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

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

C E R T I F I C A T E O F A N A L Y S I S

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	Concentration (mg/kg) 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	ND<10
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

Laboratory 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 no visible holes in any of the tanks; however, [redacted] of the tanks appeared to be in poor condition. A description of the tanks is shown in Table 1.

TABLE 1: Description of the Tanks Removal

Tank No.	Description	Visual Observation
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 [redacted] visible holes.

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:

- Three additional soil samples were collected from below the tanks (where initial sampling and analysis indicated high gasoline concentrations were present).
- 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).

- 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	ND<10	ND<10	10/17/89
1	West-12	20	ND<10	10/17/89
2	East-12	8100	30	10/17/89
2	East-16	30	ND<10	10/20/89
2	West-12	[redacted]	40	10/17/89
2	West-19		ND<10	10/20/89
3	East-12	20	ND<10	10/17/89
3	West-12	9000	30	10/17/89
3	West-22	2400	ND<50	10/20/89
4	Center-8	ND<10	ND<10	10/17/89
-	Composite Stockpile No. 1*	50	ND<10	10/17/89
-	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
** 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.

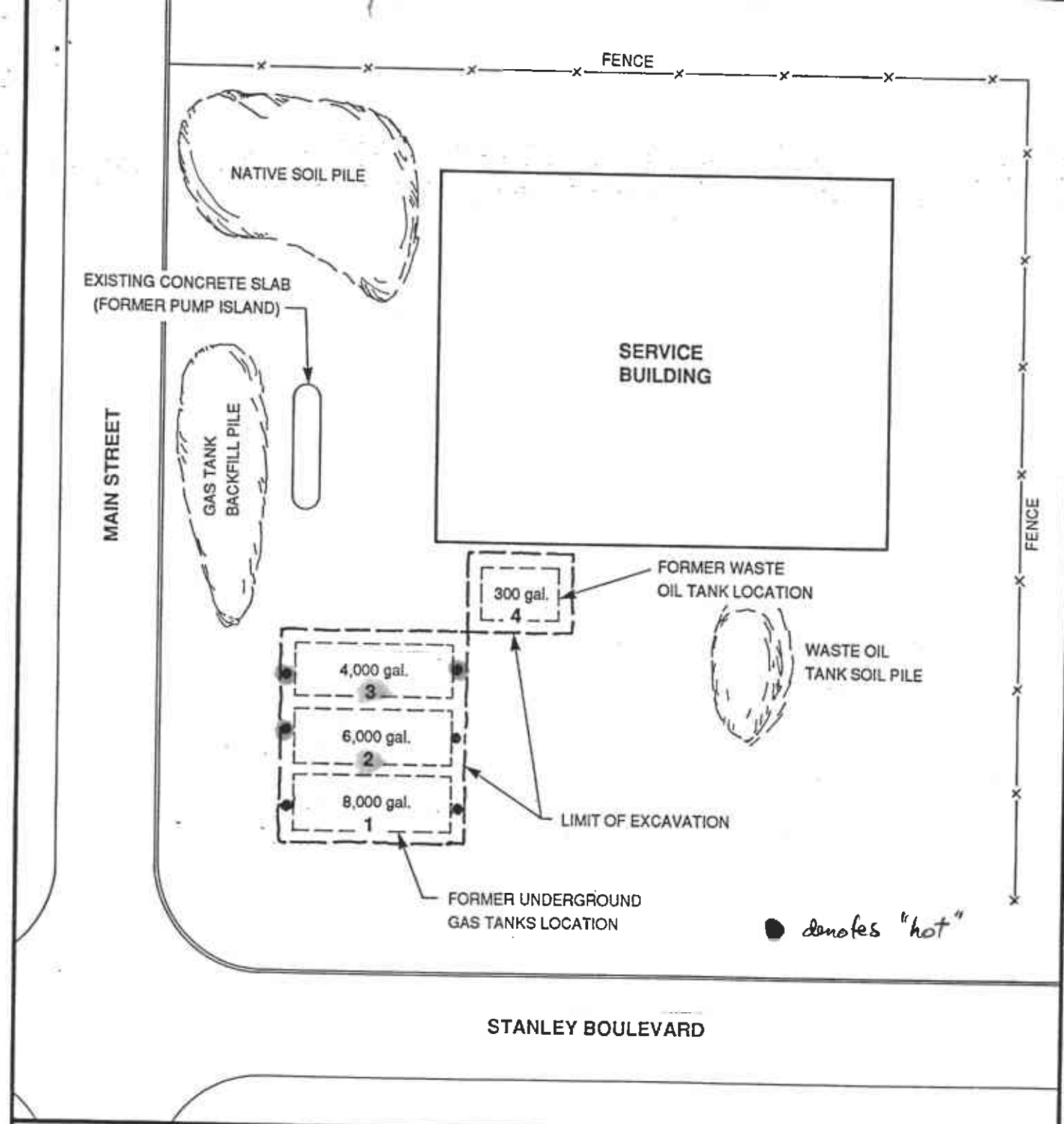
Cherie D'Andrea
Project Manager/Geologist

Al Sevilla
Operations Manager
Registered Civil Engineer

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

FIGURE 1

Site Plan Showing Former Underground Storage Tank and Soil Sampling Locations



N

Figure 1. Site Plan Showing Approximate Underground Tanks Locations

Legend

- Approximate Location of Soil Samples
  Refer to Table 2 for Sample Designation and Laboratory Results

NOT TO SCALE

Project No. 30-065

APPENDIX A

Hazardous Waste Manifests For Tank Rinsate and Tanks

...ds—Health and Welfare Agency
Form OMB No. 2050-0039 (Expires 9-30-91)
Type (Form designed for use on elite (12-pitch typewriter)

Department of Health Services
Toxic Substances Control Division
Sacramento, Calif.

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. CIA|C|0|0|0|2|6|0|8|3 | Manifest Document No. 0|0|0|0|1 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3 Generator's Name and Mailing Address
MOBIL OIL
3800 W. Alameda Avenue, Suite 2000
Burbank, California 91505-4331

JOB SITE: MOBIL #04-H6E
1024 Main Street
Pleasanton, CA

4 Generator's Phone (818) 953-2518

A State Manifest Document Number 89495969

B State Generator's ID

5 Transporter 1 Company Name: H & H Ship Service Company | 6 US EPA ID Number: CIA|D|0|0|4|7|7|1|1|6|0

C State Transporter's ID 003757

D Transporter's Phone (415)543-4835

7 Transporter 2 Company Name | 8 US EPA ID Number

E State Transporter's ID

F Transporter's Phone

9 Designated Facility Name and Site Address: H & H Ship Service Company
720 Illinois Street
San Francisco, CA 94107 | 10 US EPA ID Number: CIA|D|0|0|4|7|7|1|1|6|0

G State Facility's ID: CIA|D|0|0|4|7|7|1|1|6|0

H Facility's Phone (415) 643-4835

11 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12 Containers No.	Type	13 Total Quantity	14 Unit Wt/Vol	Waste No.
a. HAZARDOUS WASTE LIQUID, N.O.S., ORM-E NA 9189	0 0 1 1	T T	1 5 0 0	G	State / EPA
b.					State / EPA
c.					State / EPA
d.					State / EPA

J Additional Descriptions for Materials Listed Above: FUEL OIL AND WATER, GAS (TANK RINSATE)

K Handling Codes for Wastes Listed Above: 01

15 Special Handling Instructions and Additional Information

APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.

16 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Henry Silva | Signature: Henry Silva | Month 11 Day 01 Year 89

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: STEVE MESQUITE | Signature: Steve Mesquite | Month 11 Day 10 Year 89

18 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19 Discrepancy Indication Space

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name | Signature | Month Day Year

DHS 8022 A (1/88)
EPA 8700-22
(Rev. 3-88) Previous editions are obsolete

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

89495969

0345??01

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAC000204615030003
Manifest Document No.
Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
MOBIL OIL
3800 W. Alameda Avenue, Suite 2000
Burbank, California 91505-4331

JOB SITE: MOBIL #04-H6J
1024 Main Street
Pleasanton, CA

4. Generator's Phone (818) 953-2518

A. State Manifest Document Number: 89495961

B. State Generator's ID

5. Transporter 1 Company Name: H & H Ship Service Company
6. US EPA ID Number: CAD004771168

C. State Transporter's ID: 003745
D. Transporter's Phone: (415) 543-4835

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
H & H Ship Service Company
220 China Basin Street
San Francisco, CA 94107

10. US EPA ID Number: CAD004771168

G. State Facility's ID: CAD004771168
H. Facility's Phone: (415) 543-4835

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RESIDUE GASOLINE TANK (CALIFORNIA ONLY REGULATED WASTE)	001	TP	06000	P	State 512 / EPA/Other
b. RESIDUE GASOLINE TANK (CALIFORNIA ONLY REGULATED WASTE)	001	TP	04000	P	State 512 / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
PUMPED OUT 6,000 gallon tank and 4,000 gallon tank last containing gasoline. Tanks inerted with dry ice for transport.

K. Handling Codes for Wastes Listed Above
a. 01
b. 01
c.
d.

15. Special Handling Instructions and Additional Information
APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Tom Bal[illegible] | Signature: [signature] | Month Day Year: 1 0 1 7 8 9

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JOSE J. MORENO | Signature: [signature] | Month Day Year: 1 0 1 7 8 9

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Month Day Year

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

YELLOW: GENERATOR RETAINS

Type (Form code only for use in state that requires it)

Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: CIA|C|n|0|2|0|6|0|8|3 | Manifest Document No: 0|0|0|0|2

Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
MOBIL OIL
3800 W. Alameda Avenue, Suite 2000
Burbank, California 91505-4331

JOB SITE: MOBIL #040H6J
1024 Main Street
Pleasanton, CA

4. Generator's Phone ( )

A. State Manifest Document Number: 894958933

B. State Generator's ID

5. Transporter 1 Company Name: H & H Ship Service Company
6. US EPA ID Number: CIA|D|0|0|1|4|7|7|1|1|6|8
C. State Transporter's ID: 003747
D. Transporter's Phone: (415) 543-4835

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
H & H Ship Service Company
220 China Basin Street
San Francisco, CA 94107
10. US EPA ID Number: CIA|D|0|0|1|4|7|7|1|1|6|8
G. State Facility's ID: CIA|D|0|0|1|4|7|7|1|1|6|8
H. Facility's Phone: (415) 543-4835

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	Waste
a. RESIDUE GASOLINE TANK (CALIFORNIA ONLY REGULATED WASTE)	0|0|1	TIP	0|8|0|0|0	P	State 513 EPA/Other
b. RESIDUE GASOLINE TANK (CALIFORNIA ONLY REGULATED WASTE)	0|0|1	TIP	0|0|2|6|0	P	State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
PUMPED OUT 8,000 gallon tank and 260 gallon tank last containing gasoline and waste oil. Tanks inerted with dry ice for transport.

K. Handling Codes for Wastes Listed Above
a. 01
b. 01
c.
d.

15. Special Handling Instructions and Additional Information
APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Tom Bailey
Signature:
Month Day Year: 11 01 17 89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: EDWARD G. MILLARD
Signature: Edward G. Millard
Month Day Year: 11 01 17 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19

Printed/Typed Name:
Signature:
Month Day Year:

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700-22
(Rev. 9-88) Previous editions are obsolete

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAY

To: P.O. Box 400, Sacramento, CA 95812-0400

APPENDIX B

Laboratory Report and Chain of Custody Records For Initial Soil Sampling

OCT 2 3 1989

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	Concentration (mg/kg) Gasoline Range	Diesel Range
1	Tank #1, east 12'	ND<10	ND<10
2	Tank #1, west 12'	20	ND<10
3	Tank #2, east 12'	8100	30
4	Tank #2, west 12'	6000	40
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 = 2
MS/MSD Average Recovery = 113%: Duplicate RPD = 10

Edward R. Morales

Laboratory Manager

OUTSTANDING QUALITY AND SERVICE

MT# 80166

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

CHAIN of CUSTODY RECORD

PAGE 1 of 1

DATE: 10/18/89

RESULTS DUE BY: 10/

PROJECT NUMBER: 30-065

PROJECT NAME AND ADDRESS: MOBIL STATION 04-H6J

PROJECT MANAGER: C. D'ANDREA

SAMPLER'S SIGNATURE: Cheri D'Andrea

LABORATORY: Superior

REMARKS OR SPECIAL INSTRUCTIONS:

48 HR. T.A.T.

NOTE: PLEASE INDICATE VERBAL REQUESTS FOR ADDITIONAL ANALYSES IN THIS BOX.

SAMPLE NUMBER	SAMPLE DATE/TIME	LOCATION/ DESCRIPTION	SAMPLE MATERIAL	SAMPLE TYPE: GRAB	SAMPLE TYPE: COMP.	NUMBER OF CONTAINERS	SAMPLE PREP. 3510: SOLV. EXTR.	SAMPLE PREP. 3810: HEAD SPACE	SAMPLE PREP. 5030: PURGE & TRAP	SOIL ANALYSIS: TPH (high & low boiling)	WATER ANALYSIS: 418.1: TPHC (IR)	WATER ANALYSIS: 601: HALOCARBONS	WATER ANALYSIS: 602: BTXE	WATER ANALYSIS: DHS METHOD: TPHC (GC)	WATER ANALYSIS: 7421: TOTAL Pb
1	10/18/89	Tank #1, east, 12'	Soil							X					
2		Tank #1, west, 12'													
3		Tank #2, east, 12'													
4		Tank #2, west, 12'													
5		Tank #3, east, 12'													
6		Tank #3, west, 12'													
7		Tank #4, center, 8'													
8		composite (pile)			X										

TOTAL NO. OF CONTAINERS:

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	METHOD OF SHIPMENT:
Cheri D'Andrea	10/18/89 11:30		10/18 1pm	
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	SHIPPED BY:
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	COURIER:

SUPERIOR ANALYTICAL LABORATORY, INC.
1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

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	Concentration (mg/kg) Gasoline Range	Diesel Range
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2	Tank 2-west @19'	890	40
3	Tank 3-west @22'	2400	ND<50
4	Tank Fill Soil Pile	170	ND<10
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

Laboratory Manager

MT 80175

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

CHAIN of CUSTODY RECORD

PAGE 1 of 1

DATE: 10/23/89

RESULTS DUE BY:

PROJECT NUMBER: 30.065

PROJECT NAME AND ADDRESS: MOBIL STATION #04-HGJ
1024 MAIN ST. PLEASANTON

PROJECT MANAGER: C. D'ANDREA

SAMPLER'S SIGNATURE: Cherie D'Andrea

LABORATORY: SUPERIOR

REMARKS OR SPECIAL INSTRUCTIONS:
#. 5 DAY T.A.T.
*. 2 DAY T.A.T.

NOTE: PLEASE INDICATE VERBAL REQUESTS FOR ADDITIONAL ANALYSES IN THIS BOX.

SAMPLE NUMBER	SAMPLE DATE/TIME	LOCATION/ DESCRIPTION	SAMPLE MATERIAL	SAMPLE TYPE: GRAB	SAMPLE TYPE: COMP.	NUMBER OF CONTAINERS	SAMPLE PREP. 3510: SOLV. EXTR.	SAMPLE PREP. 3810: HEAD SPACE	SAMPLE PREP. 5030: PURGE & TRAP	SOIL ANALYSIS: TPH 8015 (HIGH/LOW)	SOIL ANALYSIS: HOLD	WATER ANALYSIS: 418.1: TPHC (IR)	WATER ANALYSIS: 601: HALOCARBONS	WATER ANALYSIS: 602: BTXE	WATER ANALYSIS: DHS METHOD: TPHC (GC)	WATER ANALYSIS: 7421: TOTAL Pb
1	10/20/89	Tank 2-east @ 16'	Soil *							X						
2		Tank 2-West @ 19'	*							X						
3		Tank 3-West @ 22'	*							X						
4		Tank Fill Soil Pile	#							X						
5		Tank & NATIVE 2:1 Pile	#							X						
6		Sidewall-north @ 7'									X					
7		Sidewall-West @ 11'									X					
8		Sidewall-south @ 7'									X					

TOTAL NO. OF CONTAINERS:

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	METHOD OF SHIPMENT:
Cherie D'Andrea	10/23/89 11:15			
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	SHIPPED BY:
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY: Dominic Rud	DATE/TIME:	COURIER:

APPENDIX C

Laboratory Report and Chain of Custody Records For Subsequent Soil Sampling

OCT 2 3 1989

SUPERIOR ANALYTICAL LABORATORY, INC.

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

C E R T I F I C A T E O F A N A L Y S I S

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	Concentration (mg/kg) Gasoline Range	Diesel Range
1	Tank #1, east 12'	ND<10	ND<10
2	Tank #1, west 12'	20	ND<10
3	Tank #2, east 12'	8100	30
4	Tank #2, west 12'	6000	40
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 = 2
MS/MSD Average Recovery = 113%: Duplicate RPD = 10

Edward R. Morales

Laboratory Manager

OUTSTANDING QUALITY AND SERVICE

MT# 80166

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

CHAIN of CUSTODY RECORD

PAGE 1 of 1

DATE: 10/18/89
RESULTS DUE BY: 10/

PROJECT NUMBER: 30-065
PROJECT NAME AND ADDRESS: MOBIL STATION 04-HGJ
PROJECT MANAGER: C.D'ANDREA
SAMPLER'S SIGNATURE: Cheri DAnd
LABORATORY: Superior

REMARKS OR SPECIAL INSTRUCTIONS:

48 HR. T.A.T.

NOTE: PLEASE INDICATE VERBAL REQUESTS FOR ADDITIONAL ANALYSES IN THIS BOX.

SAMPLE NUMBER	SAMPLE DATE/TIME	LOCATION/ DESCRIPTION	SAMPLE MATERIAL	SAMPLE TYPE: GRAB	SAMPLE TYPE: COMP.	NUMBER OF CONTAINERS	SAMPLE PREP. 3510: SOLV. EXTR.	SAMPLE PREP. 3810: HEAD SPACE	SAMPLE PREP. 5030: PURGE & TRAP	SOIL ANALYSIS: TPH (High & low boiling)	WATER ANALYSIS: 418.1: TPHC (IR)	WATER ANALYSIS: 601: HALOCARBONS	WATER ANALYSIS: 602: BTXE	WATER ANALYSIS: DHS METHOD: TPHC (GC)	WATER ANALYSIS: 7421: TOTAL Pb
1	10/18/89	Tank #1, east, 12'	Soil							X					
2		Tank #1, west, 12'													
3		Tank #2, east, 12'													
4		Tank #2, west, 12'													
5		Tank #3, east, 12'													
6		Tank #3, west, 12'													
7		Tank #4, center, 8'													
8	↓	Composite (pile)	↓		X					↓					

TOTAL NO. OF CONTAINERS:

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	METHOD OF SHIPMENT:
Cheri DAnd	10/18/89 11:30		10/18 1pm	
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	SHIPPED BY:
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	COURIER: