL FIELD PROCEDURES AND BORING LOGS

GENERAL FIELD PROCEDURES

A description of the general field procedures used during site investigation and monitoring activities is presented below. For an overview of protocol, refer to the appropriate section(s).

DRILLING AND SOIL SAMPLING

Soil borings were advanced using a truck-mounted Geoprobe™ rig. Borings that were not completed as monitoring wells were grouted to the ground surface with a cement slurry, which was placed in each boring using a tremie pipe.

Soil samples were obtained for soil description, field hydrocarbon vapor screening, and possible laboratory analysis. Soil samples were retrieved from the borings by one of two methods: 1) continuously, using a 1 and 3/4-inch diameter 4-foot-long, continuous-core macro core sampler lined with acetate or brass sleeves, or; 2) at specific intervals using an 1-inch diameter 2-foot-long, continuous-core micro core sampler lined with acetate or brass sleeves, each advanced into the soil with a weighted or vibrating hammer.

During drilling activities, soil adjacent to the laboratory sample is screened for combustible vapors using a combustible gas indicator (CGI) or equivalent field instrument. For each hydrocarbon vapor screening event, a 6-inch-long by 2.5-inch-diameter sample insert is filled approximately 1/3 full with the soil sample, capped at both ends, and shaken. The probe is then inserted through a small opening in the cap, and a reading is taken after approximately 15 seconds and recorded on the boring log. The remaining soil recovered is removed from the sample insert or sampler, and described in accordance with the Unified Soil Classification System. For each sampling interval, field estimates of soil type, density/consistency, moisture, color, and grading were recorded on the boring logs.

SOIL SAMPLE HANDLING

Upon retrieval, soil samples were immediately removed from the sampler, sealed with Teflon sheeting and polyurethane caps, and wrapped with tape. Each sample is labeled with the project number, boring/well number, sample depth, geologist's initials, and date of collection. After the samples have been labeled and documented in the chain of custody record, they were placed in a cooler with ice at approximately 4 degrees Celsius (°C) prior to and during transport to a state-certified laboratory for analysis. Samples not selected for immediate analysis may be transported in a cooler with ice and archived in a frostless refrigerator at approximately 4°C for possible future testing.

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 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

Once total depth is reached with the Geoprobe™ equipment, grab-type groundwater samples were collected by lowering a 10 foot section of 1/4 inch Teflon tubing with a stainless steel check ball attached at the bottom, below the static water level and filled by gently pushing the tubing up and down. The tubing is retrieved and the sample is properly decanted to 1-liter and 40-milliliter glass containers. The sample containers were 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. After the samples have been labeled and documented in the chain of custody record, they were placed in a cooler with ice at approximately 4 degrees Celsius (°C) prior to and during transport to a state-certified laboratory for analysis.

CHAIN OF CUSTODY PROTOCOL

Chain of custody protocol is followed for all soil and groundwater samples selected for laboratory analysis. The chain of custody form(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis.

DECONTAMINATION

Drilling/Geoprobe™ equipment is decontaminated by steam cleaning before being brought onsite. The rods were also steam cleaned before each new boring is commenced. Prior to use, the sampler and sampling tubes were brush-scrubbed in a Liqui-nox and potable water solution and rinsed twice in clean potable water. Water level meters and water sampling equipment were also decontaminated before each measurement or sample is collected to avoid cross-contamination between monitoring wells.

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			TYPICAL NAMES			
COARSE-GRAINED SOILS MORE THAN HALF IS LARGER THAN No. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN No. 4 SIEVE SIZE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
			GRAVELS WITH OVER 12% FINES	GP		POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES
				GM		SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
				GC		CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN No. 4 SIEVE SIZE	CLEAN SANDS WITH LITTLE OR NO FINES	SW		WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
			SANDS WITH OVER 12% FINES	SP		POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SM		SILTY SANDS, SAND-SILT MIXTURES
				SC		CLAYEY SANDS, SAND-CLAY MIXTURES
		SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		ML		INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL		INORGANIC CLAYS OF LOW- TO MEDIUM-PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
	OL			ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY		
SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			MH		INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS	
			CH		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
			OH		ORGANIC CLAYS OF MEDIUM- TO HIGH-PLASTICITY, ORGANIC SILTS	
HIGHLY ORGANIC SOILS			Pt		PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

SYMBOLS AND NOTES

- SAMPLE INTERVAL
- SAMPLE NOT RECOVERED
- BENTONITE
- CONCRETE
- GROUT
- FILTER SAND PACK
- STATIC WATER LEVEL
- WATER LEVEL ENCOUNTERED
WHEN DRILLING

- ppm = parts per million (mg/kg)
- ppb = parts per billion (µg/kg)
- ND = not detected at detection limits stated in official laboratory reports
- CGI = combustible gas indicator
- OVA = organic vapor analyzer
- PID = photoionization detector
- LEL = lower explosive limit
- TPH = total petroleum hydrocarbons
- TRPH = total recoverable petroleum hydrocarbons
- NA = not applicable

PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe SAMPLER TYPE: 4-inch Macro-Core Sampler TOTAL DEPTH: 10.0 feet DEPTH TO WATER: 4.0 feet		USCS	LITHOLOGY	BORING DETAIL
				DESCRIPTION				
	0		0	CLAYEY SILT WITH GRAVEL: brownish yellow, moist, low plasticity.		ML	Cement	0
		ND	5					5
	20		10					10
			15					15
			20					20
			25					25
			30					30
			35					35
			40					40

PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe	USCS	LITHOLOGY	BORING DETAIL
					SAMPLER TYPE: 4-inch Macro-Core Sampler			
				0	CLAYEY SILT WITH GRAVEL: brown, stiff, moist, low plasticity.	ML		Cement
	0	ND		5	SANDY GRAVEL LENS: medium brown, loose, wet, fine-grained, poorly graded.	GP		
				10	CLAYEY SILT	ML		
				15				
				20				
				25				
				30				
				35				
				40				

PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe SAMPLER TYPE: 4-inch Macro-Core Sampler TOTAL DEPTH: 10.0 feet DEPTH TO WATER: 5.5 feet		USCS	LITHOLOGY	BORING DETAIL
				DESCRIPTION				
			0					0
	10				CLAYEY SILT WITH GRAVEL: olive green, stiff, wet, low plasticity.	ML		
	150		5			▽		
	1,000	ND	10					
			15					
			20					
			25					
			30					
			35					
			40					

PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe SAMPLER TYPE: 4-inch Macro-Core Sampler TOTAL DEPTH: 10.0 feet DEPTH TO WATER: 4.0 feet		USCS	LITHOLOGY	BORING DETAIL
				DESCRIPTION				
	20		0	CLAYEY SILT: mottled brown and green, stiff, moist, low plasticity, 5-10% minor sand.		ML ▽	Cement	0
	100	18	5					5
			10					10
			15					15
			20					20
			25					25
			30					30
			35					35
			40					40

PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe	USCS	LITHOLOGY	BORING DETAIL	
					SAMPLER TYPE: 4-inch Macro-Core Sampler			TOTAL DEPTH: 10.0 feet DEPTH TO WATER: 6.0 feet	DESCRIPTION
	20			0	CLAYEY SILT WITH GRAVEL: brown to 3 feet below grade and green from 3 to 10 feet below grade, hard, moist to wet, low plasticity, less than 6 inches minor sandy gravel lenses.	ML			
	100	170		5					
	500			10					
	1,000			15					
				20					
				25					
				30					
				35					
				40					



PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe SAMPLER TYPE: 4-inch Macro-Core Sampler TOTAL DEPTH: 10.0 feet DEPTH TO WATER: 4.5 feet		USCS	LITHOLOGY	BORING DETAIL
				DESCRIPTION				
			0	CLAYEY SILT WITH GRAVEL: mottled green and brown, stiff, moist, low plasticity, less than 5% minor sand.		ML		
	30	230	5					
	7,000		10					
			15					
			20					
			25					
			30					
			35					
			40					

PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe SAMPLER TYPE: 4-inch Macro-Core Sampler TOTAL DEPTH: 10.0 feet DEPTH TO WATER: 5.0 feet		USCS	LITHOLOGY	BORING DETAIL	
				DESCRIPTION					
			0	SILTY CLAY: dark brown, soft, wet, high plasticity.		CL		0	Cement
	100	19	5	CLAYEY SILT WITH GRAVEL: mottled brown and green, hard, wet, low plasticity.		ML		5	
			10					10	
			15					15	
			20					20	
			25					25	
			30					30	
			35					35	
			40					40	




PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe	USCS	LITHOLOGY	BORING DETAIL
					SAMPLER TYPE: 4-inch Macro-Core Sampler			
100				0	CLAYEY SILT: mottled reddish brown and green, soft, moist, low plasticity, minor sandy gravel lenses.	ML		
7,000		ND	5	10				
				10				
				15				
				20				
				25				
				30				
				35				
				40				



PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe	USCS	LITHOLOGY	BORING DETAIL
				SAMPLER TYPE: 4-inch Macro-Core Sampler			
			0	GRAVEL FILL to 2 feet below grade.	FI		 Cement
	5,000	16	5	CLAYEY SILT WITH GRAVEL: light reddish brown, hard, moist, low plasticity, 70% clay, 30% gravel.	ML		
			10				
			15				
			20				
			25				
			30				
			35				
			40				

PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe SAMPLER TYPE: 4-inch Macro-Core Sampler TOTAL DEPTH: 10.0 feet DEPTH TO WATER: 2.0 feet		USCS	LITHOLOGY	BORING DETAIL	
				DESCRIPTION					
	150	ND	0	SILTY CLAY: light brown, soft, wet, medium plasticity, 5-10% minor gravel.		CL		0	 Cement
			5					5	
			10					10	
			15					15	
			20					20	
			25					25	
			30					30	
			35					35	
			40					40	



LOG OF EXPLORATORY BORING

41-0123098-105 Boring Log AB-10

PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

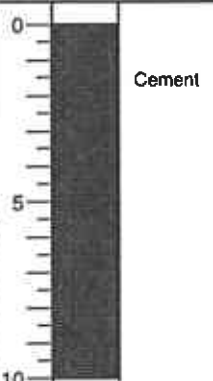
DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe	USCS	LITHOLOGY	BORING DETAIL
					SAMPLER TYPE: 4-inch Macro-Core Sampler			
500		3.9		0	CLAYEY SILT: mottled greenish brown, stiff, moist, low plasticity, <5% minor gravel.	ML		
				10		▽		

PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe SAMPLER TYPE: 4-inch Macro-Core Sampler TOTAL DEPTH: 10.0 feet DEPTH TO WATER: 6.0 feet		USCS	LITHOLOGY	BORING DETAIL
				DESCRIPTION				
			0					0
			5	CLAYEY SILT: mottled greenish brown, soft, moist, low plasticity.		ML		
100		ND	5	SILTY CLAY: dark brown, soft, wet, high plasticity (Bay mud).		CL		
			10					
			15					
			20					
			25					
			30					
			35					
			40					



PROJECT NO.: 41-0123
 LOCATION: Former Mobil Station 99-105
 6301 San Pablo Avenue
 Oakland, California

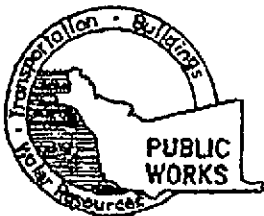
DATE DRILLED: 3/5/98
 LOGGED BY: J. Madden
 APPROVED BY: M. Katen, RG
 DRILLING CO.: V & W Drilling

BLOWS PER 6 INCHES	TLV	TPH (ppm)	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe	USCS	LITHOLOGY	BORING DETAIL	
					SAMPLER TYPE: 4-inch Macro-Core Sampler				TOTAL DEPTH: 10.0 feet DEPTH TO WATER: 6.0 feet
10	ND			0	CLAYEY SILT: light brown, moist, low plasticity.	ML		0	Cement
				5	SILTY CLAY: dark brown, soft, wet, high plasticity (Bay mud).	CL		5	
				10				10	
				15				15	
				20				20	
				25				25	
				30				30	
				35				35	
				40				40	

APPENDIX B

BORING PERMIT

TOTAL P.02



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
 PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
 (510) 670-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 6301 San Pablo
Ave Oakland CA

PERMIT NUMBER 98WR091
 WELL NUMBER _____
 APN _____

California Coordinates Source _____ ft. Accuracy ± _____ ft.
 CCN _____ n. CCE _____ ft.
 APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT Name Mobil Oil Corporation
 Address 2063 Main St. Suite 501 Phone (510) 625-1173
 City Oakley Zip 94561

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT Name Alton Geoscience
 Address 30A Lindbergh Ave Phone (510) 606-9150
 City Livermore Zip 94550

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 30 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

TYPE OF PROJECT
 Well Construction Geotechnical Investigation
 Cathodic Protection General
 Water Supply Contamination
 Monitoring Well Destruction
Soil/Gravel/Drainage Investigation (Borings)

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE
 New Domestic Replacement Domestic
 Municipal Irrigation
 Industrial Other _____

D. GEOTECHNICAL

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material.
 In areas of known or suspected contamination, tremie cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:
 Mud Rotary Air Rotary Auger
 Cyclic Other (Direct Push)

DRILLER'S LICENSE NO. 657-720904

E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.

WELL PROJECTS
 Drill Hole Diameter _____ in. Maximum _____ in.
 Casing Diameter _____ in. Depth _____ ft.
 Surface Seal Depth _____ ft. Number _____

F. WELL DESTRUCTION

See attached.

ENVIRONMENTAL BORINGS
 GEOTECHNICAL PROJECTS
 Number of Borings 10 Maximum
 Hole Diameter 2 in. Depth 10 ft.

G. SPECIAL CONDITIONS

ESTIMATED STARTING DATE 3-10-98
 ESTIMATED COMPLETION DATE 3-10-98

APPROVED Alton Geoscience DATE 2/26/98

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Chris Sanga DATE 2-3-98

APPENDIX C

**ANALYTICAL METHODS, OFFICIAL LABORATORY REPORTS
AND
CHAIN OF CUSTODY RECORDS**

ANALYTICAL METHODS

All analyses were performed by a state-certified laboratory in accordance with the following methods:

Sample Analysis

Soil

Total Petroleum Hydrocarbons
as Gasoline (TPH-G)

DHS Modified Method 8015

Benzene, Toluene,
Ethylbenzene, and
Total Xylenes (BTEX)

EPA Method 8020

Methyl-tertiary-butyl-ether
(MTBE)

EPA Method 8020

OFFICIAL LABORATORY REPORTS AND QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) REPORTS

Official laboratory and QA/QC reports are provided by the state-certified laboratory performing the analyses. The QA/QC reports for samples from each group of analyses completed for a single gas chromatograph calibration are provided.

CHAIN OF CUSTODY PROTOCOL

Chain of Custody protocol was followed for all samples selected for laboratory analysis. The Chain of Custody form(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis.

**LLI Sample No. WW 2889589**

Collected: 3/ 5/98 at 13:00 by JM

Submitted: 3/ 7/98 Reported: 3/23/98

Discard: 4/23/98

AB-1 Water Sample

LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50

MOBIL: 6301 San Pablo Ave. Oakland, CA

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

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
8209	BTEX, MTBE (8020)			
0776	Benzene	31.	0.3	ug/l
0777	Toluene	5.3	0.3	ug/l
0778	Ethylbenzene	79.	0.3	ug/l
0779	Total Xylenes	130.	0.6	ug/l
0780	Methyl tert-Butyl Ether	N.D.	10.	ug/l
Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for methyl t-butyl ether.				
8268	TPH-GRO (CA LUFT)			
5554	TPH-GRO (CA LUFT)	1,600.	50.	ug/l

QUALITY CONTROL REPORT

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP		MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS	
			RPD	MS							LOW	HIGH
8209	BTEX, MTBE (8020)	Batch: 98070A55										
0776	Benzene											
	0.3 ug/l	N.D.			112	113	0	103			78	138
0777	Toluene											
	0.3 ug/l	N.D.			113	110	3	102			78	118
0778	Ethylbenzene											
	0.3 ug/l	N.D.			113	110	3	101			77	119
0779	Total Xylenes											
	0.6 ug/l	N.D.			114	111	3	103			76	116
0780	Methyl tert-Butyl Ether											
	10. ug/l	N.D.			103	108	4	99			76	144
8268	TPH-GRO (CA LUFT)	Batch: 98070A55										

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

1 COPY TO Alton Geoscience

ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300
 20:35:02 D 0001 21 132857 605937
 417 0.00 00017850 ASR000

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. WW 2889589

Collected: 3/ 5/98 at 13:00 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-1 Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50
MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

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)										
50.	ug/l	N.D.		95	91	4	90			75	125

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
8209	BTEX, MTBE (8020)	119	70	130
8268	TPH-GRO (CA LUFT)	115	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	03/12/98 1434	Gordon A. Lodde
8268	TPH-GRO (CA LUFT)	CA LUFT Gasoline Method	1	03/12/98 1434	Gordon A. Lodde

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

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.





LLI Sample No. WW 2889590

Collected: 3/ 5/98 at 13:10 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-2 Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50
MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
8209	BTEX, MTBE (8020)			
0776	Benzene	N.D.	0.3	ug/l
0777	Toluene	2.9	0.3	ug/l
0778	Ethylbenzene	0.9	0.3	ug/l
0779	Total Xylenes	5.7	0.6	ug/l
0780	Methyl tert-Butyl Ether	N.D.	10.	ug/l
8268	TPH-GRO (CA LUFT)			
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: 98070A55									
0776	Benzene 0.3 ug/l	N.D.		112	113	0	103			78	138
0777	Toluene 0.3 ug/l	N.D.		113	110	3	102			78	118
0778	Ethylbenzene 0.3 ug/l	N.D.		113	110	3	101			77	119
0779	Total Xylenes 0.6 ug/l	N.D.		114	111	3	103			76	116
0780	Methyl tert-Butyl Ether 10. ug/l	N.D.		103	108	4	99			76	144
8268	TPH-GRO (CA LUFT)	Batch: 98070A55									
5554	TPH-GRO (CA LUFT) 50. ug/l	N.D.		95	91	4	90			75	125

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:35:39 D 0001 21 132857 605937
417 0.00 00017850 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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





LLI Sample No. WW 2889590

Collected: 3/ 5/98 at 13:10 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-2 Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50
MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel..

SAMPLE	SAMPLE		DUP	MS	MSD	MS	LCS	LCS	LCS	LCS LIMITS
RPT LIM	UNITS	BLANK	RPD			RPD	LCS	DUP	RPD	LOW HIGH

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
8209 BTEX, MTBE (8020)		TFT	104	LOW	HIGH
8268 TPH-GRO (CA LUFT)		TFT	94	70	130
				70	130

LABORATORY CHRONICLE

CAT			ANALYSIS		
NO	ANALYSIS NAME	METHOD	TRIAL ID	DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	03/12/98 0439	Steven A. Skiles
8268	TPH-GRO (CA LUFT)	CA LUFT Gasoline Method	1	03/12/98 0439	Steven A. Skiles

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

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. WW 2889591

Collected: 3/ 5/98 at 13:20 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-3 Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50
MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	REPORTING LIMIT	UNITS
8209	BTEX, MTBE (8020)			
0776	Benzene	680.	1.	ug/l
0777	Toluene	100.	1.	ug/l
0778	Ethylbenzene	1,500.	1.	ug/l
0779	Total Xylenes	2,300.	3.	ug/l
0780	Methyl tert-Butyl Ether	230.	10.	ug/l
The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.				
8268	TPH-GRO (CA LUFT)			
5554	TPH-GRO (CA LUFT)	6,800.	400.	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: 98070A55										
0776	Benzene											
	1. ug/l	N.D.		112	113	0	103			78	138	
0777	Toluene											
	1. ug/l	N.D.		113	110	3	102			78	118	
0778	Ethylbenzene											
	1. ug/l	N.D.		113	110	3	101			77	119	
0779	Total Xylenes											
	3. ug/l	N.D.		114	111	3	103			76	116	
0780	Methyl tert-Butyl Ether											
	10. ug/l	N.D.		103	108	4	99			76	144	

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

1 COPY TO Alton Geoscience

ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:36:18 D 0001 21 132857 605937
417 0.00 00017850 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/14/97





LLI Sample No. WW 2889591

Collected: 3/ 5/98 at 13:20 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-3 Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50
MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS LCS DUP	LCS RPD	LCS LIMITS LOW HIGH
8268 TPH-GRO (CA LUFT)		Batch: 98070A55							
5554 TPH-GRO (CA LUFT)	400. ug/l	N.D.		95	91	4	90		75 125

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
8209 BTEX, MTBE (8020)		TFT	102	70	130
8268 TPH-GRO (CA LUFT)		TFT	101	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		
			TRIAL ID	DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	03/12/98 1511	Gordon A. Lodde
8268	TPH-GRO (CA LUFT)	CA LUFT Gasoline Method	1	03/12/98 1752	Gordon A. Lodde

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

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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





LLI Sample No. WW 2889592
Collected: 3/ 5/98 at 13:30 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-4 Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50
MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
8209	BTEX, MTBE (8020)			
0776	Benzene	240.	1.	ug/l
0777	Toluene	N.D. #	20.	ug/l
0778	Ethylbenzene	260.	1.	ug/l
0779	Total Xylenes	720.	3.	ug/l
0780	Methyl tert-Butyl Ether	N.D. #	50.	ug/l
The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.				
Due to the presence of interferences near their retention times, normal reporting limits were not attained for methyl t-butyl ether and toluene.				
8268	TPH-GRO (CA LUFT)			
5554	TPH-GRO (CA LUFT)	8,500.	100.	ug/l

QUALITY CONTROL REPORT

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
8209 BTEX, MTBE (8020)		Batch: 98071A53									
0776	Benzene										
1.	ug/l	N.D.		97	96	1	92			78	138
0777	Toluene										
20.	ug/l	N.D.		100	99	1	93			78	118
0778	Ethylbenzene										
1.	ug/l	N.D.		99	98	2	93			77	119
0779	Total Xylenes										
3.	ug/l	N.D.		99	97	2	93			76	116

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:36:56 D 0001 21 132857 605937
417 0.00 00017850 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.





LLI Sample No. **WW 2889592**

Collected: 3/ 5/98 at 13:30 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-4 Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50
MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

SAMPLE RPT	SAMPLE LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
0780	Methyl tert-Butyl Ether	ug/l	N.D.		96	96	0	99			76	144
8268 TPH-GRO (CA LUFT)			Batch: 98071A53									
5554	TPH-GRO (CA LUFT)	ug/l	N.D.		79	76	3	83			75	125

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
8209 BTEX, MTBE (8020)	TFT	102	70	130
8268 TPH-GRO (CA LUFT)	TFT	109	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	03/12/98 0904	Gordon A. Lodde
8268	TPH-GRO (CA LUFT)	CA LUFT Gasoline Method	1	03/12/98 0904	Gordon A. Lodde

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

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. **WW 2889593**

Collected: 3/ 5/98 at 13:50 by JM

Submitted: 3/ 7/98 Reported: 3/23/98

Discard: 4/23/98

AB-6 Water Sample
 LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50
 MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
 Ref.

AS RECEIVED

REPORTING
 LIMIT

CAT NO.	ANALYSIS NAME	RESULTS	REPORTING LIMIT	UNITS
8209	BTEX, MTBE (8020)			
0776	Benzene	350.	2.	ug/l
0777	Toluene	N.D. #	20.	ug/l
0778	Ethylbenzene	310.	2.	ug/l
0779	Total Xylenes	100.	6.	ug/l
0780	Methyl tert-Butyl Ether	N.D. #	100.	ug/l

The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.

Due to the presence of interferences near their retention times, normal reporting limits were not attained for methyl t-butyl ether and toluene.

8268	TPH-GRO (CA LUFT)			
5554	TPH-GRO (CA LUFT)	12,000.	200.	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: 98071A53									
0776	Benzene										
2.	ug/l	N.D.		97	96	1	92			78	138
0777	Toluene										
20.	ug/l	N.D.		100	99	1	93			78	118
0778	Ethylbenzene										
2.	ug/l	N.D.		99	98	2	93			77	119
0779	Total Xylenes										
6.	ug/l	N.D.		99	97	2	93			76	116

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

1 COPY TO Alton Geoscience

ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300
 20:37:35 D 0001 21 132857 605937
 417 0.00 00017850 ASR000

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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





Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. **WW 2889593**

Collected: 3/ 5/98 at 13:50 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-6 Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50
MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
0780	Methyl tert-Butyl Ether										
100.	ug/l	N.D.		96	96	0	99			76	144

8268	TPH-GRO (CA LUFT)	Batch: 98071A53									

5554	TPH-GRO (CA LUFT)										
200.	ug/l	N.D.		79	76	3	83			75	125

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
8209	BTEX, MTBE (8020)	TFT 97	70	130
8268	TPH-GRO (CA LUFT)	TFT 102	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	03/12/98 0944	Gordon A. Lodde
8268	TPH-GRO (CA LUFT)	CA LUFT Gasoline Method	1	03/12/98 0944	Gordon A. Lodde

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

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. WW 2889594

Collected: 3/ 5/98 at 14:20 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-9 Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50
MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Ret.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
8209	BTEX, MTBE (8020)			
0776	Benzene	57.	0.3	ug/l
0777	Toluene	12.	0.3	ug/l
0778	Ethylbenzene	44.	0.3	ug/l
0779	Total Xylenes	93.	0.6	ug/l
0780	Methyl tert-Butyl Ether	N.D.	10.	ug/l
The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt.				
Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for methyl t-butyl ether.				
8268	TPH-GRO (CA LUFT)			
5554	TPH-GRO (CA LUFT)	1,000.	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: 98071A53									
0776	Benzene										
0.3	ug/l	N.D.		97	96	1	92			78	138
0777	Toluene										
0.3	ug/l	N.D.		100	99	1	93			78	118
0778	Ethylbenzene										
0.3	ug/l	N.D.		99	98	2	93			77	119
0779	Total Xylenes										
0.6	ug/l	N.D.		99	97	2	93			76	116

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:38:13 D 0001 21 132857 605937
417 0.00 00017850 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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



LLI Sample No. WW 2889594

Collected: 3/ 5/98 at 14:20 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-9 Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50
MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
0780	Methyl tert-Butyl Ether 10. ug/l	N.D.		96	96	0	99			76	144

8268	TPH-GRO (CA LUFT)	Batch: 98071A53									

5554	TPH-GRO (CA LUFT) 50. ug/l	N.D.		79	76	3	83			75	125
=====											

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
8209 BTEX, MTBE (8020)	TFT	103	70	130
8268 TPH-GRO (CA LUFT)	TFT	101	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		
			TRIAL ID	DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	03/12/98 1229	Gordon A. Lodde
8268	TPH-GRO (CA LUFT)	CA LUFT Gasoline Method	1	03/12/98 1229	Gordon A. Lodde

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

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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





LLI Sample No. WW 2889595

Collected: 3/ 5/98 at 14:30 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-10 Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50
MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
8209	BTEX, MTBE (8020)			
0776	Benzene	3.0	0.3	ug/l
0777	Toluene	1.2	0.3	ug/l
0778	Ethylbenzene	3.2	0.3	ug/l
0779	Total Xylenes	2.8	0.6	ug/l
0780	Methyl tert-Butyl Ether	N.D.	10.	ug/l
8268	TPH-GRO (CA LUFT)			
5554	TPH-GRO (CA LUFT)	200.	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: 98071A53									
0776	Benzene	N.D.		97	96	1	92			78	138
0777	Toluene	N.D.		100	99	1	93			78	118
0778	Ethylbenzene	N.D.		99	98	2	93			77	119
0779	Total Xylenes	N.D.		99	97	2	93			76	116
0780	Methyl tert-Butyl Ether	N.D.		96	96	0	99			76	144
8268 TPH-GRO (CA LUFT)		Batch: 98071A53									
5554	TPH-GRO (CA LUFT)	N.D.		79	76	3	83			75	125

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:38:51 D 0001 21 132857 605937
417 0.00 00017850 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. WW 2889595

Collected: 3/ 5/98 at 14:30 by JM

Submitted: 3/ 7/98 Reported: 3/23/98

Discard: 4/23/98

AB-10 Water Sample

LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50

MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
 Rel.

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS LCS	LCS DUP	LCS RPD	LCS LIMITS LOW HIGH
-------------------	-----------------	-------	------------	----	-----	-----------	------------	------------	------------	------------------------

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
8209	BTEX, MTBE (8020)	TFT 94	70	130
8268	TPH-GRO (CA LUFT)	TFT 93	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	03/12/98 1309	Gordon A. Lodde
8268	TPH-GRO (CA LUFT)	CA LUFT Gasoline Method	1	03/12/98 1309	Gordon A. Lodde

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

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.



Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. WW 2889596

Collected: 3/ 5/98 at 14:40 by JM

Submitted: 3/ 7/98 Reported: 3/23/98

Discard: 4/23/98

AB-11 Water Sample

LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50

MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
8209	BTEX, MTBE (8020)			
0776	Benzene	N.D.	0.3	ug/l
0777	Toluene	N.D.	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	TPH-GRO (CA LUFT)			
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 LOW	LCS HIGH	
8209	BTEX, MTBE (8020)	Batch: 98071A53										
0776	Benzene											
	0.3 ug/l	N.D.		97	96	1	92			78	138	
0777	Toluene											
	0.3 ug/l	N.D.		100	99	1	93			78	118	
0778	Ethylbenzene											
	0.3 ug/l	N.D.		99	98	2	93			77	119	
0779	Total Xylenes											
	0.6 ug/l	N.D.		99	97	2	93			76	116	
0780	Methyl tert-Butyl Ether											
	10. ug/l	N.D.		96	96	0	99			76	144	
8268	TPH-GRO (CA LUFT)	Batch: 98071A53										
5554	TPH-GRO (CA LUFT)											
	50. ug/l	N.D.		79	76	3	83			75	125	

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

1 COPY TO Alton Geoscience

ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:39:30 D 0001 21 132857 605937
417 0.00 00017850 ASR000



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

See reverse side for explanation of symbols and abbreviations.

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles





LLI Sample No. WW 2889596

Collected: 3/ 5/98 at 14:40 by JM

Submitted: 3/ 7/98 Reported: 3/23/98

Discard: 4/23/98

AB-11 Water Sample

LOC# 99-105 PRCA# 980044 PHC#2L Proj# 41-0123-50

MOBIL: 6301 San Pablo Ave. Oakland, CA

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

P.O.
 Rel.

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

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
8209	BTEX, MTBE (8020)	90	70	130
8268	TPH-GRO (CA LUFT)	84	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		
			TRIAL ID	DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	03/12/98 1348	Gordon A. Lodde
8268	TPH-GRO (CA LUFT)	CA LUFT Gasoline Method	1	03/12/98 1348	Gordon A. Lodde

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

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.





LLI Sample No. WW 2894851
Collected: 3/16/98 at 15:30 by JM

Submitted: 3/18/98 Reported: 3/24/98
Discard: 4/24/98

AB-12 Grab Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L
MOBIL: 6301 San Pablo Ave., CA

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

P.O.
Rel..

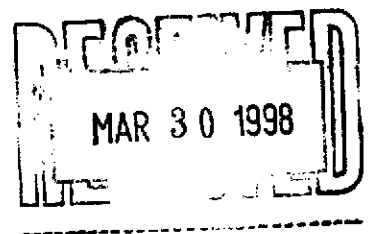
CAT NO.	ANALYSIS NAME	AS RECEIVED		UNITS
		RESULTS	REPORTING LIMIT	
8209	BTEX, MTBE (8020)			
0776	Benzene	660.	1.	ug/l
0777	Toluene	50.	1.	ug/l
0778	Ethylbenzene	630.	1.	ug/l
0779	Total Xylenes	940.	3.	ug/l
0780	Methyl tert-Butyl Ether	37.	10.	ug/l
8268	8015 Mod. for Gasoline			
5554	TPH-GRO (CA LUFT)	8,800.	100.	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: 98078A55										
0776	Benzene											
1.	ug/l	N.D.		98	111	12	99			78	138	
0777	Toluene											
1.	ug/l	N.D.		112	113	0	100			78	118	
0778	Ethylbenzene											
1.	ug/l	N.D.		113	111	2	99			77	119	
0779	Total Xylenes											
3.	ug/l	N.D.		113	112	1	100			76	116	
0780	Methyl tert-Butyl Ether											
10.	ug/l	N.D.		93	105	12	96			76	144	
8268	8015 Mod. for Gasoline	Batch: 98078A55										
5554	TPH-GRO (CA LUFT)											
100.	ug/l	N.D.		101	98	3	92			75	125	

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger



Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
21:36:07 D 0001 2 132881 607236
417 0.00 00005300 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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





LLI Sample No. WW **2894851**

Collected: 3/16/98 at 15:30 by JM

Submitted: 3/18/98 Reported: 3/24/98

Discard: 4/24/98

AB-12 Grab Water Sample

LOC# 99-105 PRCA# 980044 PHC#2L

MOBIL: 6301 San Pablo Ave., CA

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

P.O.
 Re1..

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

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
8209 BTEX, MTBE (8020)		TFT	108	70	130
8268 8015 Mod. for Gasoline		TFT	105	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	03/20/98 0207	Patrick N. Evans
8268	8015 Mod. for Gasoline	CA LUFT Gasoline Method	1	03/20/98 0207	Patrick N. Evans

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

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.



Lancaster Laboratories

A division of Thermo Analytical Inc.

LLI Sample No. WW 2894850

Collected: 3/16/98 at 15:00 by JM

Submitted: 3/18/98 Reported: 3/24/98
Discard: 4/24/98

AB-13 Grab Water Sample
LOC# 99-105 PRCA# 980044 PHC#2L
MOBIL: 6301 San Pablo Ave., CA

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

P.O.
Rel..

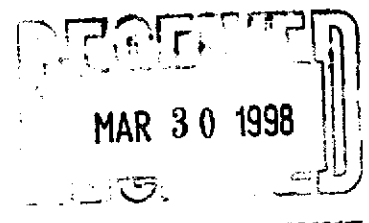
CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
8209	BTEX, MTBE (8020)			
0776	Benzene	11.	0.3	ug/l
0777	Toluene	0.8	0.3	ug/l
0778	Ethylbenzene	10.	0.3	ug/l
0779	Total Xylenes	15.	0.6	ug/l
0780	Methyl tert-Butyl Ether	N.D.	10.	ug/l
8268	8015 Mod. for Gasoline			
5554	TPH-GRO (CA LUFT)	210.	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
Batch: 98078A55											
0776	Benzene	N.D.		98	111	12	99			78	138
0777	Toluene	N.D.		112	113	0	100			78	118
0778	Ethylbenzene	N.D.		113	111	2	99			77	119
0779	Total Xylenes	N.D.		113	112	1	100			76	116
0780	Methyl tert-Butyl Ether	N.D.		93	105	12	96			76	144
Batch: 98078A55											
5554	TPH-GRO (CA LUFT)	N.D.		101	98	3	92			75	125

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger



Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
21:35:18 D 0001 2 132881 607236
417 0.00 00005300 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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





LLI Sample No. WW 2894850
 Collected: 3/16/98 at 15:00 by JM
 Submitted: 3/18/98 Reported: 3/24/98
 Discard: 4/24/98

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

P.O.
 Rel.

AB-13 Grab Water Sample
 LOC# 99-105 PRCA# 980044 PHC#2L
 MOBIL: 6301 San Pablo Ave., 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 LIMITS	
TRIAL ID	SURROGATE	RECOVERY %	LOW	HIGH
8209	BTEX, MTBE (8020)	TFT 99	70	130
8268	8015 Mod. for Gasoline	TFT 94	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		
			TRIAL ID	DATE AND TIME	ANALYST
8209	BTEX, MTBE (8020)	SW-846 8020A	1	03/20/98 0052	Patrick N. Evans
8268	8015 Mod. for Gasoline	CA LUFT Gasoline Method	1	03/20/98 0052	Patrick N. Evans

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

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles

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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. SW 2889576
Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-1 (5-6') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

Table with columns: CAT NO., ANALYSIS NAME, RESULTS, AS RECEIVED REPORTING LIMIT, UNITS. Includes data for Methyl tertiary butyl ether, TPH-GRO CA LUFT & BTEX(Soils), Benzene, Toluene, Ethylbenzene, Total Xylenes, and TPH - GRO CA LUFT (Soils).

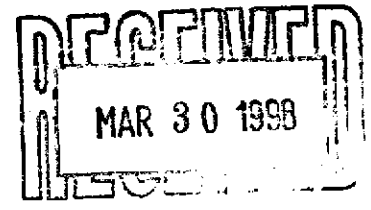
According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons).

QUALITY CONTROL REPORT

Table with columns: SAMPLE RPT LIM, SAMPLE UNITS, BLANK, DUP RPD, MS, MSD, MS RPD, LCS, LCS DUP, LCS RPD, LCS LIMITS LOW, HIGH. Includes data for Methyl tertiary butyl ether, TPH-GRO CA LUFT & BTEX(Soils), Benzene, Toluene, Ethylbenzene, Total Xylenes, and TPH - GRO CA LUFT (Soils).

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger



Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:27:29 D 0001 21 132857 605937
417 15.00 00020450 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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





Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. SW **2889576**
Collected: 3/ 5/98 by JM

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

P.O.
Rel..

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-1 (5-6') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
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
SURROGATE SUMMARY											
			TRIAL ID	SURROGATE	RECOVERY %			SURROGATE LIMITS			
						LOW			HIGH		
			2464	Methyl tertiary butyl ether	108	70			130		
			5550	TPH-GRO CA LUFT & BTEX(Soils)	108	70			130		
				1C3FB	83	70			130		

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS ID	DATE AND TIME	ANALYST
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1		03/17/98 2322	Paul Vogel
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1		03/17/98 2322	Paul Vogel

Samples were submitted in a plastic tube.

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

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.



LLI Sample No. SW **2889577**
 Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
 Discard: 4/23/98

AB-2 (4-5') Soil Sample
 LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
 Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
 Rel..

AS RECEIVED
 REPORTING
 LIMIT

CAT NO.	ANALYSIS NAME	RESULTS	LIMIT	UNITS
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg
5550	TPH-GRO CA LUFT & BTEX(Soils)			
2603	Benzene	N.D.	0.005	mg/kg
2604	Toluene	N.D.	0.005	mg/kg
2606	Ethylbenzene	N.D.	0.005	mg/kg
5327	Total Xylenes	N.D.	0.015	mg/kg
5555	TPH - GRO CA LUFT (Soils)	N.D.	1.	mg/kg

According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons).

QUALITY CONTROL REPORT

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
2464 Methyl tertiary butyl ether	1. mg/kg	Batch: 98076A33 N.D.		100	86	N.D.	15	105		70	130
5550 TPH-GRO CA LUFT & BTEX(Soils)		Batch: 98076A33									
2603 Benzene	0.005 mg/kg	N.D.		87	78	11	95			70	130
2604 Toluene	0.005 mg/kg	N.D.		83	75	10	90			70	130
2606 Ethylbenzene	0.005 mg/kg	N.D.		92	84	9	101			70	130
5327 Total Xylenes	0.015 mg/kg	N.D.		87	79	10	95			70	130
5555 TPH - GRO CA LUFT (Soils)	1. mg/kg	N.D.		96	97	1	107			70	130

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300
 20:28:09 D 0001 21 132857 605937
 417 15.00 00020450 ASR000

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. SW **2889577**
 Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
 Discard: 4/23/98

AB-2 (4-5') Soil Sample
 LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
 Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
 Ref.

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		RECOVERY %		SURROGATE LIMITS				
		TRIAL ID					LOW			HIGH	
2464	Methyl tertiary butyl ether		TFT		97		70			130	
5550	TPH-GRO CA LUFT & BTEX(Soils)		TFT		97		70			130	
			1C3FB		92		70			130	

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS			
			TRIAL ID	DATE AND TIME	ANALYST	
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1	03/18/98 0013	Stephanie A. Selis	
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1	03/18/98 0013	Stephanie A. Selis	

Samples were submitted in a plastic tube

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

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. SW 2889578

Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98

Discard: 4/23/98

AB-3 (5.5') Soil Sample
 LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
 Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
 Rel..

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg
5550	TPH-GRO CA LUFT & BTEX(Soils)			
2603	Benzene	N.D.	0.005	mg/kg
2604	Toluene	N.D.	0.005	mg/kg
2606	Ethylbenzene	N.D.	0.005	mg/kg
5327	Total Xylenes	N.D.	0.015	mg/kg
5555	TPH - GRO CA LUFT (Soils)	N.D.	1.	mg/kg

According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons).

QUALITY CONTROL REPORT											
SAMPLE RPT	SAMPLE LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW HIGH
2464	Methyl tertiary butyl ether	1.	mg/kg	Batch: 98076A33 N.D.							70 130
5550	TPH-GRO CA LUFT & BTEX(Soils)			Batch: 98076A33							
2603	Benzene	0.005	mg/kg	N.D.	87	78	11	95			70 130
2604	Toluene	0.005	mg/kg	N.D.	83	75	10	90			70 130
2606	Ethylbenzene	0.005	mg/kg	N.D.	92	84	9	101			70 130
5327	Total Xylenes	0.015	mg/kg	N.D.	87	79	10	95			70 130
5555	TPH - GRO CA LUFT (Soils)	1.	mg/kg	N.D.	96	97	1	107			70 130

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300
 20:28:43 D 0001 21 132857 605937
 417 15.00 00020450 ASR000

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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





LLI Sample No. SW **2889578**
 Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
 Discard: 4/23/98

AB-3 (5.5') Soil Sample
 LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
 Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
 Rel.

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

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
2464 Methyl tertiary butyl ether		TFT	96	70	130
5550 TPH-GRO CA LUFT & BTEX(Soils)		TFT	96	70	130
		1C3FB	93	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		
			TRIAL ID	DATE AND TIME	ANALYST
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1	03/18/98 0058	Stephanie A. Selis
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1	03/18/98 0058	Stephanie A. Selis

Samples were submitted in a plastic tube

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

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.





LLI Sample No. SW 2889579
Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-4 (5-6') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg
5550	TPH-GRO CA LUFT & BTEX(Soils)			
2603	Benzene	N.D.	0.005	mg/kg
2604	Toluene	N.D.	0.005	mg/kg
2606	Ethylbenzene	N.D. #	0.05	mg/kg
5327	Total Xylenes	N.D. #	0.080	mg/kg
5555	TPH - GRO CA LUFT (Soils)	17.	1.	mg/kg

According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons).
Due to interferences from the sample matrix, the limits of quantitation for the ethylbenzene and xylenes determinations were increased.

QUALITY CONTROL REPORT

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS		
										LOW	HIGH	
2464	Methyl tertiary butyl ether	Batch: 98076A33										
1.	mg/kg	N.D.		100	86	15	105			70	130	
5550	TPH-GRO CA LUFT & BTEX(Soils)	Batch: 98076A33										
2603	Benzene											
0.005	mg/kg	N.D.		87	78	11	95			70	130	
2604	Toluene											
0.005	mg/kg	N.D.		83	75	10	90			70	130	
2606	Ethylbenzene											
0.05	mg/kg	N.D.		92	84	9	101			70	130	
5327	Total Xylenes											
0.080	mg/kg	N.D.		87	79	10	95			70	130	
5555	TPH - GRO CA LUFT (Soils)											

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:29:17 D 0001 21 132857 605937
417 15.00 00020450 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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





LLI Sample No. SW 2889579

Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-4 (5-6') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
1.	mg/kg	N.D.		96	97	1	107			70	130

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
2464 Methyl tertiary butyl ether	TFT		88	70	130
5550 TPH-GRO CA LUFT & BTEX(Soils)	TFT		88	70	130
	1C3FB		120	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	ANALYSIS		
			TRIAL ID	DATE AND TIME	ANALYST
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1	03/18/98 0136	Stephanie A. Selis
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1	03/18/98 0136	Stephanie A. Selis

Samples were submitted in plastic containers.

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

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. SW 2889580

Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-5 (3-4') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg
Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.				

5550	TPH-GRO CA LUFT & BTEX(Soils)			

2603	Benzene	N.D. #	0.02	mg/kg
2604	Toluene	N.D. #	0.04	mg/kg
2606	Ethylbenzene	0.65	0.02	mg/kg
5327	Total Xylenes	N.D. #	2.0	mg/kg
5555	TPH - GRO CA LUFT (Soils)	160.	2.	mg/kg
According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons). Due to interferences from the sample matrix, the limits of quantitation for the above determinations were increased.				
Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.				

QUALITY CONTROL REPORT

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP		MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS		
			RPD	MS							LOW	HIGH	
2464 Methyl tertiary butyl ether	1.	mg/kg	Batch: 98076A33										
			N.D.		100	86	15	105				70	130

5550 TPH-GRO CA LUFT & BTEX(Soils)			Batch: 98076A33										
2603 Benzene	0.02	mg/kg	N.D.		87	78	11	95				70	130
2604 Toluene	0.04	mg/kg	N.D.		83	75	10	90				70	130

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

1 COPY TO Alton Geoscience

ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:29:51 D 0001 21 132857 605937
417 15.00 00020450 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.





LLI Sample No. SW 2889580

Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98

Discard: 4/23/98

AB-5 (3-4') Soil Sample
 LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
 Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
 Rel.

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
2606	Ethylbenzene										
	0.02 mg/kg	N.D.		92	84	9	101			70	130
5327	Total Xylenes										
	2.0 mg/kg	N.D.		87	79	10	95			70	130
5555	TPH - GRO CA LUFT (Soils)										
	2. mg/kg	N.D.		96	97	1	107			70	130

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
2464	Methyl tertiary butyl ether	TFT 19	70	130
5550	TPH-GRO CA LUFT & BTEX(Soils)	TFT 19	70	130
		1C3FB 124	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1	03/18/98 0445	Stephanie A. Selis
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1	03/18/98 0445	Stephanie A. Selis

Samples were submitted in plastic containers.

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

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. SW 2889581

Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-6 (5') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

AS RECEIVED

CAT NO.	ANALYSIS NAME	RESULTS	REPORTING LIMIT	UNITS
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg
Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.				

5550	TPH-GRO CA LUFT & BTEX(Soils)			

2603	Benzene	N.D. #	0.02	mg/kg
2604	Toluene	N.D. #	0.02	mg/kg
2606	Ethylbenzene	N.D. #	0.3	mg/kg
5327	Total Xylenes	N.D. #	0.60	mg/kg
5555	TPH - GRO CA LUFT (Soils)	220.	2.	mg/kg
According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons). Due to interferences from the sample matrix, the limits of quantitation for the above determinations were increased.				
Poor surrogate recoveries were observed for this sample due to the dilution needed to perform the analysis.				

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
2464 Methyl tertiary butyl ether	1.	mg/kg	Batch: 98076A33 N.D.							70	130

5550 TPH-GRO CA LUFT & BTEX(Soils)			Batch: 98076A33								

2603 Benzene	0.02	mg/kg	N.D.		87	78	11	95		70	130
2604 Toluene	0.02	mg/kg	N.D.		83	75	10	90		70	130

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:30:26 D 0001 21 132857 605937
417 15.00 00020450 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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





LLI Sample No. SW 2889581

Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-6 (5') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW	LCS LIMITS HIGH
2606	Ethylbenzene										
	0.3 mg/kg	N.D.		92	84	9	101			70	130
5327	Total Xylenes										
	0.60 mg/kg	N.D.		87	79	10	95			70	130
5555	TPH - GRO CA LUFT (Soils)										
	2. mg/kg	N.D.		96	97	1	107			70	130

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
2464 Methyl tertiary butyl ether		TFT	10	70	130
5550 TPH-GRO CA LUFT & BTEX(Soils)		TFT	10	70	130
		1C3FB	114	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1	03/18/98 0524	Stephanie A. Selis
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1	03/18/98 0524	Stephanie A. Selis

Samples were submitted in plastic containers.

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

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.



Lancaster Laboratories
A division of Thermo Analytical Inc.

LLI Sample No. SW **2889582**
Collected: 3/ 5/98 by JM

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

P.O.
Rel.

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-7 (4-5') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
Mobil: 6301 San Pablo Ave. Oakland, CA

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg
5550	TPH-GRO CA LUFT & BTEX(Soils)			
2603	Benzene	N.D.	0.005	mg/kg
2604	Toluene	N.D.	0.005	mg/kg
2606	Ethylbenzene	0.032	0.005	mg/kg
5327	Total Xylenes	N.D. #	0.080	mg/kg
5555	TPH - GRO CA LUFT (Soils)	18.	1.	mg/kg

According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons).
Due to interferences from the sample matrix, the limit of quantitation for the xylenes determination was increased.

QUALITY CONTROL REPORT

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS		
										LOW	HIGH	
2464	Methyl tertiary butyl ether	Batch: 98076A33										
1.	mg/kg	N.D.		100	86	15	105			70	130	
5550	TPH-GRO CA LUFT & BTEX(Soils)	Batch: 98076A33										
2603	Benzene											
0.005	mg/kg	N.D.		87	78	11	95			70	130	
2604	Toluene											
0.005	mg/kg	N.D.		83	75	10	90			70	130	
2606	Ethylbenzene											
0.005	mg/kg	N.D.		92	84	9	101			70	130	
5327	Total Xylenes											
0.080	mg/kg	N.D.		87	79	10	95			70	130	
5555	TPH - GRO CA LUFT (Soils)											

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:31:01 D 0001 21 132857 605937
417 15.00 00020450 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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





LLI Sample No. SW 2889582
 Collected: 3/ 5/98 by JM

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

P.O.
Rel.

Submitted: 3/ 7/98 Reported: 3/23/98
 Discard: 4/23/98

AB-7 (4-5') Soil Sample
 LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
 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
1.	mg/kg	N.D.		96	97	1	107			70	130

SURROGATE SUMMARY

2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
		TFT	89	70	130
		TFT	89	70	130
		1C3FB	123	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1	03/18/98 0603	Stephanie A. Selis
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1	03/18/98 0603	Stephanie A. Selis

Samples were submitted in plastic containers.

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

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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





LLI Sample No. SW 2889583
Collected: 3/ 5/98 by JM

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

P.O.
Rel.

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-8 (5') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
Mobil: 6301 San Pablo Ave. Oakland, CA

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg
5550	TPH-GRO CA LUFT & BTEX(Soils)			
2603	Benzene	N.D.	0.005	mg/kg
2604	Toluene	N.D.	0.005	mg/kg
2606	Ethylbenzene	N.D.	0.005	mg/kg
5327	Total Xylenes	N.D.	0.015	mg/kg
5555	TPH - GRO CA LUFT (Soils)	N.D.	1.	mg/kg

According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons).

QUALITY CONTROL REPORT

SAMPLE RPT	SAMPLE LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS	
											LOW	HIGH
2464	Methyl tertiary butyl ether	1.	mg/kg	Batch: 98077A33 N.D.	107	104	2	110			70	130
5550	TPH-GRO CA LUFT & BTEX(Soils)			Batch: 98077A33								
2603	Benzene	0.005	mg/kg	N.D.	91	90	1	104			70	130
2604	Toluene	0.005	mg/kg	N.D.	87	87	0	103			70	130
2606	Ethylbenzene	0.005	mg/kg	N.D.	97	96	1	114			70	130
5327	Total Xylenes	0.015	mg/kg	N.D.	92	91	1	108			70	130
5555	TPH - GRO CA LUFT (Soils)	1.	mg/kg	N.D.	96	95	2	101			70	130

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:31:34 D 0001 21 132857 605937
417 15.00 00020450 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.





LLI Sample No. SW 2889583
 Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
 Discard: 4/23/98

AB-8 (5') Soil Sample
 LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
 Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
 Rel.

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW HIGH
----------------	--------------	-------	---------	----	-----	--------	-----	---------	---------	---------------------

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
2464 Methyl tertiary butyl ether		TFT	91	70	130
5550 TPH-GRO CA LUFT & BTEX(Soils)		TFT	91	70	130
		1C3FB	92	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1	03/18/98 2057	Matthew T. Balmer
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1	03/18/98 2057	Matthew T. Balmer

Samples were submitted in plastic containers.

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

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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



LLI Sample No. SW 2889584

Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98

Discard: 4/23/98

AB-9 (4') Soil Sample

LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50

Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg
5550	TPH-GRO CA LUFT & BTEX(Soils)			
2603	Benzene	0.006	0.005	mg/kg
2604	Toluene	N.D.	0.005	mg/kg
2606	Ethylbenzene	0.028	0.005	mg/kg
5327	Total Xylenes	N.D. #	0.070	mg/kg
5555	TPH - GRO CA LUFT (Soils)	15.	1.	mg/kg

According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons).
Due to interferences from the sample matrix, the limit of quantitation for the xylenes determination was increased.

QUALITY CONTROL REPORT

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS HIGH
2464	Methyl tertiary butyl ether	Batch: 98076A33									
1.	mg/kg	N.D.		100	86	15	105			70	130
5550	TPH-GRO CA LUFT & BTEX(Soils)	Batch: 98076A33									
2603	Benzene										
0.005	mg/kg	N.D.		87	78	11	95			70	130
2604	Toluene										
0.005	mg/kg	N.D.		83	75	10	90			70	130
2606	Ethylbenzene										
0.005	mg/kg	N.D.		92	84	9	101			70	130
5327	Total Xylenes										
0.070	mg/kg	N.D.		87	79	10	95			70	130
5555	TPH - GRO CA LUFT (Soils)										

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

1 COPY TO Aiton Geoscience

ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:32:10 D 0001 21 132857 605937
417 15.00 00020450 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. SW 2889584
Collected: 3/ 5/98 by JM
Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

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

P.O.
Rel.

AB-9 (4') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
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
1.	mg/kg	N.D.		96	97	1	107			70	130

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
2464	Methyl tertiary butyl ether	TFT 93	70	130
5550	TPH-GRO CA LUFT & BTEX(Soils)	TFT 93	70	130
		1C3FB 113	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1	03/18/98 1159	Dawn Boley
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1	03/18/98 1159	Dawn Boley

Samples were submitted in plastic containers.

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

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.





LLI Sample No. SW 2889585

Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-10 (4') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg
5550	TPH-GRO CA LUFT & BTEX(Soils)			
2603	Benzene	N.D.	0.005	mg/kg
2604	Toluene	N.D.	0.005	mg/kg
2606	Ethylbenzene	N.D.	0.005	mg/kg
5327	Total Xylenes	N.D.	0.015	mg/kg
5555	TPH - GRO CA LUFT (Soils)	N.D.	1.	mg/kg

According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons).

QUALITY CONTROL REPORT											
SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LCS LIMITS HIGH
2464	Methyl tertiary butyl ether	Batch: 98076A33									
1.	mg/kg	N.D.		100	86	15	105			70	130
5550	TPH-GRO CA LUFT & BTEX(Soils)	Batch: 98076A33									
2603	Benzene										
0.005	mg/kg	N.D.		87	78	11	95			70	130
2604	Toluene										
0.005	mg/kg	N.D.		83	75	10	90			70	130
2606	Ethylbenzene										
0.005	mg/kg	N.D.		92	84	9	101			70	130
5327	Total Xylenes										
0.015	mg/kg	N.D.		87	79	10	95			70	130
5555	TPH - GRO CA LUFT (Soils)										
1.	mg/kg	N.D.		96	97	1	107			70	130

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:32:43 D 0001 21 132857 605937
417 15.00 00020450 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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





LLI Sample No. SW 2889585
 Collected: 3/ 5/98 by JM
 Submitted: 3/ 7/98 Reported: 3/23/98
 Discard: 4/23/98

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

P.O.
Rel.

AB-10 (4') Soil Sample
 LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
 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 HIGH
----------------	--------------	-------	---------	----	-----	--------	-----	---------	---------	---------------------

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
2464 Methyl tertiary butyl ether		TFT	107	70	130
5550 TPH-GRO CA LUFT & BTEX(Soils)		TFT	107	70	130
		1C3FB	84	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS ID	DATE AND TIME	ANALYST
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1		03/18/98 1301	Dawn Boley
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1		03/18/98 1301	Dawn Boley

Samples were submitted in plastic containers.

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

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.





LLI Sample No. SW 2889586
Collected: 3/ 5/98 by JM

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

P.O.
Rel.

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-11 (5-6') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
Mobil: 6301 San Pablo Ave. Oakland, CA

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg
5550	TPH-GRO CA LUFT & BTEX(Soils)			
2603	Benzene	N.D.	0.005	mg/kg
2604	Toluene	N.D.	0.005	mg/kg
2606	Ethylbenzene	N.D.	0.005	mg/kg
5327	Total Xylenes	N.D.	0.015	mg/kg
5555	TPH - GRO CA LUFT (Soils)	3.7	1.	mg/kg

According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons).

QUALITY CONTROL REPORT

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS		
										LOW	HIGH	
2464 Methyl tertiary butyl ether	1.	mg/kg	Batch: 98076A33	N.D.	100	86	15	105			70	130
5550 TPH-GRO CA LUFT & BTEX(Soils)			Batch: 98076A33									
2603 Benzene	0.005	mg/kg	N.D.	87	78	11	95				70	130
2604 Toluene	0.005	mg/kg	N.D.	83	75	10	90				70	130
2606 Ethylbenzene	0.005	mg/kg	N.D.	92	84	9	101				70	130
5327 Total Xylenes	0.015	mg/kg	N.D.	87	79	10	95				70	130
5555 TPH - GRO CA LUFT (Soils)	1.	mg/kg	N.D.	96	97	1	107				70	130

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:33:18 D 0001 21 132857 605937
417 15.00 00020450 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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





L&L Sample No. SW **2889586**
 Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
 Discard: 4/23/98

AB-11 (5-6') Soil Sample
 LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
 Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
 Rel.:

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS LCS	LCS DUP	LCS RPD	LCS LIMITS LOW HIGH
----------------	--------------	-------	---------	----	-----	--------	---------	---------	---------	---------------------

SURROGATE SUMMARY

TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
			LOW	HIGH
2464	Methyl tertiary butyl ether	84	70	130
5550	TPH-GRO CA LUFT & BTEX(Soils)	84	70	130
	1C3FB	106	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS DATE AND TIME	ANALYST
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1	03/18/98 1409	Dawn Boley
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1	03/18/98 1409	Dawn Boley

Samples were submitted in plastic containers.

*=Laboratory Method Detection Limit exceeded State Regulatory Limit
 ?.=Not detected at or above the Reporting Limit

lot

as
 SED

LE FOR
 OF
 DRIES
 ept no
 shall be
 Lancaster

Questions? Contact your Client Services Representative
 Missa A. McDermott at (717) 656-2300

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles

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





LLI Sample No. SW 2889587

Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
Discard: 4/23/98

AB-12 (5-6') Soil Sample
LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg
5550	TPH-GRO CA LUFT & BTEX(Soils)			
2603	Benzene	N.D.	0.005	mg/kg
2604	Toluene	N.D.	0.005	mg/kg
2606	Ethylbenzene	N.D.	0.005	mg/kg
5327	Total Xylenes	N.D.	0.015	mg/kg
5555	TPH - GRO CA LUFT (Soils)	N.D.	1.	mg/kg

According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons).

QUALITY CONTROL REPORT

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS	
										LOW	HIGH
2464 Methyl tertiary butyl ether	1. mg/kg	Batch: 98076A33 N.D.		100	86	15	105			70	130
5550 TPH-GRO CA LUFT & BTEX(Soils)		Batch: 98076A33									
2603 Benzene	0.005 mg/kg	N.D.		87	78	11	95			70	130
2604 Toluene	0.005 mg/kg	N.D.		83	75	10	90			70	130
2606 Ethylbenzene	0.005 mg/kg	N.D.		92	84	9	101			70	130
5327 Total Xylenes	0.015 mg/kg	N.D.		87	79	10	95			70	130
5555 TPH - GRO CA LUFT (Soils)	1. mg/kg	N.D.		96	97	1	107			70	130

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
Melissa A. McDermott at (717) 656-2300
20:33:53 D 0001 21 132857 605937
417 15.00 00020450 ASR000

Respectfully Submitted
Michele McClarin, B.A.
Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.





LLI Sample No. SW **2889587**
 Collected: 3/ 5/98 by JM

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

P.O.
 Rel.

Submitted: 3/ 7/98 Reported: 3/23/98
 Discard: 4/23/98

AB-12 (5-6') Soil Sample
 LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
 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
SURROGATE SUMMARY											
			TRIAL ID	SURROGATE	RECOVERY %			SURROGATE LIMITS			
						LOW			HIGH		
2464 Methyl tertiary butyl ether			TFT		85	70			130		
5550 TPH-GRO CA LUFT & BTEX(Soils)			TFT		85	70			130		
			1C3FB		104	70			130		

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	ANALYSIS ID	DATE AND TIME	ANALYST
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1		03/18/98 1456	Dawn Boley
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1		03/18/98 1456	Dawn Boley

Samples were submitted in plastic containers.

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

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. SW 2889588

Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98

Discard: 4/23/98

AB-13 (5-6') Soil Sample
 LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
 Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
 Rel.

CAT NO.	ANALYSIS NAME	AS RECEIVED		
		RESULTS	REPORTING LIMIT	UNITS
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg
5550	TPH-GRO CA LUFT & BTEX(Soils)			
2603	Benzene	N.D.	0.005	mg/kg
2604	Toluene	N.D.	0.005	mg/kg
2606	Ethylbenzene	N.D.	0.005	mg/kg
5327	Total Xylenes	N.D.	0.015	mg/kg
5555	TPH - GRO CA LUFT (Soils)	N.D.	1.	mg/kg

According to the California LUFT Protocol, the quantitation for Gasoline Range Organics was performed by peak area comparison of the sample pattern to that of a gasoline reference standard (between C6 and C12 normal hydrocarbons).

QUALITY CONTROL REPORT

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD			MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS	
			MS	MSD	MS					MSD	LOW
2464	Methyl tertiary butyl ether	Batch: 98076A33									
1.	mg/kg	N.D.	100	86	15	105				70	130
5550	TPH-GRO CA LUFT & BTEX(Soils)	Batch: 98076A33									
2603	Benzene	N.D.	87	78	11	95				70	130
0.005	mg/kg										
2604	Toluene	N.D.	83	75	10	90				70	130
0.005	mg/kg										
2606	Ethylbenzene	N.D.	92	84	9	101				70	130
0.005	mg/kg										
5327	Total Xylenes	N.D.	87	79	10	95				70	130
0.015	mg/kg										
5555	TPH - GRO CA LUFT (Soils)	N.D.	96	97	1	107				70	130
1.	mg/kg										

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

1 COPY TO Alton Geoscience ATTN: Tom Seeliger

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300
 20:34:27 D 0001 21 132857 605937
 417 15.00 00020450 ASR000

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



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

See reverse side for explanation of symbols and abbreviations.

2216 Rev. 8/4/97





LLI Sample No. SW 2889588
 Collected: 3/ 5/98 by JM

Submitted: 3/ 7/98 Reported: 3/23/98
 Discard: 4/23/98

AB-13 (5-6') Soil Sample
 LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50
 Mobil: 6301 San Pablo Ave. Oakland, CA

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

P.O.
 Ref.

SAMPLE RPT LIM	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LIMITS LOW HIGH
----------------	--------------	-------	---------	----	-----	--------	-----	---------	---------	---------------------

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LIMITS	
				LOW	HIGH
2464 Methyl tertiary butyl ether		TFT	96	70	130
5550 TPH-GRO CA LUFT & BTEX(Soils)		TFT	96	70	130
		1C3FB	94	70	130

LABORATORY CHRONICLE

CAT NO	ANALYSIS NAME	METHOD	TRIAL ID	DATE AND TIME	ANALYST
2464	Methyl tertiary butyl ether	SW-846 8020A, mod.	1	03/18/98 1554	Matthew T. Balmer
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1	03/18/98 1554	Matthew T. Balmer

Samples were submitted in plastic containers.

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

Questions? Contact your Client Services Representative
 Melissa A. McDermott at (717) 656-2300



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

Respectfully Submitted
 Michele McClarin, B.A.
 Manager, Volatiles



2 of 3

Mobil Western Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 9728 Sample #: 2889576-96

Please print.

SCR#: _____

Mobil Consultant/Office: Alton Geoscience
 Consultant Prj. Mgr: Yan Seeliger Prj. #: 41-0123-50
 Consultant Phone #: (510) 606-9150 Fax #: (510) 606-9260
 Location Code #: 99105 PRCA/AFE/Release #: 960155
 Commitment Code #: _____ Phase Code: ZL
 Site Address: 6701 San Pablo, Oakland State: CA
 Sampler: Jane Madden
 Mobil Engineer: Cherine Foutch

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total # of Containers	Analyses Requested										Remarks	Temperature of samples upon receipt (if requested)		
										TPH-G/BTEX	MTBE*												
AB-11-(5-6') AB-11	3-5-99				X				1	X	X												
AB-12-(5-6') AB-12					X				1	X	X												
AB-13-(5-6') A-13					X				1	X	X												
1 AB-1		1300				X			4	X	X												
2 AB-2		1310				X			4	X	X												
3 AB-3		1320				X			4	X	X												
4 AB-4		1340				X			4	X	X												3.0°C
5 AB-6		1400				X			4	X	X												
6 AB-9		1430				X			4	X	X												
7 AB-10		1440				X			4	X	X												

Turnaround Time Requested (TAT) (please circle):
MOBIL STD. TAT 72 hour 48 hour
 24 hour other _____ day

Data Package Options (please circle if requested) SDG Complete? Yes No
 QC Summary GLP
 Type I (Tier I) Other
 Type III (NJ Red. Del.) Disk
 Type IV (CLP)
 Type VI (Raw Data)
 WIP
 Site-specific QC required? Yes No (If yes, indicate QC sample and submit triplicate volume.)
 Internal Chain of Custody required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time



For Lancaster Laboratories use only
 Acct. #: 9728 Sample #: 2894850-51

Please print.

SCR#: _____

Mobil Consultant/Office: <u>Alton Geoscience / Livermore</u>				Matrix		Analyses Requested <small>List total number of containers in the box under each analysis.</small>												Remarks	Temperature of samples upon receipt (if requested)
Consultant Prj. Mgr: <u>Tom Seeliger</u> Prj. #: <u>41-0123-50</u>																			
Consultant Phone #: <u>(510) 666-9150</u> Fax #: <u>(510) 666-9260</u>				<input type="checkbox"/> Potable <input type="checkbox"/> NPDES		Total # of Containers <u>TPH-6 / BTEX</u> <u>MTBE</u>													
Location Code #: <u>99-105</u> PRCA/AFE/Release #: <u>960135</u>																			
Commitment Code #: _____ Phase Code: <u>L2</u>				<input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Oil <input type="checkbox"/> Air															
Site Address: <u>6301 San Pablo Ave</u> State: <u>CA</u>																			
Sampler: <u>Jake Madde</u>				Grab Composite															
Mobil Engineer: <u>Cherine fouch</u>																			
Sample Identification		Date Collected	Time Collected	Grab	Composite													Remarks	Temperature of samples upon receipt (if requested)
<u>AB-13</u>		<u>3-16-98</u>	<u>500</u>	<u>X</u>														<u>Temp 20C</u>	<u>200</u>
<u>AB-12</u>		<u>3-16-98</u>	<u>1530</u>	<u>X</u>														<u>TB 3-18-98</u>	<u>↓</u>

Turnaround Time Requested (TAT) (please circle): <input checked="" type="radio"/> MOBIL STD. TAT 72 hour 48 hour 24 hour other ____ day			Relinquished by: <u>[Signature]</u>		Date	Time	Received by:		Date	Time		
			Relinquished by:		Date	Time	Received by:		Date	Time		
Data Package Options (please circle if requested)			SDG Complete? Yes No		Relinquished by:		Date	Time	Received by:		Date	Time
QC Summary GLP Type I (Tier I) Other Type III (NJ Red. Def.) Disk Type IV (CLP) Type VI (Raw Data) WIP			Site-specific QC required? Yes No (If yes, indicate QC sample and submit triplicate volume.) Internal Chain of Custody required? Yes No		Relinquished by:		Date	Time	Received by:		Date	Time
			Relinquished by:		Date	Time	Received by: <u>[Signature]</u>		Date	Time		