

5(18)

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;\.,,\99105.ssa

cc: Ms. Cherine Foutch, Mobil

Mr. Chuck Headlee, RWQCB

200

Ms. Connie Lamb -

Darodo Terrace SE 94112

30A Lindbergh Avenue Livermore, California 94550 (510) 606-9150 • FAX (510) 606-9260 98 JUL 20 PH 4: 25

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

Bv:

Jacob Madden Senior Staff Geologist

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

> ALTON GEOSCIENCE 30A Lindbergh Avenue Livermore, California 94611

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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

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 GeoprobeTM 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 GeoprobeTM, 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

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

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

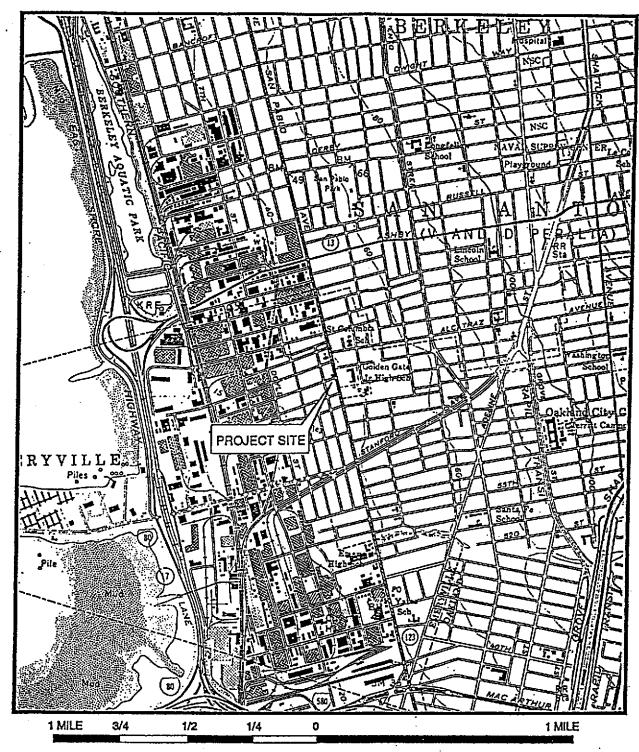
- Alton Geoscience, 1997, Workplan For Additional Assessment Activities, 6301 San Pablo Avenue, Oakland, California, October 13.
- Alisto Engineering Group, 1996, Additional Tank Closure and Preliminary Site Investigation Report, 6301 San Pablo Avenue, Oakland, California, April 15.
- ACDEHS, 1994, Letter- 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

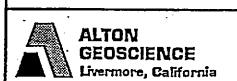
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Oakland West Quadrangle
California
7.5 Minute Series

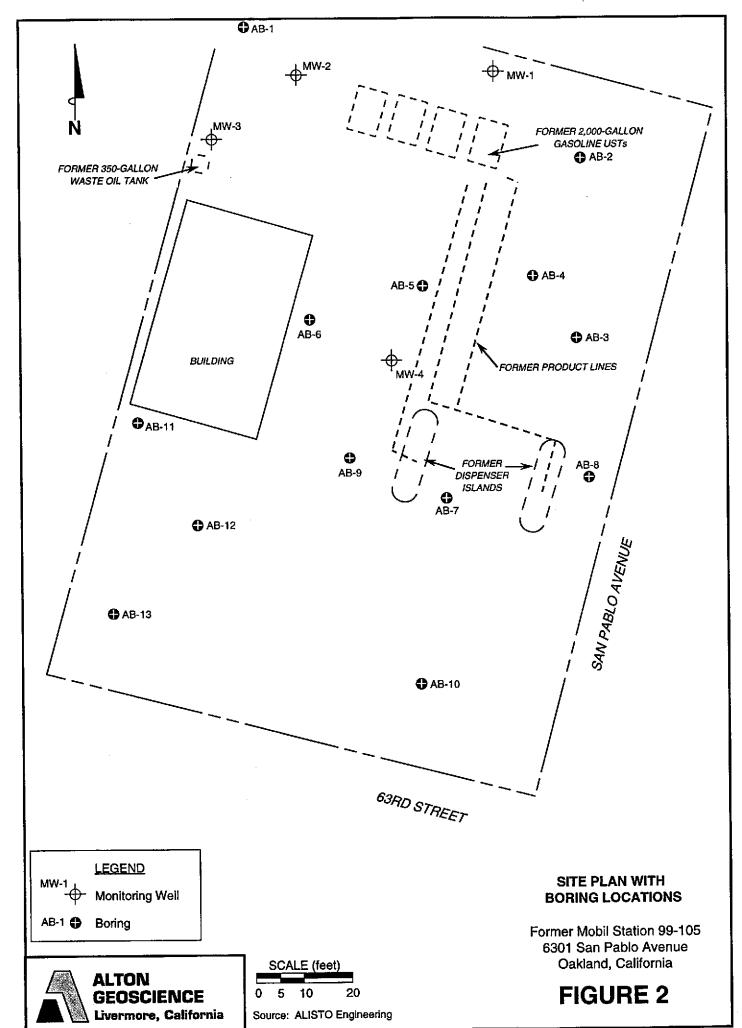


VICINITY MAP

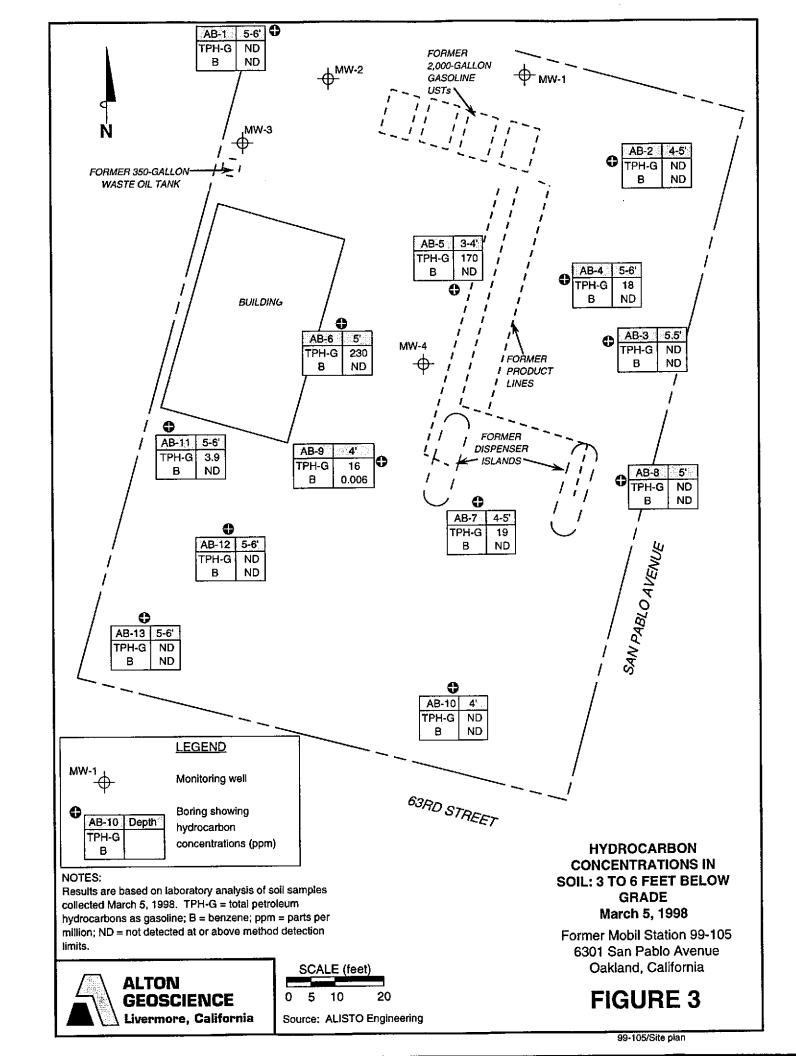
Former Mobil Station 99-105 6301 San Pablo Avenue Oakland, California

FIGURE 1





99-105/Site plan



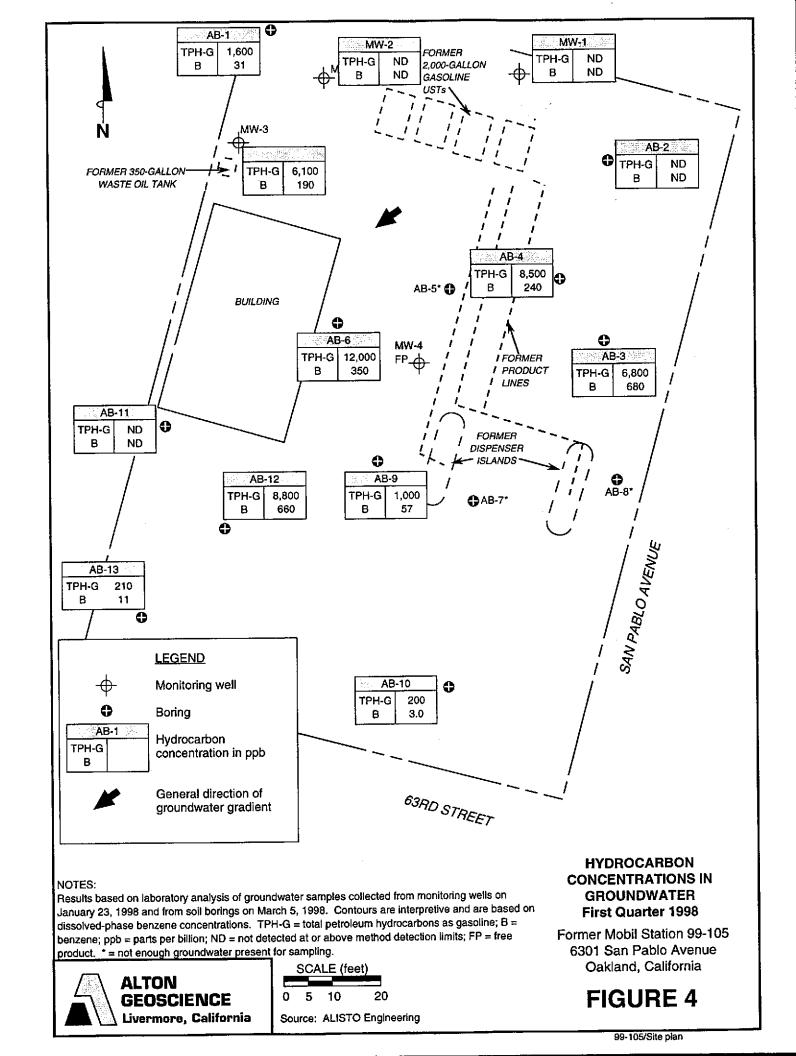


Table 1 Summary of Soil Sample Analysis

Former Mobil Station 99-105

						Jii Ottation CC 1	Ethyl-	Total			
Sample ID	Depth (feet)	Date	TPH-G (ppm)	TPH-D (ppm)	Benzene (ppm)	Toluene (ppm)	benzene (ppm)	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		NĐ	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

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)
4'	03/05/98	ND	_	ND	ND	ND	ND	_	_	ND
5-6'	03/05/98	3.9		ND	ND	ND	ND	_	_	ND
5-6'	03/16/98	ND		ND	ND	ND	ND	_	_	ND
5-6'	03/16/98	ND		ND	ND	ND	ND	_	· <u> </u>	ND
	(feet) 4' 5-6'	(feet) Date 4' 03/05/98 5-6' 03/05/98 5-6' 03/16/98	(feet) Date (ppm) 4' 03/05/98 ND 5-6' 03/05/98 3.9 5-6' 03/16/98 ND	(feet) Date (ppm) (ppm) 4' 03/05/98 ND — 5-6' 03/05/98 3.9 — 5-6' 03/16/98 ND —	(feet) Date (ppm) (ppm) (ppm) 4' 03/05/98 ND — ND 5-6' 03/05/98 3.9 — ND 5-6' 03/16/98 ND — ND	(feet) Date (ppm) (ppm) (ppm) 4' 03/05/98 ND — ND ND 5-6' 03/05/98 3.9 — ND ND 5-6' 03/16/98 ND — ND ND	Depth (feet) TPH-G (ppm) TPH-D (ppm) Benzene (ppm) Toluene (ppm) benzene (ppm) 4' 03/05/98 ND — ND ND ND 5-6' 03/05/98 3.9 — ND ND ND 5-6' 03/16/98 ND — ND ND ND	Depth (feet) TPH-G (ppm) TPH-D (ppm) Benzene (ppm) Toluene (ppm) William Xylenes (ppm) 4' 03/05/98 ND — ND ND ND ND 5-6' 03/05/98 3.9 — ND ND ND ND 5-6' 03/16/98 ND — ND ND ND ND	Depth (feet) TPH-G (ppm) TPH-D (ppm) Benzene (ppm) Toluene (ppm) benzene (ppm) Xylenes (ppm) TOG (ppm) 4' 03/05/98 ND — ND ND ND ND ND — 5-6' 03/05/98 3.9 — ND ND ND ND — 5-6' 03/16/98 ND — ND ND ND ND ND —	Depth (feet) TPH-G (ppm) TPH-D (ppm) Benzene (ppm) Toluene (ppm) benzene (ppm) Xylenes (ppm) TOG (ppm) Lead (ppm) 4' 03/05/98 ND — ND ND ND ND — — 5-6' 03/05/98 3.9 — ND ND ND ND — — 5-6' 03/16/98 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

Table 2
Summary of Groundwater Sample Analysis

Former Mobil Station 99-105

		Top of Casing	Depth to	Groundwater	Product	ormer Mobil S				Ethyl-	Total	MTBE	MTBE	TOG	Lead
		Elevation	Water	Elevation	Thickness	TPH-G	TPH-D	Benzene	Toluene	benzene	Xylenes	8020	8240 or 8260	(ppb)	(ppb)
	B.4-				(feet)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(FF-)	(FF-)
Well ID	Date	(feet)	(feet)	(feet)	(leer)	(bbn)	(bbn)	(bbp)	(hbn)	(bbp)	(PPD)	(550)	(РРИ)		
TW-1	01/04/96	_	6.00	_	0.00	ND	700	ND	ND	ND	ND	_	_		_
WW-1	01/04/96	_	3.00	_	0.00	ND	_	ND	ND	ND	ND		_	ND	_
MW-1	03/14/96	32.79	4.50	28.29	0.00	610	450	0.75	0.54	1.5	59	_	_	_	ND
MW-1	05/21/96	32.79	5.64	27.15	0.00	ND	ND	ND	ND	ND	ND	_	_	-	_
MW-1	08/13/96	32.79	9.76	23.03	0.00	ND	ND	ND	ND	ND	ND	_	_	_	
MW-1	11/08/96	32.79	10.24	22.55	0.00	ND	ND	ND	0.92	ND	2.1	ND	_		_
MW-1	01/31/97	32.79	3.83	28.96	0.00	ND	ND	ND	0.85	ND	ND	2.6	ND	_	_
MW-1	04/22/97	32.79	9.14	23,65	0.00	ND	ND	ND	ND	ND	ND	ND	_		_
MVV-1†	07/29/97	32.79	10.18	22.61	0.00	ND	60****	0.84	0.95	ND	1.6	36	_	_	_
MVV-1†	10/09/97	32.79	10.46	22.33	0.00	ND	56****	ND	ND	ND	ND	ND	_	_	
MW-1†	01/23/98	32.79	3.95	28.84	0.00	ND	33	ND	ND	ND	ND	ND	_	_	_
MW-2	03/14/96	32.80	4.51	28.29	0.00	560	250	2.0	0,96	4.3	11	4	_	_	ND
MW-2	05/21/96	32.80	5.65	27.15	0.00	730	560	5.1	1.4	6.7	5.9	_		_	_
MW-2	08/13/96	32.80	10.14	22.66	0.00	490	380*	25	3.5	7.2	13	_	_	_	
MW-2	11/08/96	32.80	10.70	22.10	0.00	520	160***	80	2.7	14	66	6.1	_		_
MW-2	01/31/97	32,80	3.84	28,96	0.00	74	130*	ND	ND	ND	ND	ND	•	_	_
MW-2	04/22/97	32.80	9.61	23.19	0.00	260	430	2.7	ND	2.5	ND	ND	_	_	_
MW-2†	07/29/97	32.80	10.53	22.27	0.00	320	150*****	28	1.2	10	ND	ND		-	_
MW-2†	10/09/97	32.80	10.87	21.93	0.00	460	160*	43	2.8	2.0	2.6	2.6	_	-	_
MW-2†	01/23/98	32.80	3.75	29.05	0.00	ND	54	ND	ND	МD	ND	ND	_	_	
MW-3	03/14/96	32.80	9.55	23,25	0.00	4,200	1,200	220	30	140	520	-	_	ND	ND
MW-3	05/21/96	32.80	10.16	22.64	0.00	8,500	2,800	710	110	440	1,700			_	_
MW-3	08/13/96	32.80	1 1.18	21.62	0.00	5,000	2,300**	430	ND	200	360		_	_	
MW-3	11/08/96	32.80	11.51	21.29	0.00	8,400	2,900*	890	82	790	1,700	73	ND	_	
MW-3	01/31/97	32,80	7.90	24,90	0.00	16,000	7,500*	660	85	960	1,800	ND	_	_	_
MW-3	04/22/97	32.80	10.64	22.16	0.00	8,000	2,700	340	33	400	490	200	ND	_	_
MW-3†	07/29/97	32.80	11.36	21.44	0.00	9,800	2,300*	330	ND	530	530	ND	_	_	_
MW-3†	10/09/97	32.80	11.52	21.28	0.00	7,300	2,600*	300	ND	430	460	270	ND	-	_
MW-3†	01/23/98	32.80	7.50	25,30	0.00	6,100	2,300	190	23	330	320	ND.		-	_
MW-4	03/14/96	31.50	4.92	26.58	0.00	12,000	3,500	2,200	140	880	2,000		_	_	ND
MW-4	05/21/96	31.50	8,60	22.90	0.00	11,000	4,200	1,700	ND	930	470	_	_	_	_
MW-4	08/13/96	31.50	10.02	21.50	0.02	_	_	_	_	_	_	_	_	_	_
MW-4	11/08/96	31.50	10.28	21.33	0.15	_	-	_	_		_	_	_	_	_
MW-4	01/31/97	31.50	7.88	23.62	0.00	23,000	8,200	980	68	1,100	1,400	ND		_	_
MW-4	04/22/97	31,50	7.40	24.10	0.00	8,800	4,500	950	ND	610	130	ND	_	_	-
MW-4	07/29/97	31.50	9.85	21.74	0.12		_	_	-	_		_		_	_
MW-4	10/09/97	31.50	10.35	21.38	0.30	_		-	_	_	-	_	-	_	_
MW-4	01/23/98	31.50	4.68	27.51	0.92	_	_	_	_	_		_		_	_

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	8.0	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 GeoprobeTM 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 GeoprobeTM 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/GeoprobeTM 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 DIVIS	IONS			TYPICAL NAMES
		CLEAN GRAVELS WITH	GW		WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
ω <u>₹</u>	GRAVELS MORE THAN HALF	LITTLE OR NO FINES	GP		POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES
COARSE-GRAINED SOILS MORE THAN HALF IS LARGER THAN No. 200 SIEVE	COARSE FRACTION IS LARGER THAN No. 4	GRAVELS WITH OVER	GM		SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
SLABO	SIEVE SIZE	12% FINES	GC		CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
GRAI HALFI	72	CLEAN SANDS WITH	sw		WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
AHAN N	SANDS	LITTLE OR NO FINES	SP		POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
SH SH	MORE THAN HALF COARSE FRACTION IS SMALLER THAN No. 4	SANDS WITH OVER	SM		SILTY SANDS, SAND-SILT MIXTURES
	SIEVE SIZE	12% FINES	sc		CLAYEY SANDS, SAND-CLAY MIXTURES
HAN			ML		INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
OILS	SILTS AN		CL		INORGANIC CLAYS OF LOW- TO MEDIUM-PLASTICITY, GRAYELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
S SMAI SIEVE	LIQUID LIMIT I	LESS THAN 50	OL		ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
FINE-GRAINED SOILS MORE THAN HALF IS SMALLER THAN No, 200 SIEVE			мн		INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FIN SAND OR SILTY SOILS
INE-C TAAN		ID CLAYS	СН		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
MORE	LIQUID LIMIT GF	REATER THAN 50	ОН		ORGANIC CLAYS OF MEDIUM- TO HIGH-PLASTICITY, ORGANIC SILTS
12	HIGHLY ORG	BANIC SOILS	Pt	- Landard	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

SYMBOLS AND NOTES

T 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 (ug/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



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6301 San Pablo Avenue APPROVE						APPROVED BY:				
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DATE DRILLED: 3/5/98 PROJECT NO.: 41-0123 Former Mobil Station 99-105 LOGGED BY: J. Madden LOCATION: APPROVED BY: M. Katen, RG 6301 San Pablo Avenue V & W Drilling Oakland, California DRILLING CO.: DEPTH (feet below grade) DRILLING METHOD: 1.5-inch Diameter Direct-Push Geoprobe BLOWS PER 6 INCHES SAMPLER TYPE: 4-inch Macro-Core Sampler **BORING** LITHOLOGY TPH (ppm) TOTAL DEPTH: 10.0 feet DEPTH TO WATER: 8.5 feet **DETAIL** uscs 717 DESCRIPTION Cement CLAYEY SILT: mottled greenish brown, stiff, moist, low plasticity, <5% minor gravei. 500 3.9 20 35 40 **ALTON AB-11** LOG OF EXPLORATORY BORING **GEOSCIENCE** PAGE 1 OF 1

PROJECT NO.: 41-0123 LOCATION: Former Mobil Station 99-105 DATE DRILLED: LOGGED BY:							3/5/98 J. Madden				
6301 San Pablo Avenue LOGGED BY: APPROVED BY:						_		ten, RG			
Oakland, California Oakland, California DRILLING CO.:							_	Drilling			
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	LOCA	TION	_			LOGGED BY:	J. Madden Y: M. Katen, RG				
6301 San Pablo Avenue APPROVED BY:							_	Drilling			
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APPENDIX B

BORING PERMIT

SO.9 JATOT



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5373 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

*		
DRILL	LING PERMIT APPLICATION	

FOR APPLICANT TO COMPLETE	for office use
LOCATION OF PROJECT 6301 Son Pable	PERMIT NUMBER 98WRO91 WELL NUMBER APN
California Coordinates Source ft. Accuracy ±ft.	PERMIT CONDITIONS
APN	Circled Permit Requirements Apply
CLIENT Name	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. 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. C. GROUNDWATER MONITORING WELLS 1. Minimum surface seal thickness is two inches of cement grout placed by tremic. 2. Minimum scal depth for menitoring wells is the maximum depth practicable or 20 feet. D. GEOTECHNICAL Brokfill bore hole with compacted cuttings of heavy
DRILLER'S LICENSE NO. 257 - 720404	benionite and upper two feet with compacted material. In areas of known or suspected contamination, tremied comment grout shall be used in place of compacted cuttings.
WELL PROJECTS Drill Hole Diameterin. Maximum Casing Diameterin. Depthft. Surface Seal Depthft. Number	E. CATHODIC Fill hole above anode zone with concrete placed by tremie F. WELL DESTRUCTION See attached.
Environ Mental Bornass GEOTECHNICAL PROJECTS Number of Borings 10 Maximum Hole Diameter 2 in. Depth 10 st.	G. SPECIAL CONDITIONS
ESTIMATED STARTING DATE3-10-98	121

BLYON GEOSCIENCE

APPLICANT'S SIGNATURE

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

4/23/98 Discard:

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.

ott: OSOI Sall Fablo Ave.	Vaktanu, CA										
		AS RECE		ì							
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Methyl tert-Butyl Ether Due to the presence of reporting limit was not	an interferent near attained for methyl	130. N.D. its retention t-butyl eth	10. on time, th mer.	ug/l ne normal	-,-,-, ,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,	.=.=.=	.=	=-=-		-	
TPH-GRO (CA LUFT)											
TPH-GRO (CA LUFT)	1,0	500.	50.	ug/1	= = = = = = = = = = = = = = = = = = = =		=.=.=.	=.=.=.		.=.= . =.	
,											
	BLANK			MSD MSD	MS RPD	LCS	LCS DUP	LCS RPD			
MTBE (8020)	Batch: 98070A55										
3 ug/1	N.D.		112	2 113	0	103			78	138	
3 ug/1	N.D.		113	110	3	102			78	118	
3 ug/1	N.D.		113	3 110	3	101			77	119	
ua/1	N.D.		114	111	3	103			76	116	
	ANALYSIS NAME BTEX, MTBE (8020) Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether Due to the presence of reporting limit was not TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) APLE SAMPLE LIM UNITS MTBE (8020) enzene 3 ug/1 bluene 3 ug/1 chylbenzene	BTEX, MTBE (8020) Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether Due to the presence of an interferent near reporting limit was not attained for methyl TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) 1,6 MPLE SAMPLE LIM UNITS BLANK MTBE (8020) Batch: 98070A55 Enzene B ug/l N.D. Chylbenzene Chylbenzene Chylbenses Ch	ANALYSIS NAME RESULTS BTEX, MTBE (8020) Benzene 31. Toluene 5.3 Ethylbenzene 79. Total Xylenes 130. Methyl tert-Butyl Ether N.D. Due to the presence of an interferent near its retentic reporting limit was not attained for methyl t-butyl ether TPH-GRO (CA LUFT) 1,600. TPH-GRO (CA LUFT) 1,600. QUALITY (MPLE SAMPLE ILIM UNITS BLANK FOR MTBE (8020) Batch: 98070A55 Enzene 3 ug/l N.D. Chylbenzene 4 ug/l N.D. Chylbenzene 5 ug/l N.D. Chylbenzene 6 ug/l N.D. Chylbenzene 6 ug/l N.D. Chylbenzene 7 ug/l N.D. Chylbenzene 8 ug/l N.D. Chylbenzene 9 ug/l N.D. Ch	AS RECEIVED REPORTING RESULTS LIMIT BTEX, MTBE (8020) Benzene 31. 0.3 Toluene 5.3 0.3 Ethylbenzene 79. 0.3 Total Xylenes 130. 0.6 Methyl tert-Butyl Ether N.D. 10. Due to the presence of an interferent near its retention time, the reporting limit was not attained for methyl t-butyl ether. TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) 1,600. 50. QUALITY CONTROL REF LIM UNITS BLANK RPD MS MTBE (8020) Batch: 98070A55 PRIZE SAMPLE DUP LIM UNITS BLANK RPD MS MTBE (8020) Batch: 98070A55 PRIZE SAMPLE DUP LIM UNITS BLANK RPD MS MTBE (8020) Batch: 98070A55 PRIZE SAMPLE DUP LIM UNITS BLANK RPD MS MTBE (8020) Batch: 98070A55 PRIZE SAMPLE DUP LIM UNITS BLANK RPD MS MTBE (8020) Batch: 98070A55	ANALYSIS NAME RESULTS REPORTING REPORTING RESULTS LIMIT UNITS BTEX, MTBE (8020) Benzene 31. 0.3 ug/1 Toluene 5.3 0.3 ug/1 Ethylbenzene 79. 0.3 ug/1 Total Xylenes 130. 0.6 ug/1 Methyl tert-Butyl Ether N.D. 10. ug/1 Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for methyl t-butyl ether. TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) 1,600. 50. ug/1 QUALITY CONTROL REPORT IPLE SAMPLE DUP LIM UNITS BLANK RPD MS MSD MTBE (8020) Batch: 98070A55 Enzene 3 ug/1 N.D. 113 110 Chylbenzene B ug/1 N.D. 114 111	ANALYSIS NAME RESULTS REPORTING REPORTING REPORTING RESULTS LIMIT UNITS BTEX, MTBE (8020) Benzene 31. 0.3 ug/1 Total xylenes 79. 0.3 ug/1 Total xylenes 130. 0.6 ug/1 Methyl tert-Butyl Ether N.D. 10. ug/1 Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for methyl t-butyl ether. TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) 1,600. 50. ug/1 TPH-GRO (CA LUFT) 1,600. 50. ug/1 QUALITY CONTROL REPORT RPLE SAMPLE DUP MS I LIM UNITS BLANK RPD MS MSD RPD MTBE (8020) Batch: 98070A55 PRIZENE SURJE SUR	ANALYSIS NAME RESULTS REPORTING REPORTING REPORTING REPORTING RESULTS LIMIT UNITS BTEX, MTBE (8020) BENZAME 31. 0.3 ug/1 Toluene 5.3 0.3 ug/1 Ethylbenzene 79. 0.3 ug/1 Total Xylenes 130. 0.6 ug/1 Methyl tert-Butyl Ether N.D. 10. ug/1 Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for methyl t-butyl ether. TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) 1,600. 50. ug/1 QUALITY CONTROL REPORT APPLE SAMPLE DUP MS FILIM UNITS BLANK RPD MS MSD RPD LCS MTBE (8020) Batch: 98070A55 PRIZE B ug/1 N.D. 112 113 0 103 Diuene 3 ug/1 N.D. 113 110 3 102 Hylbenzene 3 ug/1 N.D. 113 110 3 101 Stal Xylenes 5 ug/1 N.D. 114 111 3 103	ANALYSIS NAME RESULTS REPORTING ANALYSIS NAME RESULTS LIMIT UNITS BTEX, MTBE (8020) Benzene 31. 0.3 ug/1 Toluene 5.3 0.3 ug/1 Ethylbenzene 79. 0.3 ug/1 Total Xylenes 130. 0.6 ug/1 Methyl tert-Butyl Ether N.D. 10. ug/1 Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for methyl t-butyl ether. TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) 1,600. 50. ug/1 TPH-GRO (CA LUFT) 1,600. 50. ug/1 QUALITY CONTROL REPORT IPLE SAMPLE 1,600. 50. ug/1 APPLE SAMPLE 1,600. 50. ug/1 NDP MS LCS DUP MIBE (8020) Batch: 98070A55 MIBE (8020) Batch: 98070A55	ANALYSIS NAME RESULTS LIMIT UNITS BTEX, MTBE (8020) Benzene 31. 0.3 ug/1 Toluene 5.3 0.3 ug/1 Ethylbenzene 79. 0.3 ug/1 Total Xylenes 130. 0.6 ug/1 Methyl tert-Butyl Ether N.D. 10. ug/1 Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for methyl t-butyl ether. TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) ANALYSIS NAME REPORT Ug/1 QUALITY CONTROL REPORT Ug/1 QUALITY CONTROL REPORT MS LCS LCS LCS LCS LIMI UNITS BLANK RPD MS MSD RPD LCS DUP RPD MTBE (8020) Batch: 98070A55 Enzene 3 ug/1 N.D. 112 113 0 103 Foliuene 3 ug/1 N.D. 113 110 3 102 Foliuene 5 ug/1 N.D. 113 110 3 101 Foliuene 6 ug/1 N.D. 113 110 3 101 Foliuene 7 114 111 3 103 Foliuene 8 ug/1 N.D. 114 111 3 103 Foliuene 8 ug/1 N.D. 114 111 3 103 Foliuene 9 Ug/1 N.D. 114 111 3 103 Foliuene 1 Ug/1 N.D. 114 111 3 103	AS RECEIVED REPORTING ANALYSIS NAME RESULTS REPORTING REPORT Benzene 31. 0.3 ug/1 5.3 0.3 ug/1 Cotal Xylenes 130. 0.6 ug/1 Methyl tert-Butyl Ether 130. 0.6 ug/1 Methyl tert-Butyl Ether N.D. 10. ug/1 Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for methyl t-butyl ether. TPH-GRO (CA LUFT) TPH-G	AS RECEIVED REPORTING ANALYSIS NAME RESULTS REPORTING ANALYSIS NAME RESULTS REPORTING REPORTING RESULTS LIMIT UNITS BTEX, MTBE (8020) Benzene 31. 0.3 ug/1 Toluene 5.3 0.3 ug/1 Ethylbenzene 79. 0.3 ug/1 Total Xylenes 130. 0.6 ug/1 Methyl tert-Butyl Ether N.D. 10. ug/1 Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for methyl t-butyl ether. TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) TPH-GRO (CA LUFT) 1,600. 50. ug/1 QUALITY CONTROL REPORT PLE SAMPLE I IM UNITS BLANK PDD Batch: 98070A55 **PDE (8020) Batch: 98070A55 ***PDE (8020) Batch: 98070A55 ****PDE (8020) Batch: 98070A55 ****PDE (8020) Batch: 98070A55 *****PDE (8020) Batch: 98070A55 *****PDE (8020) Batch: 98070A55 *****PDE (8020) Batch: 98070A55 ******PDE (8020) Batch: 98070A55 ******PDE (8020) Batch: 98070A55 ******PDE (8020) Batch: 98070A55 **********************************

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

N.D.

Batch: 98070A55

1 COPY TO Alton Geoscience

0780 Methyl tert-Butyl Ether

ug/1

10.

8268 TPH-GRO (CA LUFT)

ATTN: Tom Seeliger

103

108

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



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

99





76

144

Lancaster Laboratories



LLI Sample No. WW 2889589 Collected: 3/5/98 at 13:00 by JM

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

4/23/98 Discard:

AB-1 Water 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

RPD

Account No: 09728

2063 Main Street

Oakley CA 94561

Suite 501

Mobil Business Resources Corp.

90

P.0.

Rel.

LCS RPD

LCS LIMITS LOW HIGH

5554 TPH-GRO (CA LUFT)

50. ug/l

N.D.

125

SURROGATE SUMMARY

TRIAL ID

SURROGATE TFT **TFT**

RECOVERY * 119 115

LOW 70

70

SURROGATE LIMITS HIGH

130 130

LABORATORY CHRONICLE

CAT NO

ANALYSIS NAME

8268 TPH-GRO (CA LUFT)

8209 BTEX, MTBE (8020)

8268 TPH-GRO (CA LUFT)

8209 BTEX, MTBE (8020)

METHOD SW-846 8020A CA LUFT Gasoline Method

TRIAL ID DATE AND TIME ANALYST 1 03/12/98 1434 Gordon A. Lodde

ANALYSIS

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





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.

AS RECEIVED

CAT		AS RECE	REPORTING		
CAT NO.	ANALYSIS NAME	resul t s	LIMIT	UNITS	
8209	BTEX, MTBE (8020)	.=.=.2.2.2.2.		. = . = . = . = . = .	
0776 0777 0778 0779 0780	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	N.D. 2.9 0.9 5.7 N.D.	0.3 0.3 0.3 0.6 10.	ug/l ug/l ug/l ug/l ug/l	=,0,=,=,=,=,=,=,=,=,=,=,=,=,=,=,=,=,=,=
8268	TPH-GRO (CA LUFT)		:.=.=.=.=.=	. =. #-=-=-	=.=. <u>=.</u>
5554	TPH-GRO (CA LUFT)	N.D.	50.	ug/1 .=.=.=.=.	
#.=-=-w.=-		QUALITY	CONTROL REPO	RT	

		QUALITY	CONTROL	. REPOR	T						
SAMPLE SAMPLE RPT LIM UNITS	BLANK		DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS L LOW	IMITS HIGH
8209 BTEX, MTBE (8020)	Batch: 98070A55										
0776 Benzene 0.3 ug/1	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 0779 Total Xylenes	N.D.			113	110	3	101			77	119
0.6 ug/1	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

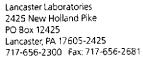
#Laboratory Method Detection Limit exceeded State Regulatory Limit N.D.=Not detected at or above the Reporting Limit

1 COPY TO Alton Geoscience

ATTN: Tom Seeliger

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









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

RPT LIM

SAMPLE

UNITS

BLANK

Suite 501 Oakley CA 94561

Account No: 09728

2063 Main Street

Mobil Business Resources Corp.

RPD

ANALYSIS

P.0.

Re1

LCS LCS DUP rpd

LCS LIMITS LOW HIGH

SURROGATE SUMMARY

TRIAL ID

SURROGATE TFT

RECOVERY % 104

LOW 70

SURROGATE LIMITS HIGH 130

8209 BTEX, MTBE (8020) 8268 TPH-GRO (CA LUFT)

TFT

94

70

130

LABORATORY CHRONICLE

CAT ANALYSIS NAME NO 8209 BTEX, MTBE (8020) 8268 TPH-GRO (CA LUFT)

METHOD SW-846 8020A CA LUFT Gasoline Method 1

TRIAL ID DATE AND TIME 03/12/98 0439 Steven A. Skiles 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

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



LLI Sample No. WW 2889591 Collected: 3/5/98 at 13:20 by JM

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

4/23/98 Discard:

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	
	REPORTING	

CAT NO.	ANALYSIS NAME		RESULTS	REPORT LIM		UNITS						
8209	BTEX, MTBE (8020)			- :		=-=-	.=.=.=.=		w.w.=.	. 	.=.=.=.	w.w.m.m.
0776 0777 0778 0779 0780	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ethe The vial submitted for of analysis. Due to t appropriate for the la	er Volatile analysis The volatile nature The boratory to adjust	of the analy	tes, it ine o	is not f samp	; ole		.=.#.=.	=.=.=	.=.=. 2	.=.=.=	\$\$.=.=.=
8268	TPH-GRO (CA LUFT)									. =. =.	.=.=. = .	.=.=.=.5.
	TPH-GRO (CA LUFT)		6,800.	400.		ug/l	.=.=.=.=	.=.=.#.	=.=.=.	.=.=.=	.=.=.=.	.=. = .=.
M.B.B. B.	-=-=- =-=			CONTROL	REPOR	RT	•					
	MPLE SAMPLE T LIM UNITS	BLANK		DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS L LOW	IMITS HIGH
8209 BTEX	, MTBE (8020)	Batch: 98070A5	5									
0776 Bo 1. 0777 To	ug/1	N.D.			112	113	0	103			78	138
1.	ug/1	N.D.			113	110	3	102			78	118
1.	thylbenzene ug/l	N.D.			113	110	3	101			77	119
3.	otal Xylenes ug/l	N.D.			114	111	3	103			76	116
0780 M 10.	ethyl tert-Butyl Ether ug/l	N.D.			103	108	4	99			76	144

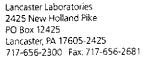
#Laboratory Method Detection Limit exceeded State Regulatory Limit N.D.=Not detected at or above the Reporting Limit

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 20:36:18 D 0001 21 417 0.00 00017850 ASR000









LLI Sample No. WW 2889591 Collected: 3/5/98 at 13:20 by JM

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

4/23/98 Discard:

AB-3 Water 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

RPD

Suite 501

Account No: 09728

2063 Main Street

Oakley CA 94561

MS

Mobil Business Resources Corp.

MSD

P.O.

Rel.

DUP RPD

LCS LIMITS LOW HIGH

Batch: 98070A55

5554 TPH-GRO (CA LUFT)

400. ug/1

8268 TPH-GRO (CA LUFT)

N.D.

75 125

SURROGATE SUMMARY

TRIAL ID

SURROGATE TFT

RECOVERY * 102 101

SURROGATE LIMITS LOW 70

HIGH 130

8209 BTEX, MTBE (8020) 8268 TPH-GRO (CA LUFT)

ANALYSIS

130

LABORATORY CHRONICLE

CAT NO

ANALYSIS NAME 8209 BTEX, MTBE (8020) 8268 TPH-GRO (CA LUFT) METHOD

SW-846 8020A

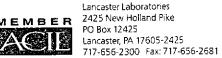
CA LUFT Gasoline Method

1

TRIAL ID DATE AND TIME ANALYST 03/12/98 1511 Gordon A. Lodde 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





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

Rel.

AS RECEIVED

CAT REPORTING NO. ANALYSIS NAME RESULTS LIMIT UNITS

8209 BTEX, MTBE (8020)

1. ug/1 0776 Benzene N.D. # ug/1 20. 0777 Toluene 260. ug/1 0778 0779 0780 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 interferents 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/1

QUALITY CONTROL REPORT

	49.	E211 001111100 1101								
SAMPLE SAMPLE RPT LIM UNITS	BLANK	DUP RPD MS	S MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS U	LIMITS HIGH	
8209 BTEX, MTBE (8020)	Batch: 98071A53									
0776 Benzene 1. ug/l	N.D.	97	7 96	1	92			78	138	
0777 Toluene 20ug/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





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

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

4/23/98 Discard:

AB-4 Water Sample

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

MOBIL: 6301 San Pablo Ave. Oakland, CA

SAMPLE SAMPLE RPT LIM UNITS

BLANK

DUP RPD

Mobil Business Resources Corp.

MSD

P.0. Rel.

99

DUP RPD LOW

LCS

LCS

144 76

LCS LIMITS

HIGH

0780 Methyl tert-Butyl Ether 50. ug/1

N.D.

96

8268 TPH-GRO (CA LUFT)

Batch: 98071A53

5554 TPH-GRO (CA LUFT) 100. ug/1

N.D.

125

SURROGATE SUMMARY

Account No: 09728

2063 Main Street

Oakley CA 94561

Suite 501

TRIAL ID

SURROGATE TFT TFT

RECOVERY & 102 109

96

76

SURROGATE LIMITS LOW 70

70

.=.=.=.=

HIGH 130 130

LABORATORY CHRONICLE

CAT

ANALYSIS NAME NO 8209 BTEX, MTBE (8020) 8268 TPH-GRO (CA LUFT)

8209 BTEX, MTBE (8020)

8268 TPH-GRO (CA LUFT)

METHOD SW-846 8020A

CA LUFT Gasoline Method

ANALYSIS 1

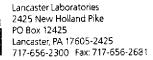
TRIAL ID DATE AND TIME ANALYST 03/12/98 0904 Gordon A. Lodde

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







LLI Sample No. WW 2889593 Collected: 3/5/98 at 13:50 by JM

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

4/23/98 Discard:

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

P.0. Rel.

Oakley CA 94561

AS RECEIVED

REPORTING CAT UNITS NO. ANALYSIS NAME RESULTS LIMIT

BTEX, MTBE (8020) 8209

2. ug/1 0776 350. Benzene ug/l N.D. # 20. 0777 Toluene 2. 310. Ethylbenzene ug/1 0778 Total Xylenes Methyl tert-Butyl Ether 0779 100. ug/l 100. ug/1 N.D.# 0780 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 interferents near their retention times, normal reporting limits were not attained for methyl t-butyl ether and toluene.

8268 TPH-GRO (CA LUFT)

=.=.=.a.a.=.a.a.a. 5554 TPH-GRO (CA LUFT) 12,000. ug/l

QUALITY CONTROL REPORT

SAMPLE SAMPLE RPT LIM UNITS 8209 BTEX, MTBE (8020)	BLANK - Batch: 98071A53	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS L	IMITS HIGH
0776 Benzene 2. ug/1	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

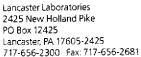
#-Laboratory Method Detection Limit exceeded State Regulatory Limit N.D. =Not detected at or above the Reporting Limit

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 0.00 00017850 ASR000









LLI Sample No. WW 2889593 Collected: $\ensuremath{\mathrm{3/\,5/98}}$ 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

SAMPLE SAMPLE RPT LIM UNITS

BLANK

Mobil Business Resources Corp.

Account No: 09728

2063 Main Street

Suite 501 Oakley CA 94561

DUP

RPD

MSD

MS RPD

ANALYSIS

99

P.0.

Rel.

76 144

LOW

LCS LIMITS

HIGH

0780 Methyl tert-Butyl Ether 100. ug/l

N.D.

96

8268 TPH-GRO (CA LUFT)

-=-=-=

Batch: 98071A53

5554 TPH-GRO (CA LUFT) 200. ug/l

N.D.

76

125

SURROGATE SUMMARY

TRIAL ID

SURROGATE TFT

RECOVERY * 97

SURROGATE LIMITS LOW

HIGH

8209 BTEX, MTBE (8020) 8268 TPH-GRO (CA LUFT) TFT

102

70 70

130 130

LCS

RPD

LABORATORY CHRONICLE

CAT NO

ANALYSIS NAME 8209 BTEX, MTBE (8020)

8268 TPH-GRO (CA LUFT)

METHOD SW-846 8020A

CA LUFT Gasoline Method

1 1

TRIAL ID DATE AND TIME ANALYST
1 03/12/98 0944 Gordon A. Lodde

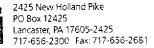
03/12/98 0944 Gordon A. Lodde

#=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





LLI Sample No. WW 2889594 Collected: 3/5/98 at 14:20 by JM

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

4/23/98 Discard:

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.0.

Rel.

AS RECEIVED REPORTING

CAT RESULTS LIMIT UNITS ANALYSIS NAME NO. 8209 BTEX, MTBE (8020)

57. 0.3 ug/1 0776 Benzene 0.3 0777 Toluene 12. ug/1 44. 0.3 ug/1 0778 Ethylbenzene 0.6 ug/1 Total Xylenes Methyl tert-Butyl Ether 93. 0779 N.D. ug/1 0780

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)

Due to the presence of an interferent near its retention time, the normal

reporting limit was not attained for methyl t-butyl ether.

#. =. =. =. =. =. =. =. =. =. #. =. #. =. #. =. =. #. =. =. =. #. =. =. #. =. #. =. #. =. #. =. #. =. #. =. #.

50. 1,000. ug/1 5554 TPH-GRO (CA LUFT)

QUALITY CONTROL REPORT LCS LIMITS DUP LCS SAMPLE SAMPLE LCS DUP RPD LOW HIGH MSD MS BLANK RPD RPT LIM UNITS Batch: 98071A53 8209 BTEX, MTBE (8020) 0776 Benzene 138 78 92 N.D. 97 96 1 0.3 ug/1 0777 Toluene 93 78 118 99 1 100 0.3 N.D. ug/1 0778 Ethylbenzene 119 2 93 77 99 98 0.3 N.D. ug/1 Total Xylenes 76 116 97 2 93 N.D. 99 0.6 ug/1

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

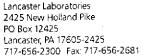
1 COPY TO Alton Geoscience

ATTN: Tom Seeliger

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

0.00 00017850 ASR000







LLI Sample No. WW 2889594 Collected: 3/5/98 at 14:20 by JM

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

4/23/98 Discard:

AB-9 Water Sample

___ug/1

10.

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

MOBIL: 6301 San Pablo Ave. Oakland, CA

SAMPLE SAMPLE BLANK RPT LIM UNITS

0780 Methyl tert-Butyl Ether

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

5554 TPH-GRO (CA LUFT)

50. ug/1 N.D.

N.D.

79 SURROGATE SUMMARY

> SURROGATE TRIAL ID **TFT** TFT

RECOVERY * 103 101

MSD

96

76

SURROGATE LIMITS LOW 70

99

P.0. Rel.

0

HIGH 130 130

RPD

LCS LIMITS

HIGH

144

125

LOW

76

LABORATORY CHRONICLE

Account No: 09728

2063 Main Street

Oakley CA 94561

RPD

Suite 501

Mobil Business Resources Corp.

96

CAT ANALYSIS NAME NO 8209 BTEX, MTBE (8020) 8268 TPH-GRO (CA LUFT)

8209 BTEX, MTBE (8020)

8268 TPH-GRO (CA LUFT)

METHOD SW-846 8020A CA LUFT Gasoline Method

ANALYSIS 1 1

TRIAL ID DATE AND TIME analyst 03/12/98 1229 Gordon A. Lodde 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









LLI Sample No. WW 2889595 Collected: 3/5/98 at 14:30 by JM

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

4/23/98 Discard:

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.0.

Rel.

		AS RE	CEIVED									
CAT NO. ANALYSIS NAME		RESULTS	REPORT LIMI		UNITS							
8209 BTEX, MTBE (8020)				·		e- -		.=.=.=	.=.=.=	. .	.=.=.=	= . :
0776 Benzene 0777 Toluene 0778 Ethylbenzene 0779 Total Xylenes 0780 Methyl tert-Butyl Ether		3.0 1.2 3.2 2.8 N.D.	0.3 0.3 0.3 0.6		ug/1 ug/1 ug/1 ug/1 ug/1				-#-=-	.=.=.8	·····	= =
8268 TPH-GRO (CA LUFT)									.=.=.=	.=.=.=		= - :
5554 TPH-GRO (CA LUFT)		200.	50.		ug/1							
=.=.=.	. 2 . 2 . 2 . 2 . 2 . 2 . 2 . 2 . 2 . 2		Y CONTROL									
SAMPLE SAMPLE RPT LIM UNITS	BLANK		DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD		LIMITS HIGH	
8209 BTEX, MTBE (8020)	Batch: 98071A53											
0776 Benzene 0.3 ug/l 0777 Toluene	N.D.			97	96	1	92			78	138	
0.3 ug/l 0778 Ethylbenzene	N.D.			100	99	1	93			78	118	
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)	N D			70	76	3	83			75	125	

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

N.D.

1 COPY TO Alton Geoscience

ug/1

50.

ATTN: Tom Seeliger

79

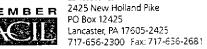
76

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



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

83



Lancaster Laboratories

125

75



LLI Sample No. WW 2889595 Collected: $\ensuremath{\mathrm{3/\,5/98}}$ at 14:30 by JM

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

4/23/98 Discard:

AB-10 Water Sample

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

MOBIL: 6301 San Pablo Ave. Oakland, CA

RPT LIM

CAT

NO

8209

SAMPLE UNITS

BLANK

DUP RPD

Suite 501

Account No: 09728

2063 Main Street

Oakley CA 94561

Mobil Business Resources Corp.

ANALYSIS

MS RPD

LCS RPD DUP

LCS LIMITS LOW HIGH

SURROGATE SUMMARY

TRIAL ID

SW-846 8020A

CA LUFT Gasoline Method

METHOD

SURROGATE TFT TFT

RECOVERY * 94 93

LOW 70 70

P.O.

Rel.

SURROGATE LIMITS HIGH 130 130

8209 BTEX, MTBE (8020) 8268 TPH-GRO (CA LUFT)

ANALYSIS NAME

8268 TPH-GRO (CA LUFT)

BTEX, MTBE (8020)

LABORATORY CHRONICLE

ì

TRIAL ID DATE AND TIME ANALYST
1 03/12/98 1309 Gordon A. Lodde

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





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.0. Rel.

			AS REC									
CAT NO.	ANALYSIS NAME		RESULTS	REPORT LIMI		UNITS						
8209	BTEX, MTBE (8020)			.#.=.=.=		.=.=.=.	=.=.=.=.	=-=-=	. 	.=.=.#	.=.=.=	
0778 0779 0780	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether		N.D. N.D. N.D. N.D. N.D.	10.		ug/1 ug/1 ug/1 ug/1 ug/1	=.= .=.	=.=.=.=	.=.=.=	.=.=.=	.=.=.	
	TPH-GRO (CA LUFT)						=-W-E-E-				.=.=.	
5554	TPH-GRO (CA LUFT)	.=.=.=.	N.D.	50.		ug/]						
±.#.=.=.	=.=. =.=.=.=.=.	.=.=.=. 0.8.8.		Y CONTROL								
SAM RPT	PLE SAMPLE LIM UNITS	BLANK		DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
8209 BTEX,	MTBE (8020)	Batch: 98071A53										
0776 Be 0.3 0777 To	ug/1	N.D.			97	96	1	92			78	138
0.3	ug/l	N.D.			100	99	1	93			78	118
0.3	hylbenzene ug/l	N.D.			99	98	2	93			77	119
0.6		N.D.			99	97	2	93			76	116
10.	thyl tert-Butyl Ether ug/l	N.D.			96	96	0	99			76	144
8268 TPH-G	RO (CA LUFT)	Batch: 98071A53										
5554 TP 50.	H-GRO (CA LUFT) ug/l	N.D.			79	76	3	83			75	125

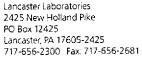
#=Laboratory Method Detection Limit exceeded State Regulatory Limit N.D.=Not detected at or above the Reporting Limit

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







LLI Sample No. WW 2889596 Collected: $\ensuremath{\mathrm{3/\,5/98}}$ 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

SAMPLE RPT LIM SAMPLE

UNITS

8209 BTEX, MTBE (8020)

8268 TPH-GRO (CA LUFT)

BLANK

Account No: 09728

Mobil Business Resources Corp.

2063 Main Street

Suite 501

Oakley CA 94561

P.0.

Rel.

DUP LCS LCS LIMITS LCS LOW RPD RPD DUP RPD HIGH

SURROGATE SUMMARY

TRIAL ID

SURROGATE TFT

RECOVERY * 90 84

.=.=.=.=.=.=.;;,=.=.=....=.=.=.=.=.=.

SURROGATE LIMITS HIGH

LOW 130 70 70 130

LABORATORY CHRONICLE

ANALYSIS TRIAL ID DATE AND TIME

analyst

8268 TPH-GRO (CA LUFT)

CAT

NO

ANALYSIS NAME 8209 BTEX, MTBE (8020) METHOD

SW-846 8020A CA LUFT Gasoline Method 1 1

03/12/98 1348 Gordon A. Lodde 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

Lancaster Laboratories 2425 New Holland Pike MEMBER 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.0. Rel.

AS RECEIVED

CAT		7	REPORTING			
NO.	ANALYSIS NAME	RESULTS	LIMIT	UNITS		
8209	BTEX, MTBE (8020)	. = . = . = . = . = . = . = . = . = . =		:.e.e. e.=.=.		.=.=.
0776 0777 0778 0779 0780	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	660. 50. 630. 940. 37.	1. 1. 1. 3. 10.	ug/1 ug/1 ug/1 ug/1 ug/1	, #. = . = . #. #. #. = . = . = . #. #. #. = . =	.=.=. :
8268	8015 Mod. for Gasoline			=.=.=.=. =.=.	a.=.u.=.x.=.=.#.=.=.#.F.=.=.	-=-=-
5554	TPH-GRO (CA LUFT)	8,800.	100.	ug/l	.=.=.=.=.6.p.=.=.=.=.=.=.=.=.	.=.=.
		QUALIT	Y CONTROL REPO	ORT		

		QUALITY CONTRO	L REPOR	₹T							
SAMPLE SAMPLE RPT LIM UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS I LOW	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)			101	00	•	02			75	125	

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

N.D.

1 COPY TO Alton Geoscience

ug/1

ATTN: Tom Seeliger

101

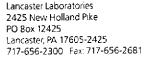
Questions? Contact your Client Services Representative at (717) 656-2300 132881 607236 Melissa A. McDermott 21:36:07 D 0001 0.00 00005300 ASR000

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

92









125

75

MAR 3 0 1998



LLI Sample No. WW 2894851 Collected: $\ensuremath{\mathrm{3/16/98}}$ at 15:30 by JM

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

Discard:

AB-12 Grab Water Sample

LOC# 99-105 PRCA# 980044 PHC#2L MOBIL: 6301 San Pablo Ave., CA

SAMPLE RPT LIM SAMPLE

UNITS

BLANK

Account No: 09728

Mobil Business Resources Corp.

2063 Main Street

Suite 501

Oakley CA 94561

P.O.

Rel...

SURROGATE SUMMARY

DUP

RPD

SURROGATE

RECOVERY %

SURROGATE LIMITS

LCS LIMITS DUP HIGH

TRIAL ID

TFT TFT 108 105

1

LOW 70

HIGH 130

70

130

LABORATORY CHRONICLE

CAT NO

ANALYSIS NAME

8209 BTEX, MTBE (8020) 8268 8015 Mod. for Gasoline

8209 BTEX, MTBE (8020)

8268 8015 Mod. for Gasoline

.=.=.=.=.=.=.=.=.=.=.=.=.=.=.=

METHOD

SW-846 8020A CA LUFT Gasoline Method ANALYSIS

TRIAL ID DATE AND TIME ANALYST

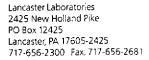
1 03/20/98 0207 Patrick N. Evans

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







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..

AS RECEIVED

		AS INCC.				
CAT NO.	ANALYSIS NAME	RESULTS	REPORTING LIMIT	UNITS		
8209	BTEX, MTBE (8020)	. M	.=.=.=.		=-=-=-=-=-=-=	#.#. #.#. #.#.
0776 0777 0778 0779 0780	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	11. 0.8 10. 15. N.D.	0.3 0.3 0.3 0.6 10.	ug/l ug/l ug/l ug/l ug/l	=.#.=.=.=.=.	=-=.= . =. =. =. =.
8268	8015 Mod. for Gasoline		, = , = . = . = . = . 1	=.=.#.=.=.=.=.=.	=.=.=.=.=.=.=.=.=.	a.=.=.=.#.=.#.#.=.=.
5554	TPH-GRO (CA LUFT)	210.	50.	ug/1		

=.=.=.#.=.=.=.=.=.=.=.	5.4.2.2. 2.2.2.2.	QUALITY	CONTRO	L REPOR	RT						
SAMPLE SAMPLE RPT LIM UNITS	BLANK		DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS L	IMITS HIGH
8209 BTEX, MTBE (8020)	Batch: 98078A55										
0776 Benzene 0.3 ug/1 0777 To1uene	N.D.			98	111	12	99			78	138
0.3 ug/1	N.D.			112	113	0	100			78	118
0778 Ethylbenzene 0.3 ug/l	N.D.			113	111	2	99			77	119
0779 Total Xylenes 0.6 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) 50. 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

MAR 3 0 1998

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







LLI Sample No. WW 2894850 Collected: 3/16/98 at 15:00 by JM

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

4/24/98 Discard:

AB-13 Grab Water Sample LOC# 99-105 PRCA# 980044 PHC#2L

MOBIL: 6301 San Pablo Ave., CA

SAMPLE RPT LIM

CAT

NO

8209

SAMPLE UNITS

8209 BTEX, MTBE (8020)

ANALYSIS NAME

BTEX, MTBE (8020)

8268 8015 Mod. for Gasoline

8268 8015 Mod. for Gasoline

BLANK

DUP RPD

Account No: 09728

2063 Main Street

Suite 501 Oakley CA 94561

Mobil Business Resources Corp.

RPD

ANALYSIS

RPD DUP

LCS LIMITS LOW HIGH

SURROGATE SUMMARY

TRIAL ID

SURROGATE TFT TFT

RECOVERY * 99 94

LOW 70 70

P.0.

Rel.

SURROGATE LIMITS HIGH 130 130

LABORATORY CHRONICLE

METHOD SW-846 8020A CA LUFT Gasoline Method ī

TRIAL ID DATE AND TIME ANALYST
1 03/20/98 0052 Patrick N. Evans 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



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



2889576 LLI Sample No. SW

Collected: 3/ 5/98

by JM

Discard:

2603

2604

2606

5327

5555

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

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.

AS RECEIVED

REPORTING CAT NO. ANALYSIS NAME RESULTS LIMIT

UNITS

N.D. 1. mg/kg 2464 Methyl tertiary butyl ether

5550 TPH-GRO CA LUFT & BTEX(Soils)

> 0.005 mg/kg N.D. N.D. 0.005 mg/kg 0.005 mg/kg N.D. N.D. 0.015 mg/kg

Ethylbenzene | Total Xylenes TPH - GRO CA LUFT (Soils) mg/kg N.D.

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).

Benzene

Toluene

QUALITY CONTROL REPORT

SAMPLE SAMPLE RPT LIM UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS !	LIMITS 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 5327 Total Xylenes	N.D.		92	84	9	101			70	130
0.015 mg/kg	N.D.		87	79	10	95			70	130
5555 TPH - GRO CA LUFT (Soils) 1. mg/kg	N.D.	n.s.s.s.=.=	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 at (717) 656-2300 132857 605937 20:27:29 D 0001 21

15.00 00020450 ASR000







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

SAMPLE RPT LIM SAMPLE UNITS

BLANK

DUP RPD

Account No: 09728

2063 Main Street Suite 501

Oakley CA 94561

MS

Mobil Business Resources Corp.

MSD

ANALYSIS

LCS LCS DUP RPD

LCS LIMITS LOW HIGH

SURROGATE SUMMARY

2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

SURROGATE TRIAL ID TFT TFT 1C3FB

RECOVERY % 108 108 83 __.=.=.=.=.=.=.=.=.=.=.=.= LOW 70 70 70

P.0.

Rel.

SURROGATE LIMITS HIGH 130 130

130

LABORATORY CHRONICLE

CAT ANALYSIS NAME NO

2464 Methyl tertiary butyl ether SW-846 8020A, mod. 5550 TPH-GRO CA LUFT & BTEX(Soils) CA LUFT /SW-846 8020A, mod.

TRIAL ID 1

DATE AND TIME JATE AND TIME ANALYST 03/17/98 2322 Paul Vogel 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 at (717) 656-2300 Melissa A. McDermott

> > 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





2889577 LLI Sample No. SW

Collected: 3/ 5/98

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 CAT NO. ANALYSIS NAME

RESULTS

N.D.

N.D. N.D.

N.D.

LIMIT

0.005

0.005

0.005

UNITS

mg/kg

mg/kg

mg/kg

mg/kg

1. mg/kg 2464 Methyl tertiary butyl ether N.D. .=.=.=.=.=.=.=.=.=.=.=.=.

5550 TPH-GRO CA LUFT & BTEX(Soils) .=.=.=.=.=..................

2603 Benzene 2604 Toluene 2606 Ethylbenzene

5327

Total Xylenes TPH - GRO CA LUFT (Soils) 5555

0.015 N.D. 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 SAMPLE RPT LIM UNITS	BLANK BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS L LOW	IMITS 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		.=.= <i>-</i> =	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 at (717) 656-2300 132857 605937 20:28:09 D 0001 21 15.00 00020450 ASR000 417

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

See reverse side for explanation of symbols and abbreviations.



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





2889577 LLI Sample No. SW

Collected: 3/ 5/98

by JM

4/23/98

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

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

SAMPLE RPT LIM

Discard:

SAMPLE UNITS

BLANK

DHP RPD

Suite 501

Account No: 09728

2063 Main Street

Oakley CA 94561

MS

Mobil Business Resources Corp.

RPD

ANALYSIS

DUP

P.0.

Rel.

HIGH

LCS LIMITS LOW HIGH

Surrogate Summary

2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

5550 TPH-GRO CA LUFT & BTEX(Soils)

SURROGATE TRIAL ID TFT TEL 1C3FB

RECOVERY % 97 97 92

MSD

SURROGATE LIMITS LOW 70 70 70

130 130 130

LABORATORY CHRONICLE

CAT NO 2464

ANALYSIS NAME

METHOD Methyl tertiary butyl ether

SW-846 8020A, mod. CA LUFT /SW-846 8020A, mod. TRIAL ID 1 1

DATE AND TIME 03/18/98 0013 Stephanie A. Selis 03/18/98 0013 Stephanie A. Selis

ANALYST

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



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

Lancaster Laboratories



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

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

4/23/98 Discard:

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.0.

Rel.

AS RECEIVED

REPORTING CAT NO. ANALYSIS NAME RESULTS LIMIT UNITS 2464 Methyl tertiary butyl ether N.D. mg/kg 5550 TPH-GRO CA LUFT & BTEX(Soils)

.=.#.=.=.=.=.=..................... 2603 Benzene

0.005 N.D. mg/kg mg/kg 2604 N.D. 0.005 Toluene 0.005 mg/kg 2606 Ethylbenzene N.D. Total Xylenes TPH - GRO CA LUFT (Soils) 5327 0.015 mg/kg N.D. mg/kg 5555 N.D.

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

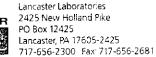
#Laboratory Method Detection Limit exceeded State Regulatory Limit N.D.=Not detected at or above the Reporting Limit

1 COPY TO Alton Geoscience

ATTN: Tom Seeliger

Questions? Contact your Client Services Representative Melissa A. McDermott at (717) 656-2300 20:28:43 D 0001 21 417 15:00 00020450 ASR000 132857 605937









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

4/23/98 Discard:

AB-3 (5.5') 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

Suite 501

Account No: 09728

2063 Main Street

Oakley CA 94561

MSD MS

Mobil Business Resources Corp.

RPD

LCS LCS DUP rpd

LCS LIMITS LOW HIGH

SURROGATE SUMMARY

2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

TRIAL ID SURROGATE TFT TFT 1C3FB

RECOVERY * 96 96 93

LOW 70 70 70

P.0.

Rel.

SURROGATE LIMITS HIGH 130 130 130

LABORATORY CHRONICLE

CAT ANALYSIS NAME NO 2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

METHOD SW-846 8020A, mod. CA LUFT /SW-846 8020A, mod.

ANALYSIS TRIAL ID DATE AND TIME 1

03/18/98 0058 Stephanie A. Selis 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 at (717) 656-2300 Melissa A. McDermott









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.0.

Re1.

AS RECEIVED

REPORTING CAT UNITS RESULTS ANALYSIS NAME LIMIT NO. mg/kg N.D. 2464 Methyl tertiary butyl ether 1. .=.=.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.

5550 TPH-GRO CA LUFT & BTEX(Soils) =.=.=.=.#.**#.#.#.#.#.#.#.#.#.#.**

2603 N.D. 0.005 mg/kg Benzene 0.005 mg/kg N.D. 2604 Toluene N.D. # N.D. # 2606 Ethylbenzene 0.05 mg/kg Total Xylenes N.D. # 0.080 mg/kg
TPH - GRO CA LUFT (Soils) 17, 1. mg/kg
According to the California LUFT Protocol, the quantitation for Gasoline mg/kg 5327 5555 mg/kg

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 SAMPLE RPT LIM UNITS	BLANK BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS LOW	LIMITS 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 0.05 mg/kg	N.D.		92	84	9	101			70	130	
5327 Total Xylenes 0.080 mg/kg 5555 TPH - GRO CA LUFT (Soils)	N.D.		87	79	10	95			70	130	

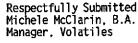
#=Laboratory Method Detection Limit exceeded State Regulatory Limit N.D.=Not detected at or above the Reporting Limit

1 COPY TO Alton Geoscience

ATTN: Tom Seeliger

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

Lancaster Laboratories









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

4/23/98 Discard:

AB-4 (5-6') Soil Sample LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50

Mobil: 6301 San Pablo Ave. Oakland, CA

SAMPLE UNITS

BLANK

DUP RPD

Account No: 09728

2063 Main Street

Oakley CA 94561

Suite 501

MSD

Mobil Business Resources Corp.

RPD

P.O. Rel.

> LCS LIMITS LCS LOW

HIGH

mg/kg 1.

SAMPLE

RPT LIM

96 97

.=.=.2.2.2.2.2.2.2.2

107

130

SURROGATE SUMMARY

TRIAL ID 2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

SURROGATE TFT TFT 1C3FB

RECOVERY % 88 88 120

SURROGATE LIMITS HIGH LOW 70 70 130 130 130

70

LABORATORY CHRONICLE

CAT NO

ANALYSIS NAME

2464 Methyl tertiary butyl ether

METHOD

SW-846 8020A, mod. 5550 TPH-GRO CA LUFT & BTEX(Soils) CA LUFT /SW-846 8020A, mod.

ANALYSIS TRIAL ID

DATE AND TIME

03/18/98 0136 Stephanie A. Selis 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



2889580 LLI Sample No. SW 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.0. Rel.

AS RECEIVED

REPORTING CAT RESULTS ANALYSIS NAME NO.

UNITS LIMIT

mg/kg N.D. 1. 2464 Methyl tertiary butyl ether Poor surrogate recoveries were observed for this sample due to the dilution

needed to perform the analysis. =.=.=.=.=.=.=.=.=.=.=.=.=

5550 TPH-GRO CA LUFT & BTEX(Soils) .=.=.=.=.=.=.=.=.=.=.=.=.=.

N.D. # N.D. # 0.02 2603 mg/kg Benzene 0.04 mg/kg 2604 Toluene 0.02 2606 Ethylbenzene 0.65 mg/kg N.D. # 2.0 mg/kg Total Xylenes TPH - GRO CA LUFT (Soils) 5327 5555 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 SAMPLE RPT LIM UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS I	LIMITS 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

=.=.=.=.±.=.=.=.<u>=.</u>=.=.=.=.=.=.=.=.=.=

ATTN: Tom Seeliger

Questions? Contact your Client Services Representative Melissa A. McDermott at (717) 656-2300 132857 605937 20:29:51 D 0001 21 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 Collected: 3/5/98 2889580

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.0. Rel.

SAMPLE SAMPLE RPT LIM UNITS	BLANK	DUP RPD	MS	MSĐ	MS RPD	LCS	LCS Dup	LCS RPD	LCS I LOW	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 SUMMAR	Υ							

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

LABORATORY CHRONICLE

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



LLI Sample No. SW 2889581 Collected: 3/5/98 by JM

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

4/23/98 Discard:

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.0. Rel .

AS RECEIVED

CAT NO. ANALYSIS NAME

RESULTS

REPORTING UNITS LIMIT

2464 Methyl tertiary butyl ether

N.D. #

N.D. # N.D. # N.D. #

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

MSD

86

75

0.02

0.02

0.3

0.60

N.D. Poor surrogate recoveries were observed for this sample due to the dilution

needed to perform the analysis.

TPH-GRO CA LUFT & BTEX(Soils) 5550

2603 Benzene 2604 Toluene 2606 Ethylbenzene

5327 Total Xylenes

5555

hydrocarbons).

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

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

DUP

RPD

SAMPLE SAMPLE RPT LIM UNITS 2464 Methyl tertiary butyl ether mg/kg 1. 5550 TPH-GRO CA LUFT & BTEX(Soils)

mg/kg

mg/kg

2603 Benzene

2604

0.02

0.02

Toluene

BLANK Batch: 98076A33 N.D.

Batch: 98076A33

N.D. N.D.

87 78

83

100

11 10

RPD

15

LCS

105

DUP

70 95 70 90

LCS

RPD

#-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 21 417 15.00 00020450 ASR000 132857 605937

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





Lancaster Laboratories



LCS LIMITS

HIGH

130

130

130

LOW

70



LLI Sample No. SW 2889581 Collected: 3/5/98 by JM

Discard:

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

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.0. Rel.

SAMPLE SAMPLE RPT LIM UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS L LOW	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 SUMMA	RY							

		0014104114		SURROGATE	LIMITS
	TRIAL ID	SURROGATE	RECOVERY %	LOW 70	HIGH 130
2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)		TFT 1C3FB	10 10 114	70 70 70	130 130

LABORATORY CHRONICLE

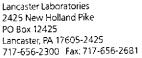
CAT	•			anai	LYS12	
NO	ANALYSIS NAME	METHOD	TRIAL	ID	DATE AND TIME	ANALYST
	Methyl tertiary butyl ether	SW-846 8020A, mod.	1		03/18/98 0524	Stephanie A. Selis
5550	TPH-GRO CA LUFT & BTEX(Soils)	CA LUFT /SW-846 8020A, mod.	1		03/18/98 0524	Stephanie A. Selis

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







LLI Sample No. SW 2889582

Collected: 3/ 5/98

by JM

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

Discard:

AB-7 (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.0. Rel.

AS RECEIVED

CAT			REPORTING			
NO.	ANALYSIS NAME	RESULTS	LIMIT	UNITS		
2464	Methyl tertiary butyl ether	N.D.	1.	mg/kg		=.=.=.=.=.=.
5550	TPH-GRO CA LUFT & BTEX(Soils)			.=.=.=.=.	.=.=.=.=.=.=.=.=.=.=.=.=.	a.s.z.z.
2603 2604 2606 5327 5555	Benzene Toluene Ethylbenzene Total Xylenes TPH - GRO CA LUFT (Soils) According to the California LUFT Protoco Range Organics was performed by peak are to that of a gasoline reference standard hydrocarbons). Due to interferences from the sample mat the xylenes determination was increased.	a comparison of (between C6 an	f the sample nd C12 norma	pattern 1		

QUALITY CONTROL REPORT

SAMPLE SAMPLE RPT LIM UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS L	_IMITS 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 0.080 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 20:31:01 D 0001 21 417 15.00 00020450 ASR000

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



2889582 LLI Sample No. SW

Collected: 3/ 5/98

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

Suite 501 Oakley CA 94561

Mobil Business Resources Corp.

MSD

MS RPD

ANALYSIS

LCS

P.0.

Rel.

LCS LCS LIMITS LOW

HIGH

mg/kg 1.

N.D.

Account No: 09728

2063 Main Street

107

130

SURROGATE SUMMARY

2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

SURROGATE TRIAL ID TFT TFT 1C3FB

RECOVERY * 89 89 123

LOW 70 70 70

SURROGATE LIMITS 130 130

130

LABORATORY CHRONICLE

CAT NO ANALYSIS NAME

2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

SW-846 8020A, mod. CA LUFT /SW-846 8020A, mod. TRIAL ID

DATE AND TIME ANALYST

03/18/98 0603 Stephanie A. Selis

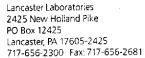
03/18/98 0603 Stephanie A. Selis

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









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.0. Rel.

AS RECEIVED

REPORTING CAT RESULTS UNITS ANALYSIS NAME NO. LIMIT mg/kg 2464 N.D. 1. Methyl tertiary butyl ether .=.2.2.2.2.2.2.2.2.2.2.2.2.2.2. 5550 TPH-GRO CA LUFT & BTEX(Soils) N.D. 0.005 mg/kg 2603 Benzene 0.005 mg/kg 2604 Toluene N.D. mg/kg N.D. 0.005 2606 Ethylbenzene mg/kg 0.015 5327 Total Xylenes N.D. TPH - GRO CA LUFT (Soils) N.D. 1. mg/kg According to the California LUFT Protocol, the quantitation for Gasoline 5555 mg/kg 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

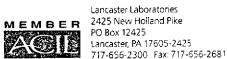
SAMPLE SAMPLE RPT LIM UNITS 2464 Methyl tertiary butyl ether 1. mg/kg	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS I	LIMITS HIGH
	Batch: 98077A33 N.D.		107	104	2	110			70	130
5550 TPH-GRO CA LUFT & BTEX(Soils)	Batch: 98077A33									
2603 Benzene 0.005 mg/kg	N.D.		91	90	1	104			70	130
2604 Toluene 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 20:31:34 D 0001 21 417 15:00 00020450 ASR000







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

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

4/23/98 Discard:

AB-8 (5') Soil Sample

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

Mobil: 6301 San Pablo Ave. Oakland, CA

2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

SAMPLE RPT LIM

SAMPLE UNITS

BLANK

Account No: 09728

Mobil Business Resources Corp.

MS

2063 Main Street

Suite 501

Oakley CA 94561

P.0. Rel.

LCS LCS LIMITS LCS DUP RPD LOW HIGH

03/18/98 2057 Matthew T. Balmer

RPD SURROGATE SUMMARY

DUP

SURROGATE LIMITS HIGH RECOVERY % LOW TRIAL ID SURROGATE 91 70 130 TFT 70 130 91 TFT 92 70 130 1C3FB

MSD

RPD

LABORATORY CHRONICLE

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

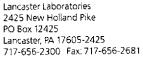
CA LUFT /SW-846 8020A, mod.

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 at (717) 656-2300 Melissa A. McDermott







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.0. Rel.

AS RECEIVED

REPORTING CAT UNITS **RESULTS** ANALYSIS NAME LIMIT NO.

mg/kg N.D. 2464 1. Methyl tertiary butyl ether

TPH-GRO CA LUFT & BTEX(Soils) 5550 =.=.=.=.=.=.=.=.=.=.=.=.=.=.=

2603 0.006 0.005 mg/kg Benzene 0.005 mg/kg N.D. 2604 Toluene 2606 0.028 0.005 mg/kg Ethylbenzene Total Xylenes
N.D. # 0.070 mg/kg
TPH - GRO CA LUFT (Soils)
15. 1. mg/kg
According to the California LUFT Protocol, the quantitation for Gasoline mg/kg 5327 5555

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 SAMPLE RPT LIM UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS I	LIMITS 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 0.070 mg/kg 5555 TPH - GRO CA LUFT (Soils)	N.D.		87	79	10	9 5			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 at (717) 656-2300 132857 605937 20:32:10 D 0001 21 417 15.00 00020450 ASR000

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





Lancaster Laboratories





LLI Sample No. SW 2889584 Collected: 3/5/98 by JM

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

Account No: 09728 Mobil Business Resources Corp. 2063 Main Street

P.0. Re1

Discard:

4/23/98

SAMPLE

UNITS

Suite 501

Oakley CA 94561

AB-9 (4') Soil Sample LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50

Mobil: 6301 San Pablo Ave. Oakland, CA

LCS LCS LIMITS LCS MSD RPD LOW HIGH RPD

mg/kg 1.

SAMPLE

RPT LIM

BLANK

130

N.D.

SURROGATE SUMMARY

				SURRUGAT	F FIWIT2
	TRIAL ID	SURROGATE	RECOVERY *	LOW	HIGH
2464 Methyl tertiary butyl ether	7112712 25	TFT	93	70	130
5550 TPH-GRO CA LUFT & BTEX(Soils)		ŤFŤ	93	70	130
3330 IFII-ONG CA EDIT & DIEX(30113)		1C3FB	113	70	130

LABORATORY CHRONICLE

CAT ANALYSIS NAME NO 2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils) CA LUFT /SW-846 8020A, mod.

METHOD

SW-846 8020A, mod.

ANALYSIS TRIAL ID DATE AND TIME 1

______.

ANALYST DATE AND TIME ANALYST 03/18/98 1159 Dawn Boley

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









LLI Sample No. SW Collected: 3/5/98 2889585

CAT

NO.

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

4/23/98 Discard:

ANALYSIS NAME

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.0. Rel.

AS RECEIVED

REPORTING

RESULTS

UNITS LIMIT

mg/kg

2464 Methyl tertiary butyl ether mg/kg _______

TPH-GRO CA LUFT & BTEX(Soils) 5550 .=.=.=.=.=.=.=.=.=.=.=.=.=.=.=.= 0.005 N.D. 2603 Benzene 2604 Toluene N.D.

0.005 mg/kg 0.005 mg/kg N.D. 2606 Ethy1benzene Total Xylenes TPH - GRO CA LUFT (Soils) mg/kg N.D. 0.015 5327 mg/kg N.D. 5555

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 SAMPLE RPT LIM UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS Low	LIMITS 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 20:32:43 D 0001 21 132857 605937 417 15.00 00020450 ASR000









2889585 LLI Sample No. SW Collected: 3/5/98

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

4/23/98 Discard:

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**

Account No: 09728

2063 Main Street

Oakley CA 94561

Suite 501

Mobil Business Resources Corp.

MS

MSD

LCS LCS DUP

SURROGATE LIMITS

LCS LIMITS LOW HIGH

SURROGATE SUMMARY

TRIAL ID 2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

SURROGATE TFT TFT 1C3FB

RECOVERY * 107 107 R4

70 70 70

LOW

=.=.=.#.

P.0. Rel:

=-=-**=**-

LCS

RPD

.=.2.2.2.6.2.2.2.2.3.2.2.2.2. LABORATORY CHRONICLE

CAT NO ANALYSIS NAME

2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

METHOD

SW-846 8020A, mod. CA LUFT /SW-846 8020A, mod. 1

ANALYSIS TRIAL ID DATE AND TIME 03/18/98 1301 Dawn Boley 03/18/98 1301 Dawn Boley

Samples were submitted in plastic containers. .=.ʊ,=.=.=.=.=.=.=.=.=.=.=.=. .=.ʊ,=.=.=.=.=.=.=.

> #-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





2889586 LLI Sample No. SW

Collected: 3/ 5/98

by JM

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

Discard:

2603

2604

2606

5327 5555 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.0. Rel.

AS RECEIVED

REPORTING CAT ANALYSIS NAME NO.

RESULTS

LIMIT

UNITS

mg/kg

mg/kg

mg/kg

2464 N.D. 1. Methyl tertiary butyl ether

5550 TPH-GRO CA LUFT & BTEX(Soils)

> N.D. 0.005 0.005 N.D. N.D. 0.005

mg/kg mg/kg

Total Xylenes N.D. 0.015 mg/kg
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).

Ethylbenzene

Benzene

Toluene

QUALITY CONTROL REPORT

SAMPLE SAMPLE RPT LIM UNITS	BLANK BANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS L	IMITS 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

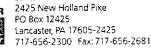
ATTN: Tom Seeliger

Questions? Contact your Client Services Representative Melissa A. McDermott at (717) 656-2300 132857 605937

20:33:18 D 0001 21 417 15.00 00020450 ASR000

Lancaster Laboratories









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

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

4/23/98 Discard:

Account No: 09728 Mobil Business Resources Corp.

2063 Main Street

Suite 501

Oakley CA 94561

P.O. Rel.

LCS

AB-11 (5-6') Soil Sample LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50

Mobil: 6301 San Pablo Ave. Oakland, CA

DUP RPD

MSD MS

DUP RPD

LCS LIMITS

SAMPLE SAMPLE UNITS RPT LIM

BLANK

LOW

SURROGATE SUMMARY

2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

..............

SURROGATE TRIAL ID TFT TFT 1C3FB

RECOVERY * 84 84 106

SURROGATE LIMITS LOW 70 HIGH 130 70 70

130 130

LABORATORY CHRONICLE

CAT NO ANALYSIS NAME 2464

5550

Methyl tertiary butyl ether TPH-GRO CA LUFT & BTEX(Soils) METHOD SW-846 8020A, mod. CA LUFT /SW-846 8020A, mod.

ANALYSIS TRIAL ID DATE AND TIME 1 1

ANALYST 03/18/98 1409 Dawn Boley 03/18/98 1409 Dawn Boley

Samples were submitted in plastic containers.

"-Laboratory Method Detection Limit exceeded State Regulatory Limit \text{\text{--Not detected at or above the Reporting Limit}}

Ó

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

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



_425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax: 717-656-2681

aster Laboratories





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.0. Rel.

AS RECEIVED

REPORTING CAT UNITS RESULTS NO. ANALYSIS NAME LIMIT mg/kg Methyl tertiary butyl ether N.D. 1. 2464 .=.=.=.=.=.=.=.

TPH-GRO CA LUFT & BTEX(Soils) 5550 z.p.s.s.c.2.2.2.2.2.3.3.2.2.2.5. 0.005 0.005 N.D. mg/kg 2603 Benzene mg/kg 2604 Toluene N.D. N.D. 0.005 2606 Ethylbenzene 5327

mg/kg Total Xylenes
TPH - GRO CA LUFT (Soils) mg/kg 0.015 N.D. N.D. 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).

5555

QUALITY CONTROL REPORT

SAMPLE SAMPLE RPT LIM UNITS	BLANK Batch: 98076A33	DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS I LOW	LIMITS HIGH
2464 Methyl tertiary butyl ether 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	.=.=.=	.=.=.5	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 at (717) 656-2300 132857 605937 Melissa A. McDermott 20:33:53 D 0001 21 417 15:00 00020450 ASR000









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

SAMPLE

RPT LIM

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

UNITS

BLANK

TRIAL ID

DUP RPD

Suite 501

Mobil Business Resources Corp.

LCS DUP

P.0.

Rel.

LCS LIMITS LOW HIGH

SURROGATE SUMMARY

Account No: 09728

2063 Main Street

Oakley CA 94561

2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils) SURROGATE TFT TFT 1C3FB

=.=.=.=.=.=.=

RECOVERY * 85 85 104

MSD

SURROGATE LIMITS LOW 70 70 70

RPD

LABORATORY CHRONICLE

CAT NO ANALYSIS NAME 2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

METHOD SW-846 8020A, mod. CA LUFT /SW-846 8020A, mod.

ANALYSIS TRIAL ID DATE AND TIME

03/18/98 1456 Dawn Boley 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

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

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





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

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

4/23/98 Discard:

5550

AB-13 (5-6') Soil Sample LOC# 99-105 PRCA# 980044 PHC# 2L Proj# 41-0123-50

Mobil: 6301 San Pablo Ave. Oakland, CA

TPH-GRO CA LUFT & BTEX(Soils)

Account No: 09728

Mobil Business Resources Corp.

2063 Main Street

Suite 501

Oakley CA 94561

P.0. Reī.

AS RECEIVED

REPORTING CAT UNITS ANALYSIS NAME RESULTS LIMIT NO.

mg/kg 2464 Methyl tertiary butyl ether _,_.<u>_</u>._._.e.e.e.e.e.e.e.e.e.e.e.e.e.e.

.=.=.=.=.=.=.=.=.=.=.=.=.=.=.=.=.=.#.# 0.005 N.D. mg/kg 2603 Benzene 2604 N.D. 0.005 mg/kg Toluene mg/kg mg/kg 0.005 N.D. 2606 Ethylbenzene Total Xylenes
TPH - GRO CA LUFT (Soils) 0.015 5327 N.D.

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 SAMPLE RPT LIM UNITS 2464 Methyl tertiary butyl ether	BLANK Batch: 98076A33	DUP RPD	MS 100	MSD 86	MS RPD 15	LCS 105	LCS Dup	LCS RPD	LCS L LOW	IMITS HIGH 130	
1. mg/kg	N.D.		100	00	13	105			70	100	
5550 TPH-GRO CA LUFT & BTEX(Soils)	Batch: 98076A33										
0500 B											
2603 Benzene 0.005 mg/kg	N.D.		87	78	11	95			70	130	
2604 Toluene			00	75	10	00			70	130	
0.005 mg/kg	N.D.		83	75	10	90			70	150	
2606 Ethylbenzene 0.005 mg/kg	N.D.		92	84	9	101			70	130	
5327 Total Xylenes	N.D.		87	79	10	95			70	130	
0.015 mg/kg	R.D.		0,	,,	10	,,,					
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

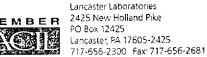
1 COPY TO Alton Geoscience

ATTN: Tom Seeliger

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

417 15.00 00020450 ASR000







LLI Sample No. SW 2889588 by JM

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

SAMPLE RPT LIM SAMPLE

UNITS

BLANK

TRIAL ID

DUP RPD

Suite 501 Oakley CA 94561

Account No: 09728

2063 Main Street

MS

Mobil Business Resources Corp.

MSD

LCS LCS DUP

P.O.

Rel.

LCS LIMITS LOW

SURROGATE SUMMARY

2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

SURROGATE TFT TFT 1C3FB

RECOVERY % 96 96 ------

SURROGATE LIMITS HIGH 130 130 130

LABORATORY CHRONICLE

CAT NO ANALYSIS NAME 2464 Methyl tertiary butyl ether 5550 TPH-GRO CA LUFT & BTEX(Soils)

SW-846 8020A, mod. CA LUFT /SW-846 8020A, mod. ANALYSIS

TRIAL ID DATE AND TIME ANALYST 03/18/98 1554 Matthew T. Balmer

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) $656 \cdot 2300$



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



For Lancaster Laboratories use only

3 28 Sample #: 2999576-96

Mobil Complex 1997	Please print.			SCR#:				
Mobil Consultant/Office: Alton GROScience	Matrix Analyse	s Requeste	ed List to	tal number of containe	rs in the			
Consultant Prj. Mgr: Tom Sacher Prj. #: 41-0123-50				and each analysis.				
Consultant Phone #: 150 606 - 9153 Fax #: (500 606 - 050								
Location Code #:99-/05 PRCA/AFE/Release #:960/35	8 S						ceipt	
Commitment Code #: Phase Code: ZL	Potable I NPDES S		1 1				9 6	
Site Address: 6301 Say Pablo Ave. Onte State: CA			1 1		0.00	30.3 医电流系统	dn	
Sampler: Jake Madden		*					iajdu	
Sampler: Jake Madden Mobil Engineer: Chevine Foutch	7 6 2	껆					of san	
	# P 1	图					\$ <u>\</u>	
Sample Identification Date Time & Collected Collected & S	Water □ Potable □ NPDES ON□ Air □ □ NPDES ON□ Air □ □ NPDES □ Total # of Containers	E					perat	
AB-1 -(5-61) 3-5-99	x		-		MC		(f em	
			 -	╅	CONF	Erm Highe	2	
AB-3-(5,5°)			 		Sil	and		
DR 11 (- 0)					Gron.	ndunkern;	th	
AB-5-(3-4')		\subseteq			FOF	8760		
001	\times				COA	Firmation		
						F. T. T. P. P. C. C.		
AB-7 - (4-5")	λ IX x			 	- - 		.3.0%	
AB-8-(5")	X I I X X	> -						
AB-9-(4')	X I I X	} - - 						
AB-10-(4')		>						
Turnaround Time Requested (TAT) (please circle): Relinquished by/		Date	T	<u> </u>				
MOBIL STD. TAT 72 hour 48 hour	_/	Date	Time	Received by:		Date	Time	
24 hour other day Relinquished by:		Date	Time	Received by:				
Data Package Options (please circle if requested) SDG Complete?			11110	neceived by.		Date	Time	
QC Summary GLP Yes No Relinquished by:		Date	Time	Received by:				
Type II (NJ Red. Del.) Disk Site-specific QC required? Relinquished by		_		Macanad by.		Date	Time	
Type IV (CLP) Yes No (If yes, indicate QC sample and submit triplicate volume. Relinquished by:	·	Date	Time	Received by:		Date	Time	
Time VI (Paus Data)						Date	inne	
WIP required? Yes No Relinquished by:		Date	Time	Received by:		Date	Time	
2425 New Holland Pike PO Rox 12425 Lagranter RA 17505 2425				Lape	- Doll	- 3-70 E	91	

IVIOUIT Western Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
Sample #: 2989576-96

Mobil Consultant/Office: Alton C-eoscieuce	Please print.		SCR#:					
Consultant Pri Mary + CALL Co.	Matrix Analys	es Request	ed List to	etal number of containers in t nder each analysis.	he l			
Consultant Prj. Mgr: + au Seeliger Prj. #: +1-0123-53 Consultant Phone #: (510) 606-9150 Fax #: (510) 606-9760								
Location Code #: 99105 PRCA/AFE/Release #: 960155	- -18						t	
Commitment Code #: PRCA/AFE/Release #: 96155	T Signal I						ecei	
Commitment Code #: Phase Code: ZL	Postab NPDE	*					8	
Site Address: 6701 ran Pablo Oakland State: CA Sampler: Jam Maddan	D Negation D Neg	Liv					lo Sa	
		\odot					dute	
Fouter &	H of C						ું કું કું	
Sample Identification Date Time Solution Collected Collected 5	Soil Water Oil D. Air D. Total # of Con	2			1277		attur	
AB-11-(5-6') AB-17 3-98	Soil Water □ Potable □ NPDES Oil □ Air □ Total # of Containers TPH-G (BTE				Remarks		196	
	XIIIX	X				-	/ 严慧。	
AB-12-(5-6) AB-130	X	X			Confi.	M His	het	
AB-13-(5-6') A-1-3"	XIX		 		MTBe			
AB-1 1300	VUV	$\dot{\chi}$	 	 	\$260	CONFIG	MADI	
2 AB-Z 1310	XYX			 	for s.	il +64	W	
3 AB-3 1320	▔▔▕▗▘▝▄▘▍▄▘▐▗▃▍▄ ▝ ▗	~				_		
00-11	X $ Y X X$						309	
no /	1/1 1/1/X)							
/ ^^ ^	X Y X Y							
7 10 10	X Y X							
Turnaround Time Populated Time	<u> </u>					··· <u></u>		
FIOTH CT. THE		Date	Time	Received by:				
		_	i	,		Date	Time	
Relinquished by:		Date	Time	Received by:		Date	Time	
Data Package Options (please circle if requested) SDG Complete? QC Summary GLP Yes No Relinquished by:						Dotte	lime	
Type I (Tier I) Other Site and Site of the		Date	Time	Received by:		Date	Time	
Type III (NJ Red. Del.) Disk Type IV (CLP) Site-specific QC required? Yes No (If yes, indicate QC sample Relinquished by:		Date	Time					
Type IV (CLP) and submit triplicate volume.	·	Date	Time	Received by:		Date	Time	
Type VI (Raw Data) Internal Chain of Custody Relinquished by: required? Yes No		Date	Time	Regerved by:				
2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Conject Militing	····			Received by:	20	Date 3 798	Time Size	

Mobil Western Region Analysis Request/Chain of Custody





For Lancaster Laboratories use only

Acct. #: 9728 Sample #: 789576-76

Mahil Complexity (1)		Ple	ase pr	int.							SCR#:		_
Mobil Consultant/Office: Alton Geoscien	<u>ee</u>	Matrix	A	nalyses R	equeste	d List to	tal number of ider each anal	Containers i	n the				
Consultant Prj. Mgr:	06-9260	☐ Potable ☐ NPDES		Ę×.									oles upon receipt
Sample: Jake Madden Mobil Engineer: Cherine Fould Sample Identification Date Gollected Go	Time		이라 AirG Total # of Containers	MIRE									iperature of sami equested)
8 AB-11 3-5-98 14	150	X	4	XX		-					ks inf:rm		<u> </u>
										MI	3E US	149	
			 - 		-					for	50;1	+6	
													3.09
Turnaround Time Requested (TAT) (please circle): Reli							 		+-+				
MOBIL STD. TAT 72 hour 48 hour	inquished by:	4			Date	Time	Received	by:	- 1 !.	4.	·	Date	Time
Data Package Options (please circle if requested) SDG Complete?	inquiried by:				Date	Time	Received	by:				Date	Time
Type I (Tier I) Other Site specific OC	inquished by:				Date	Time	Received	by:				Date	Time
Type IV (CLP) Yes No (If yes, indicate QC sample and submit triplicate volume.	inquished by:		·_		Date	Time	Received	by:	 ·			Date	Time
Type VI (Raw Data) Internal Chain of Custody Reli WIP required? Yes No	inquished by:	- . <u></u> .	 -	· <u> </u>	Date	Time	Received	-		20.00		Date	Time
2425 New Helland Dike PO Roy 12425 Tancester PA 12505 2425 (242) Co.					<u> </u>		1	che		U.C.	/ 3	158	9:0

IVIODII. Western. Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only

Acct. #: 9728 Sample #: 2894850-51

Mobil Consultant/Office: Allon Geoscience (Civermore Matrix Analyses Requested list total number of containers in the												SCR#:						
Mobil Consultant/Office:	Alton Ge	Science	_/Civ	e/M.	. <u>/</u>	Matrix	A	naly	ses R	equeste	d List tota	al number o	f contain	ers in the				
Consultant Prj. Mgr:(0 00)	<u>Seeliger</u> Prj	#: <u>41-0</u>	123-5	0	_ *										7			
Consultant Phone #: (5(8) G	56-9150 Fax	(#: <u>(560)(</u>	06-92	60_	_	-												ipt
Location Code #: 99-10	PRCA/AFE/F	elease #:	96013	5	_ `	물업		\					ľ					Je.
Commitment Code #:	Ph	se Code	レユ			☐ Potable ☐ NPDES			1									uod.
Site Address: 630/	San Pas	1s Are	State: C	A			Siers	Ţ	j l									les u
Sampler: Jake	Madde						ıtair	1/	M									dues
Mobil Engineer: Cherin			· · · · · ·		site		 # of Co	7-t					!					늄
Sample Identification		Date Collected	Time Collected	Srab	Composite	Water	Oil Car Air Cartainers	#d±	MT									Temperature (if requested)
	AB-13	3-16-48	i	X			4	7	X		-	+		\vdash	Remar			
	AB-12	7-1698	 	<u> </u>	+	 						+	-	-	ton	pZo	<u>c</u>	200
<u> </u>	_ FID	D-116-98	1530			+	14	$+\times$	14			-			_ <i>ZB</i>	3-18	-98	1
	<u> </u>		 	\vdash	+	-		_				1			<u> </u>		-· <u></u>	
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Turnaround Time Requeste	ed (TAT) (please circle		Relinquist	ed./ov:	!	1/1		1	Ll.	Date	Time	Receive		<u> </u>			 _ -	
MOBIL STD. TAT 72 he	our 48 he	our	h	<u>(</u>		Mrc	l d	_		30.0	line	VECCING	u by.				Date	Time
24 hour othe	r day	-	Relinquish	ed by:		<u></u> _	One		<u></u>	Date	Time	Receive	d bv:				Date	Time
Data Package Options (please	circle if requested) SD0	Complete?			_								-,-				Jake	Anne
QC Summary GLP		es No	Relinquish	ed by:						Date	Time	Receive	d by:		······································		Date	Time
Type I (Tier I) Other	Site-specific QC rec		 			·												
Type III (NJ Red. Del.) Disk Type IV (CLP)	Yes No (If yes, indic and submit triplicate vol-	ate QC sample ame.	Relinquish	ed by:						Date	Time	Receive	d by:				Date	Time
Type VI (Raw Data) WIP	Internal Chain of C required? Yes N	ustody Io	Relinquish	ed by:			•			Date	Time	Receive	. 1			_	Date	Time
!	-		l		—							<u> </u>	<u>_</u>	0~/	WIO	202	2/1/18	108-41