Mobil Oil Corporation

3800 WEST ALAMEDA AVENUE, SUITE 700 BURBANK, CALIFORNIA 91505-4331

November 8, 1989

Mr. Rick Mueller
Pleasanton Fire Department
P. O. Box 520
Pleasanton, CA 94566-0802

MOBIL OIL CORPORATION FORMER S/S 10-H6J 1024 MAIN STREET PLEASANTON, CALIFORNIA

Dear Mr. Mueller:

Enclosed for your information and review is the Status Report on Tank Removal and Soil Sampling, dated October 27, 1989, for subject location.

Two initial soil samples taken from the 12 foot depth were 6000 ppm from the west side of tank number two and 9000 ppm from the west side of tank number three. Values are for TPH as gasoline. Additional samples taken with a backhoe at 19 feet from west side of tank two and 22 feet from tank three were 890 and 2400 ppm TPH as gasoline respectively.

We propose to install four borings around the contaminated area, with one of the borings installed in the area of the highest concentration of TPH to define the vertical extent of the contamination. Once the borings and soil analysis are complete, we plan on excavating and segregating the soil. Further reports and analysis will be forthcoming shortly.

If you have any questions, please feel free to contact me at (818) 953-2519.

Sincerely,

David M. Noe, P.E. Environmental Advisor

DMN:st attachment

cc: Mr. Rafat Shahid (w/ attachment)
Alameda County Environmental Health Department
470 27th Street, Room 324, Oakland, CA 94612

Mr. Rick Mueller Page 2

CC: Ms. Dyan Whyte (w/ attachment)
 Regional Water Quality Control Board
 1800 Harrison Street, Room 700
 Oakland, CA 94612

S. Pao

### ALTON GEOSCIENCE, INC.

October 27, 1989

Mr. Steve Pao Mobil Oil Company 3800 W. Alameda Ave., Ste. 700 Burbank, California 91505-4331

30-065

Subject: Status Report on Tank Removal and Soil Sampling at Mobil Oil Service Station No. 04-H6J, 1024 Main Street, Pleasanton, California

Dear Mr. Pao:

Alton Geoscience, Inc. is pleased to submit this letter report presenting the results of the activities and soil sampling related to the removal of underground storage tanks at the former Mobil Oil Service Station No. 04-H6J, located at 1024 Main Street, Pleasanton, California.

#### INTRODUCTION

A closure plan was submitted to and approved by the City of Pleasanton Fire Department, for the removal of four underground storage tanks and closure of the service station operations. A site map showing the present condition of the site and the layout of the former underground tanks is presented as Figure 1.

Mobil Oil Company retained Balch Petroleum and Alton Geoscience to conduct the tank removal activities. Balch Petroleum excavated and removed the tanks, and subcontracted H&H Ship Service Company (H&H) to transport and dispose of the tanks. Alton Geoscience observed and noted the tank removal activities and conducted the soil sampling (as required by local and state regulations governing underground fuel storage tanks).

#### TANK EXCAVATION ACTIVITIES

On October 17, 1989, Balch Petroleum initiated the removal of four underground storage tanks by rinsing the tanks with water and placing dry ice into the tank through

## SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX St., Ste. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

## CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80175 CLIENT: Alton Geoscience CLIENT JOB NO.: 30-065

DATE RECEIVED: 10/23/89 DATE REPORTED: 10/24/89

# ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB		Concentrati	on (mg/kg)
=	Sample Identification	Gasoline Range	Diesel Range
1	Tank 2-east @16'	30	ND<10
2	Tank 2-west @19'	890	10
3	Tank 3-west @22'	2400	ND<50
4	Tank Fill Soil Pile	170	ND410
5	Tank & Native Soil Pile	240	10

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline and Diesel in Soil: 10 mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 3

RPD Diesel = 6

MS/MSD Average Recovery = 86%: Duplicate RPD = 4

Edward R. Morales

Laborator Manager

the fillpipe, following the required safety procedures to inert the remaining hydrocarbon vapors inside the tanks. Approximately 1,500 gallons of fuel and water rinsate were pumped from the tanks into a vacuum truck and transported to H&H permitted facility as hazardous waste. The hazardous waste manifest for the tank rinsate is included as Appendix A.

Mr. Rick Meuller, Chemical Specialist, from the City of Pleasanton Fire Department was also present on October 17, 1989, to inspect the interior of the tanks by measuring lower explosive levels (LEL) and percent oxygen, and to determine if the tanks were safe for transport. The LEL and percent oxygen levels were acceptable, and Mr. Mueller allowed the tanks to be removed.

Upon removal, the tanks were visually inspected for evidence of corrosion and holes. There were in any of the tanks; however, of the tanks are in the interpretable of the tanks is shown in Table 1.

TABLE 1: Description of the Tanks Removal

Tank No.	Description	<u>Visual Observation</u>
1	8,000 gallon gasoline	Fair to good condition with no visible holes.
2	6,000 gallon gasoline	Rusted, fair condition with no visible holes.
3	4,000 gallon gasoline	Fair condition with no visible holes.
4	300 gallon waste oil	Very rusted, fair to poor condition

The tanks were then transported and hauled offsite by H&H, and manifested as hazardous waste. The hazardous waste manifests for the tanks are also included in Appendix A.

### INITIAL SOIL SAMPLING ACTIVITIES

Following removal of the tanks, two soil samples were collected beneath former Tanks 1, 2, and 3, at approximately 12 feet below grade. One soil sample was also collected beneath former Tank 4, at approximately 8 feet below grade. The samples were collected from a depth of 6 to 12 inches below the bottom of the tanks (as required by Mr. Meuller). The approximate sampling locations are shown in Figure 1.

### ANALYTICAL RESULTS - INITIAL SOIL SAMPLING

On October 18, 1989, Alton Geoscience submitted eight soil samples to Superior Analytical for analysis by EPA method 8015 for total petroleum hydrocarbons (TPH) - low and high boiling points, as gasoline and diesel. The laboratory results indicate detectable concentrations of low boiling point (gasoline) hydrocarbons at levels ranging from 20 parts per million (ppm) to 9000 ppm, and high boiling point (diesel) hydrocarbons at levels ranging from 30 ppm to 40 ppm. The laboratory report and chain of custody records are presented as Appendix B.

### SUBSEQUENT SOIL SAMPLING

As a result of the initial soil analysis, further excavation of the fuel tank area was conducted to remove the soil in the areas with high detectable concentrations of TPH. The areas identified were on the east and west ends below Tank 2, and on the west end below Tank 3.

On October 20, 1989, Alton Geoscience collected eight additional soil samples during excavation, as follows:

- o Three additional soil samples were collected from below the tanks (where initial sampling and analysis indicated high gasoline concentrations were present).
- O Two composite soil samples from two soil stockpiles (one from the backfill materials above and around the tanks, and the other from the backfill materials and native soil to 12 feet below grade level).

O. Three soil samples were collected from the sidewalls of the excavation.

The soil samples were submitted to Superior Analytical for TPH (high and low boiling points) analysis by EPA method 8015. The samples obtained from the excavation sidewalls were placed on hold in the laboratory, and have not been analyzed.

During the tank removal and soil excavation activities, Balch Petroleum removed approximately 260 cubic yards of soil from the excavation activities. This soil is currently stockpiled and covered with plastic at the site in three separate piles: (1) waste oil tank backfill material from 0 to 8 feet below grade, (2) gasoline tank backfill material from 0 to 9 feet below grade, and (3) gasoline tank backfill and native soil from 9 to 12 feet below grade.

## ANALYTICAL RESULTS - SUBSEQUENT SOIL SAMPLING

Laboratory analysis of soil samples collected during excavation found detectable concentrations of gasoline-range TPH at levels ranging from 30 ppm to 2400 ppm, and diesel-range TPH at levels ranging from 10 to <50 ppm. The laboratory report and chain of custody records are presented as Appendix C. A summary of the analytical results for both sampling episodes are presented in Table 2.

### CONCLUSIONS

Observation of field activities and analytical results of soil sampling indicate the presence of detectable hydrocarbon concentrations of up to 2,400 ppm remaining in the gasoline fuel tank pit at depths of approximately 22 feet below grade in certain areas. Laboratory findings indicate that no detectable hydrocarbons are present in the waste oil tank pit at depths of 8 feet below grade.

Table 2: Summary Of Analytical Results For Initial and Subsequent Soil Sampling

Tank No.	Sample Location (feet)	TPH Gasoline (concentrations	TPH Diesel mg/kg)	Sampling Date
1	East-12 West-12	ND<10 20	ND<10 ND<10	10/17/89 10/17/89
2 2 2 2	East-12 East-16 West-12 West-19	30	30 ND<10 40 ND<10	10/17/89 10/20/89 10/17/89 10/20/89
3 3 3	East-12 West-12 West-22	20 9000 2400	ND<10 30 ND<50	10/17/89 10/17/89 10/20/89
4	Center-8	ND<10	ND<10	10/17/89
-	Composite Stockpile No. 1*	50	ND<10	10/17/89
9 <b>2</b>	Composite Stockpile No. 2**	170	ND<10	10/20/89
-	Composite Stockpile No. 3***	240	10	10/20/89

Notes: \* Waste oil tank backfill material

<sup>\*\*</sup> Gasoline tanks backfill material: 0-9 feet
\*\*\* Gasoline tanks backfill & native soil: 9-12 feet

A copy of this letter report should be submitted to:

Mr. Rick Meuller Chemical Specialist City of Pleasanton Fire Department 4444 Railroad Street Pleasanton, California 94566

Alton Geoscience is pleased to be of service to Mobil Oil Company. If you have any questions or need additional information, please call.

Sincerely,

ALTON GEOSCIENCE INC.

There D'and

Cherie D'Andrea

Project Manager/Geologist

Al Sevilla

Operations Manager

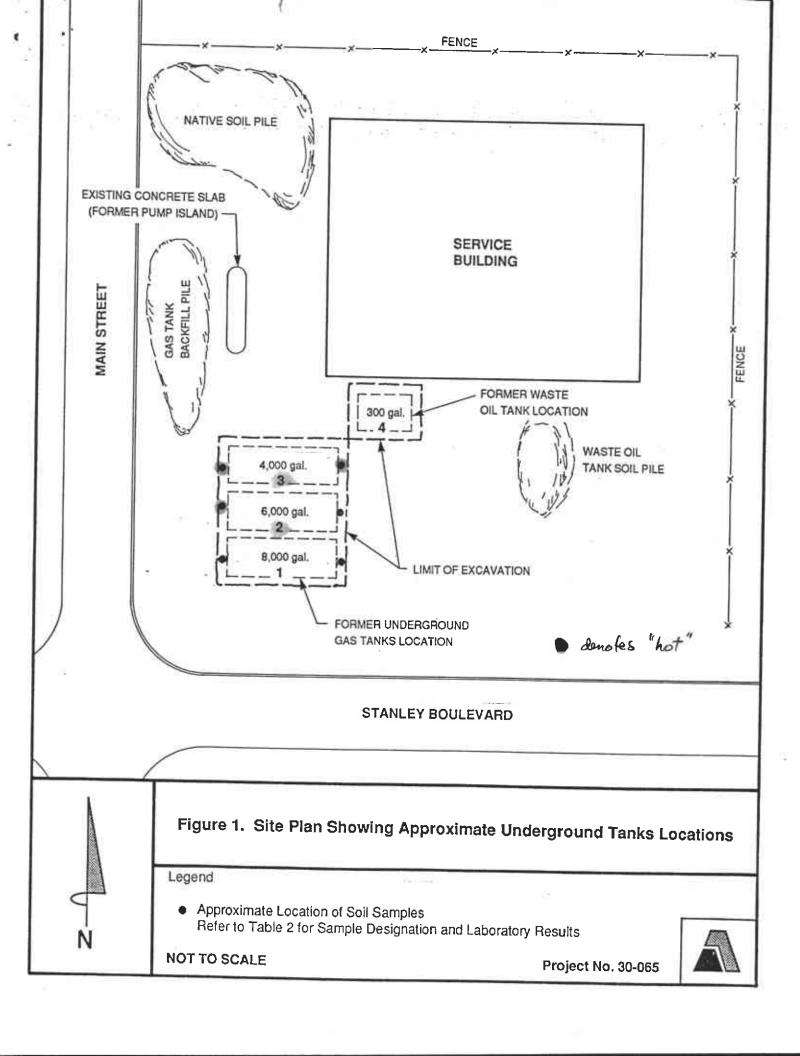
Registered Civil Engineer

PROFESSIONAL CAST OF CALIFORNIA CONTRACT OF CALIFORNIA

cc: Mr. David Noe, Mobil Oil Corporation, Burbank, California

## FIGURE 1

Site Plan Showing Former Underground Storage Tank and Soil Sampling Locations



## APPENDIX A

Hazardoùs Waste Manifests For Tank Rinsate and Tanks

SACA GIONG'N DISS GILDBITT

1	WASTE MANIFEST  3. Generator's Name and Mailing Address	I Do	Manifest cument No.				the shaded areas by Federal law.
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	A. Generator's Phone (813' 953-2518)  5. Transporter 1 Company Name	Pleasanton,		7,7	ite Generator's ID	i	
	Lucia De Cara	US EPA ID Number	وادلول	D. Tre	ate Transporter's Insporter's Phone		03745
	9 Designated Facility May 19		111		ite Transporter's I insporter's Phone	D [41	5) 543 4035
	H & H Ship Service Company 220 China Basin Street	US EPA ID Number		H. FER	ate Facility's ID		11166
	11. US DOT Description (Including Proper Shipping Name, Hazard Cla	Al Diele 4171711 ss, and ID Number)	12. Con	tainers	15) 543-25 13. Total Quantity	14. Unit	L. Waste No.
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	c.		01011	TIP	ولواونولو	P	EPA/Other
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	J. Additional Descriptions for Materials Listed Above PUVPED OUT 6,000 gallon tank and 4,	Selection and the according	1.00	K Her	I I I I	(color I	
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IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

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DHS EPA (Re-

Bacramento, California.

## APPENDIX B

Laboratory Report and Chain of Custody Records For Initial Soil Sampling

# SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX St., Ste. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80166 CLIENT: Alton Geoscience CLIENT JOB NO.: 04-H6J

DATE RECEIVED: 10/18/89 DATE REPORTED: 10/20/89

# ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB	Sample Identification	Concentrati	on (mg/kg)
=		Gasoline Range	Diesel Range
1	Tank #1, east 12' Tank #1, west 12' Tank #2, east 12' Tank #2, west 12' Tank #3, east 12' Tank #3, west 12' Tank #4, center 8' Composite (pile)	ND<10	ND<10
2		20	ND<10
3		8100	30
4		6000	40
5		20	ND<10
6		9000	30
7		ND<10	ND<10
8		50	ND<10

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline and Diesel in Soil: 10 mg/kg

## QAQC Summary:

Daily Standard run at 200 mg/L: RPD Gasoline = 9 RPD Diesel = 2 MS/MSD Average Recovery = 113%: Duplicate RPD = 10

Edward R. Morales

Abouto Manager

# MT# 80 166



ALTON GEOSCIENCE 16510 ASTON ST. IRVINE, CA. (714) 261-0674

# CHAIN of CUSTODY RECORD

PAGE [ of ) DATE: 10/18/89 .

RESULTS DUE BY: 10

PROJECT NUMBER: 30-065

PROJECT NAME AND ADDRESS: HOBIL STATION 04-H6J

PROJECT MANAGER: C.D'ANDREA

SAMPLER'S SIGNATURE: Chui Dans

REMARK	S OR SPEC	CIAL INSTRUCTIONS:				T	6	ALID	I F DOED	_			ORY:	-	-			
48 1	K. T.A	T					. 5	T	LE PREP.	1=1	SOIL A	NALY	SIS	-	WAT	ΓER	ANA	LYS
NOTE: PLE, THIS	EASE INDICA IS BOX.	ATE VERBAL REQUESTS	FOR ADDITION/	<sup>A</sup> L ANALYSE	.S IN	NUMBER OF CONTAINERS	SOLV, EXTR.	3810: HEAD SPACE	5030: PURGE & TRAP	TPH Chigh & low boiling)				418.1: TPHC (IR)	601: HALOCARBONS	FE	DHS METHOD: TPHC (GC)	7421: TOTAL Pb
NUMBER	SAMPLE DATE/TIM	E LOCATION/ ME DESCRIPTION	SAMPLE	SAMPI	LE TYPE:	1 0	3510; S		30: P	12				11	HAI	602: BTXE	ME	1:1
1	2000	See Control of the Co	MATERIAL	GRAB	COMP,	1/	35	8	S	12				418	109	602	PHS	7421
-	10/18/8									X				$\Box$			7	1
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3		Tank #2, east, 12'							-	+	+	+	+	-	-	+	+	+
4		Tank #5, Wast, 12"						$\forall$	-	+	+		+			+	+	+
5		Tank #3, east, 12'					1	1	-	+	+	+	+	+	-	-	+	+
6		Tunk #31 west, 12					+	+		+	++	+	+	+	+	-	+	+
7		Tank #3, west, 12'  Tank #4, center,  Composite (pile)					+	+		#	+	_	+	+	+	+	+	+
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# SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX St., Ste. D. · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

# CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80175 CLIENT: Alton Geoscience CLIENT JOB NO.: 30-065

DATE RECEIVED: 10/23/89 DATE REPORTED: 10/24/89

# ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB	Sample Identification	Concentrati Gasoline Range	on (mg/kg) Diesel Range
1 2 3 4 5	Tank 2-east @16' Tank 2-west @19' Tank <b>3</b> -west @22' Tank Fill Soil Pile Tank & Native Soil Pile	30 890 2400 170 240	ND<10 40 ND<50 ND<10

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline and Diesel in Soil: 10 mg/kg

### QAQC Summary:

Daily Standard run at 200 mg/L: RPD Gasoline = 3 RPD Diesel = 6 MS/MSD Average Recovery = 86%: Duplicate RPD = 4

Edward R. Morales

Laboratory Manager

	AL	TON C	GEOSCIENCE			CHAIN	of CUS	TODY	RE	COF	RD	-			_		DAT	<b>.</b>	10/2	-31	81
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NOTE: PLE	_ an _ ell		VERBAL REQUESTS	FOR ADD	DITIONAL	ANALYSE:	s in	NUMBER OF CONTAINERS	SOLV. EXTR.	3910: HEAD SPACE	5030: PURGE & TRAP		8012 (HEH/107)	70			418.1: TPHC //B)	601: HALOCARBONS	KE	DHS METHOD: TPHC (GC)	7421: TOTAL Pb
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## APPENDIX C

Laboratory Report and Chain of Custody Records For Subsequent Soil Sampling

## SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX St., Ste. D. • SAN FRANCISCO CA 94124 • PHONE (415) 647-2081

#### CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80166 CLIENT: Alton Geoscience

CLIENT JOB NO.: 04-H6J

DATE RECEIVED: 10/18/89 DATE REPORTED: 10/20/89

### ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB		Concentration (mg/kg)						
=	Sample Identification	Gasoline Range	Diesel Range					
5555								
1	Tank ≠1, east 12'	ND<10	ND<10					
2	Tank #1, west 12'	20	ND<10					
3	Tank #2, east 12'	8100	30					
1	Tank #2, west 12'	6000	4.0					
5	Tank #3, east 12'	20	ND<10					
6	Tank #3, west 12'	9000	30					
7	Tank #4, center 8'	ND<10	ND<10					
8	Composite (pile)	50	ND<10					

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline and Diesel in Soil: 10 mg/kg

### QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 9

RPD Diesel =

MS/MSD Average Recovery = 113%: Duplicate RPD = 10

Edward R. Morales

MT# 80 166



ALTON GEOSCIENCE 16510 ASTON ST. IRVINE, CA. (714) 261-0674

## CHAIN of CUSTODY RECORD

PAGE 1 of )

DATE: 10/18/89

RESULTS DUE BY: 10

PROJECT NUMBER:	30-065
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PROJECT NAME AND ADDRESS: HOBIL STATION

04-H6J

PROJECT MANAGER:	C.D'ANDREA
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SAMPLER'S SIGNATURE: Checi Da

LABORATORY Superior

REMARKS OR SPECIAL INSTRUCTIONS:  48 H. T.A.T.  NOTE: PLEASE INDICATE VERBAL REQUESTS FOR ADDITIONAL ANALYSES IN THIS BOX.						NUMBER OF CONTAINERS	SAMPLE PREP.			SOIL ANALYSIS				WATER ANALYSI				
							SOLV. EXTR.	HEAD SPACE	5030: PURGE & TRAP	( Kited belief)				418.1: TPHC (IR)	HALOCARBONS		OD: TPHC (GC)	T
NUMBER	SAMPLE DATE/TIME	LOCATION/ DESCRIPTION	SAMPLE	SAMPI	LE TYPE:	0	3510: S	3810: HEAD	330: P	OHOL				418.1; T	601: HA	602: BTXE	SME	7421: TOTAL
1	10/18/89	CONTRACTOR ADVANCE	Soi J	GRAB	COMP.				<u> </u>	-	_		_				ä	
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4		Tank # 2, Wast, 12'						7		#	+	+	+	H	-	$\dashv$	+	+
5		Tank#3, east, 12'						+		+	$\vdash$	_			+	+	+	+
6		Tunk #3, west, 12'						7		╫	-	$\dashv$	+	$\vdash$	$\dashv$	+	+	+
7		Tank # 4, center,						$\dashv$	$\dashv$	#	+	-	-		+	+	+	+
8	4	Tank # 31, west, 12' Tank # 4, center, Comparete (pile)	1		×					1					+	+	+	+
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