DAMES & MOORE A PROFESSIONAL LIMITED PARTNERSHIP

1320 EAST SHAW AVENUE, SUITE 110, FRESNO, CALIFORNIA 93710 (209) 222-7892 FAX (209) 222-1937

December 3, 1990

Thrifty Oil Company 10000 Lakewood Boulevard Downey, CA 90240

Attention: Peter D'Amico

LETTER REPORT Quarterly Groundwater Monitoring Thrifty Oil Co. #054 2504 Castro Valley Boulevard Castro Valley, California

Dear Mr. D'Amico:

At the request of Thrifty Oil Company, Dames & Moore is presenting this letter report summarizing the methods and results of the groundwater monitoring we performed at the subject site. The site is located at the northeast corner of Castro Valley Boulevard and Stanton Avenue as shown on the Vicinity Map, Plate 1. The approximate configuration of nine groundwater monitoring wells and of selected site structures is depicted on the Site Map, Plate 2.

According to information supplied by Thrifty Oil Company, petroleum hydrocarbons were detected in water samples collected from the nine monitoring wells (RE-1 through RE-7, PW-1, and PW-2) before our involvement at this site. We have not been provided with information on well construction and soil stratigraphy.

A geologist from Dames & Moore visited the site on October 29 and October 30, 1990, to collect groundwater samples from the nine monitoring wells for laboratory

21161-002-044

### THRIFTY OIL CO.

September 7, 1990

Mr. Scott Seery Alameda County Health Care Services 80 Swan Way, Rm. 200 Oakland, CA 94621

RE <u>Thrifty Oil Co. Station #054</u> 2504 Castro Valley Blvd. Castro Valley, California

Dear Mr. Seery,

Regarding your letter of August 9, 1990, we have contracted with Remediation Services Int'l. (RSI) to install groundwater recovery pumps at the subject station. We anticipate that groundwater extraction will begin on or before October 9, 1990 as requested. Prior to the installation of recovery pumps, RSI will redevelop all existing wells in order to insure that all wells are free of silt and sand debris that may prove detrimental to pump operation.

In addition, RSI will be performing the off-site investigation which includes the permitting and installation of wells on public property. As you know, RSI has submitted permit applications to the local and state regulatory agencies that are involved in this site. At this time, RSI is following up the permit status and will take an active role in securing these permits in a timely manner.

We will keep you informed of the status of groundwater extraction start-up and permit procurement as information becomes available. If you have any questions, please contact me or Mr. Karl Kerner at (213) 932-9876.

Very truly yours,

Peter D'Amico

Manager

Environmental Affairs

PD/KK

cc: Mr. Lester Feldman, RWQCB-San Francisco Bay Region



analysis. Our methods for field work are described in the attached "Field Procedures". Depths to groundwater were measured and water from each well was analyzed subjectively. A gasoline product sheen was observed on water collected from wells RE-3 and RE-4. The results of the subjective analyses and the depths to groundwater are summarized in Table I.

TABLE I

Depths to groundwater and Subjective Analyses
(Depths in feet below well head)

Thrifty Oil Co. #054 Castro Valley, California

Well No.	<u>Date</u>	Depth to Groundwater	Floating Product
RE-1	10/29/90	5.95	none
RE-2	10/29/90	5.34	none
RE-3	10/29/90	7.84	sheen
RE-4	10/29/90	7.04	s <b>heen</b>
RE-5	10/29/90	5.86	none
RE-6	10/29/90	6.68	none
RE-7	10/29/90	8.21	none
PW-1	10/29/90	6.17	none
PW-2	10/29/90	6.95	none

Water purged from the wells was stored temporarily on-site in properly labeled 55-gallon, 17-H steel drums approved for that use by the Department of Transportation. Disposal of the water and drums are the responsibility of Thrifty Oil Company.

The groundwater samples were submitted to BC Laboratories Inc. in Bakersfield, California. Samples were analyzed for total petroleum hydrocarbons as referenced to gasoline (TPH) and for benzene, toluene, ethylbenzene, and total xylene isomers

(BTEX). Copies of the laboratory analysis reports and the chain of custody record are attached. The results are summarized in Table II.

Summary of Laboratory Analyses of Groundwater Samples
(Results reported in parts per billion)

Thrifty Oil Co. #054 Castro Valley, California

					Ethyl-	Total
<u>Well No.</u>	<u>Date</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	<u>benzene</u>	<u>Xylenes</u>
RE-1	10/30/90	72000	7700	5300	1800	<b>#80</b> 0
RE-2	10/30/90	.440	2.8	0.91	13	3.14
RE-3	10/30/90	13,000	860	660	220	2210
RE-4	10/30/90	87.000	7200	10000	1600	12900
RE-5	10/30/90	3400	910	48	87	249
RE-6	10/30/90	3400	1000	28	N/D	N/D
RE-7	10/30/90	31000	14000	N/D	N/D	N/D
PW-1	10/29/90	35000	240	<b>9</b> 70	240	2580*
PW-2	10/29/90	48000	310	2100	500	

### Legend:

N/D - Not detected

TPH - Total Petroleum Hydrocarbons as referenced to gasoline

Petroleum hydrocarbons were detected in each of the samples as indicated in Table II. Concentrations of TPH across the site were interpreted to construct the TPH Isocontour Map included as Plate 3 at the end of the text.

The groundwater gradient across the site on October 29, 1990 has been evaluated based upon the data obtained from our field measurements, and well head survey data provided to Dames & Moore by Thrifty Oil Company. These elevations were compared with

depth to water measurements to calculate the elevations of the groundwater surface.

This data is summarized in Table III.

TABLE III

Summary of Groundwater Elevations (Elevations in feet above mean sea level)

Thrifty Oil Co. #054 Castro Valley, California

Well <u>No.</u>	<u>Date</u>	Well Head Elevation	Depth to Groundwater	Groundwater Elevation
RE-1	10/29/90	167.08	5.95	161.13
RE-2	10/29/90	167.21	5.34	161.87
RE-3	10/29/90	167.47	7.84	159.63
RE-4	10/29/90	167.00	7.04	159.96
RE-5	10/29/90	167.13	5.86	161.27
RE-6	10/29/90	166.75	6.68	160.07
RE-7	10/29/90	166.10	8.21	157.89
PW-1	10/29/90	166.58	6.17	160.41
PW-2	10/29/90		6.95	159.33

The groundwater elevations were used to interpret the Potentiometric Surface Map, Plate 4. The groundwater gradient varies across the site and shows a general direction of flow towards the east. The average groundwater gradient was calculated to be approximately 0.03 ft/ft.

We will continue to monitor groundwater at the site on a quarterly basis and we will measure depths to groundwater on a monthly basis. Our next quarterly sampling event is tentatively scheduled for the week of January 7, 1991.

We recommend that you forward a copy of this report to Mr. Scott O. Seary,
Alameda County Department of Environmental Health, Hazardous Materials Program,
80 Swan Way, Room 200, Oakland, California, 94621.

Please do not hesitate to call if you have any questions regarding this project or if we may be of further service. The following are attached and complete this report.

Plate 1 Vicinity Map

Plate 2 Site Map

Plate 3 TPH Isocontour Map

Plate 4 Potentiometric Surface Map

Field Procedures

Laboratory Analysis Results with Chain of Custody Record

Respectfully submitted, DAMES & MOORE

Marc H. Selover, Staff Geologist

Jeffrey S. Palmer, REA

Senior Environmental Scientist

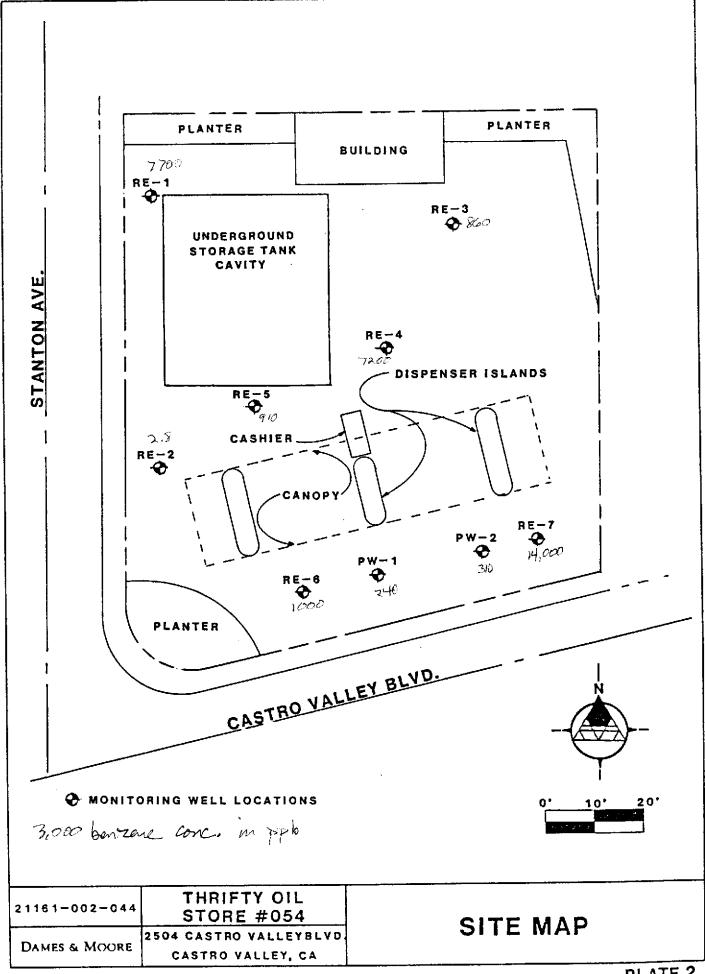
Michael R. Erwin, RCE

Senior Engineer

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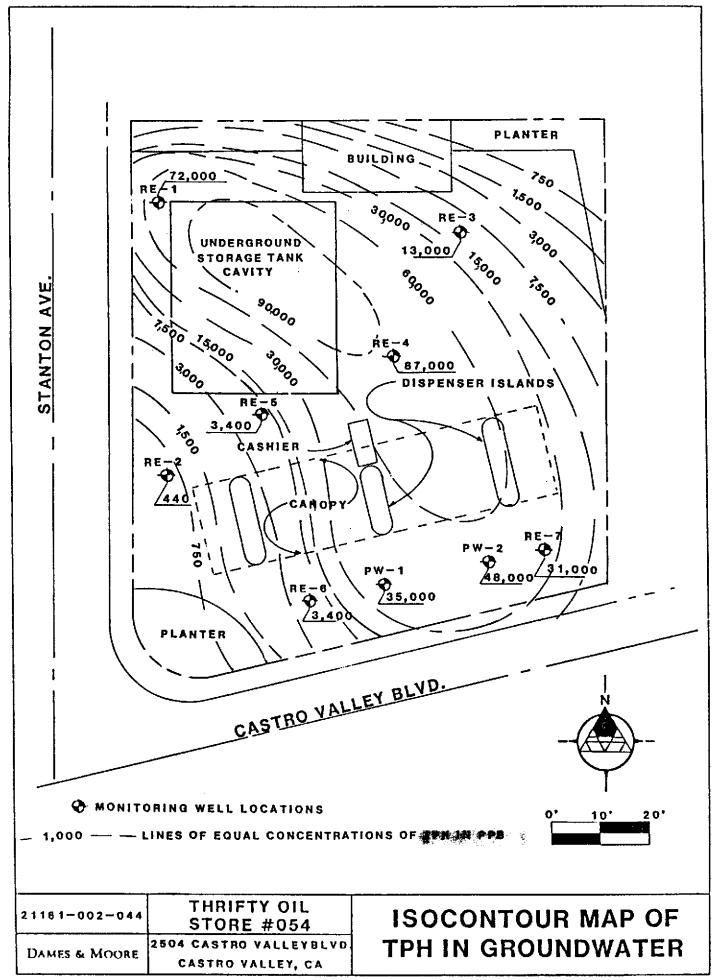
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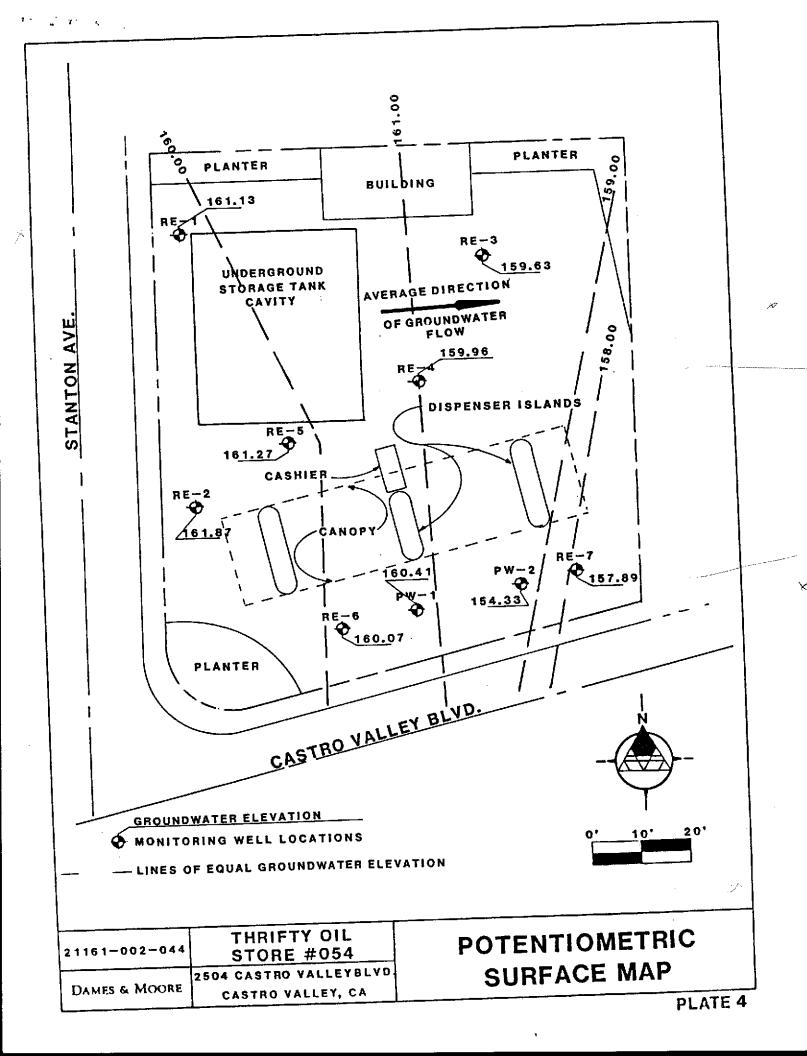




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PLATE 2





### FIELD PROCEDURES

## Measurement of the Depth to Groundwater in Monitoring Wells

The depth of the groundwater surface in a monitoring well was measured from the top of the well head to the nearest 0.01 foot with a Solinst water-level indicator.

Subjective Analysis of Monitoring Wells

· F Care 1

Groundwater samples are collected for subjective analysis from the air-fluid interface in a monitoring well by lowering approximately half the length of a clean bailer through the interface. The bailer is retrieved and the water sample is visually examined for floating product, sheen, and other subjective evidence of hydrocarbon contamination.

## Purging and Sampling of Monitoring Wells

Before sample collection, a minimum of 3 casing volumes of ground water is purged from each monitoring well using a bailer. The volume should be sufficient to produce stable temperature, pH, and conductivity measurements on field instruments. After the well is allowed to recover to near static levels, a groundwater sample is collected by lowering a clean bailer past the air-water interface. The bailer is retrieved and the sample is slowly transferred to laboratory-cleaned, 40-milliliter glass vials. The vials are filled so as to prevent headspace. Labels which show the site identification number, the date and time of sample collection, and the sample identification number are affixed to the vials. The samples are promptly stored in an ice chest with ice. The field geologist initiates a Chain of Custody Record listing each sample number, the site identification number, and the date sampled. This record will accompany the samples to the analytical laboratory.

## ABORATORIE

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918

Purgeable Aromatics (WATER)

Dames and Moore

1320 E. Shaw, #110 Fresno, CA 93710

Attention:

Jeff Palmer

Lab No.:

9512-4

Sample Desc:

Job #21161-002-044, Thrifty Oil, Sample #RE1

10-30-90 @ 2:50pm

Date Sample

Date Sample

Received @ Lab: 31-Oct-90

Date Analysis

Completed: 05-Nov-90

Date of

Report:

09-Nov-90

Collected: 30-0ct-90

Constituent	Reporting Units	Analysis Results	Minimum Reporting Level
Benzene Toluene Ethyl Benzene p-Xylene m-Xylene o-Xylene	ug/L ug/L ug/L ug/L ug/L ug/L	7,700 5,300 1,800 2,100 4,300 2,500	200 200 200 200 200 200
Total Petroleum Hydrocarbons (Gasoline)	ug/L	72,000	20,000

TEST METHOD: TPH by Modified EPA 8015.

Individual constituents by EPA method 5030/8020.

As Received Basis

Comments:

California D.O.H.S. Cert. #1186

By J. J. Eglins

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# LABORATORIE

J. J. EGLIN, REG. CHEM. ENGR.

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918

Purgeable Aromatics (WATER)

Dames and Moore 1320 E. Shaw, #110

Fresno, CA 93710

Jeff Palmer Attention:

Lab No.:

9512-5

Sample Desc:

Job #21161-002-044, Thrifty Oil, Sample #RE2

10-30-90 @ 1:10pm

Date Sample Collected:

30-Oct-90

Date Sample Received @ Lab:

31-Oct-90

Date Analysis

Completed: 05-Nov-90

Date of

Report:

09-Nov-90

Constituent	Reporting Units	Analysis Results	Minimum Reporting Level
Benzene Toluene Ethyl Benzene p-Xylene m-Xylene o-Xylene	ug/L ug/L ug/L ug/L ug/L ug/L	2.8 0.91 13 1.2 0.99 0.95	0.5 0.5 0.5 0.5 0.5
Total Petroleum Hydrocarbons (Gasoline)	ug/L	440	50

TEST METHOD: TPH by Modified EPA 8015.

Individual constituents by EPA method 5030/8020.

As Received Basis

Comments:

California D.O.H.S. Cert. #1186

By J. J. Eglins

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918

Purgeable Aromatics (WATER)

Dames and Moore

1320 E. Shaw, #110 Fresno, CA 93710

Attention:

Jeff Palmer

Lab No.:

9512-6

Sample Desc:

Job #21161-002-044, Thrifty Oil, Sample #RE3

10-30-90 @ 3:20pm

Date Sample

Date Sample

Received @ Lab: 31-0ct-90

Date Analysis

Completed: 05-Nov-90

Date of

Report:

09-Nov-90

Collected: 30-Oct-90

Minimum Reporting Analysis Reporting Level Results Units Constituent 20 860 ug/L Benzene 20 660 ug/L Toluene 20 220 uq/L Ethyl Benzene 20 550 ug/L p-Xylene 20 930 ug/L m-Xylene 20 730 ug/L o-Xylene Total Petroleum 2,000 13,000 Hydrocarbons ug/L (Gasoline)

TEST METHOD: TPH by Modified EPA 8015.

Individual constituents by EPA method 5030/8020.

As Received Basis

Comments:

California D.O.H.S. Cert. #1186

By J. J. Eglin

## DAMES & MOORE!

1320 E. Shaw Ave., Suite 110 : Fresno, CA 93710 (209) 222-7892

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Due 3-25-91

by noon

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DAM Mike Radgett

PHONE:

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CHAIN OF CUSTODY RECORD

Dames & Moore



# LABORATORIES, INC.

J. J. EGLIN, REG. CHEM, ENGR

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918

Purgeable Aromatics (WATER)

Dames and Moore

1320 E. Shaw, #110

Fresno, CA 93710 Attention: Je

Jeff Palmer

Lab No.:

9512-7

Sample Desc:

Job #21161-002-044, Thrifty Oil, Sample #RE4

10-30-90 @ 1:00pm

Date Sample

Collected: 30-Oct-90

Date Sample

Received @ Lab: 31-Oct-90

Date Analysis

Completed: 05-Nov-90

Date of

Report:

09-Nov-90

Constituent	Reporting Units	Analysis Results	Minimum Reporting Level
Benzene Toluene Ethyl Benzene p-Xylene m-Xylene o-Xylene	ug/L ug/L ug/L ug/L ug/L ug/L	7,200 10,000 1,600 2,600 6,200 4,100	200 200 200 200 200 200
Total Petroleum Hydrocarbons (Gasoline)	ug/L	87,000	20,000

TEST METHOD: TPH by Modified EPA 8015.

Individual constituents by EPA method 5030/8020.

As Received Basis

Comments:

California D.O.H.S. Cert. #1186

Freyth Dallon Analyst

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918 Purgeable Aromatics

(WATER)

Dames and Moore 1320 E. Shaw, #110 Fresno, CA 93710

Date of

Report: 09-Nov-90

Attention:

Jeff Palmer

Lab No.:

9512 - 3

Sample Desc:

Job #21161-002-044, Thrifty Oil, Sample #W-RE5

10-29-90 @ 5:20pm

Date Sample Collected:

Date Sample Received @ Lab: Date Analysis Completed:

29-Oct-90

31-Oct-90

05-Nov-90

Constituent	Reporting Units	Analysis Results	Minimum Reporting Level
Benzene Toluene Ethyl Benzene p-Xylene m-Xylene o-Xylene	ug/L ug/L ug/L ug/L ug/L ug/L	910 48 87 140 95 14	10 10 10 10 10
Total Petroleum Hydrocarbons (Gasoline)	ug/L	3,400	1,000

TEST METHOD: TPH by Modified EPA 8015.

Individual constituents by EPA method 5030/8020.

As Received Basis

Comments:

California D.O.H.S. Cert. #1186

By J. J. Eglin

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er carried to a

# LABORATORIES, INC.

J. J. EGLIN, REG. CHEM. ENGR.

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918

Purgeable Aromatics (WATER)

Dames and Moore

1320 E. Shaw, #110 Fresno, CA 93710

Attention:

Jeff Palmer

Lab No.:

9512-8

Sample Desc:

Job #21161-002-044, Thrifty Oil, Sample #RE6

10-30-90 @ 2:00pm

Date Sample Collected:

lected: 30-Oct-90 Date Sample

Received @ Lab: 31-Oct-90

Date Analysis

Completed: 05-Nov-90

Date of

Report: 09-Nov-90

Constituent	Reporting Units	Analysis Results	Minimum Reporting Level
Benzene Toluene Ethyl Benzene p-Xylene m-Xylene o-Xylene	ug/L ug/L ug/L ug/L ug/L	1,000 28 none detected none detected none detected none detected	10 10 10 10 10
Total Petroleum Hydrocarbons (Gasoline)	ug/L	3,400	1,000

TEST METHOD: TPH by Modified EPA 8015.

Individual constituents by EPA method 5030/8020.

As Received Basis

Comments:

California D.O.H.S. Cert. #1186

By J. J. Eglin

Analyst

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918 Purgeable Aromatics

(WATER)

Dames and Moore 1320 E. Shaw, #110 Fresno, CA 93710

Date of

Report: 09-Nov-90

Attention:

Jeff Palmer

Lab No.:

9512-9

Sample Desc:

Job #21161-002-044, Thrifty Oil, Sample #RE7

10-30-90 @ 2:05pm

Date Sample Collected: 30-Oct-90 Date Sample

Date Analysis

Received @ Lab: 31-Oct-90

Completed: 05-Nov-90

Constituent	Reporting Units	Analysis Results	Minimum Reporting Level
Benzene Toluene Ethyl Benzene p-Xylene m-Xylene o-Xylene	ug/L ug/L ug/L ug/L ug/L ug/L	14,000 none detected none detected none detected none detected none detected	200 200 200 200 200 200
Total Petroleum Hydrocarbons (Gasoline)	ug/L	31,000	20,000

TEST METHOD: TPH by Modified EPA 8015.

Individual constituents by EPA method 5030/8020.

As Received Basis

Comments:

California D.O.H.S. Cert. #1186

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# LABORATORIES, INC.

J. J. EGLIN, REG. CHEM. ENGR.

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918

Purgeable Aromatics (WATER)

Dames and Moore

1320 E. Shaw, #110 Fresno, CA 93710

Attention:

Jeff Palmer

Lab No.:

9512-1

Sample Desc:

Job #21161-002-044, Thrifty Oil, Sample #W-PW1

10-29-90 @ 4:20pm

Date Sample Collected:

lected: 29-0ct-90 Date Sample

Received @ Lab:

31-0ct-90

Date Analysis

09-Nov-90

Completed: 05-Nov-90

Date of

Report:

Constituent	Reporting Units	Analysis Results	Minimum Reporting Level
Benzene Toluene Ethyl Benzene p-Xylene m-Xylene o-Xylene	ug/L ug/L ug/L ug/L ug/L ug/L	240 970 240 680 1,500 1,400	200 200 200 200 200 200
Total Petroleum Hydrocarbons (Gasoline)	ug/L	35,000	20,000

TEST METHOD: TPH by Modified EPA 8015.

Individual constituents by EPA method 5030/8020.

As Received Basis

Comments:

California D.O.H.S. Cert. #1186

By J. Edin

January Ballo Analyst

ENVIRONMENTAL CHEMICAL ANALYSIS PETROLEUM

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918

Purgeable Aromatics (WATER)

Dames and Moore 1320 E. Shaw, #110 Date of

Report: 09-Nov-90

Fresno, CA 93710

Attention:

Jeff Palmer

Lab No.:

9512-2

Sample Desc:

Job #21161-002-044, Thrifty Oil, Sample #W-PW2

10-29-90 @ 3:40pm

Date Sample Collected:

Date Sample

Date Analysis

29-Oct-90

Received @ Lab: 31-Oct-90

Completed: 05-Nov-90

Constituent	Reporting Units	Analysis Results	Minimum Reporting Level
Benzene Toluene Ethyl Benzene p-Xylene m-Xylene o-Xylene	ug/L ug/L ug/L ug/L ug/L ug/L	310 2,100 500 1,500 3,700 3,000	200 200 200 200 200 200
Total Petroleum Hydrocarbons (Gasoline)	ug/L	48,000	20,000

TEST METHOD: TPH by Modified EPA 8015.

Individual constituents by EPA method 5030/8020.

As Received Basis

Comments:

California D.O.H.S. Cert. #1186

By J. J. Egin

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J. J. EGLIN, REG. CHEM. ENGR.

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918

Purgeable Aromatics (WATER)

Dames and Moore 1320 E. Shaw, #110 Date of

09-Nov-90 Report:

Fresno, CA 93710 Attention:

Jeff Palmer

Lab No.:

9512-TB

Sample Desc:

Job #21161-002-044, Thrifty Oil, Travel Blank

Date Sample Collected: 30-Oct-90 Date Sample Received @ Lab: Date Analysis Completed:

31-Oct-90

05-Nov-90

Constituent	Reporting Units	Analysis Results	Minimum Reporting Level
Benzene Toluene Ethyl Benzene p-Xylene m-Xylene o-Xylene	ug/L ug/L ug/L ug/L ug/L ug/L	none detected none detected none detected none detected none detected none detected	0.5 0.5 0.5 0.5 0.5
Total Petroleum Hydrocarbons (Gasoline)	ug/L	none detected	50

TEST METHOD: TPH by Modified EPA 8015.

Individual constituents by EPA method 5030/8020.

As Received Basis

Comments:

California D.O.H.S. Cert. #1186

By J. J. Eglin

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J. J. EGLIN, REG. CHEM. ENGR.

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918

BTXE/TPH GASOLINE Quality Control Data

Dames and Moore 1320 E. Shaw, #110 Fresno, CA 93710

Attention: Jeff Palmer

Spike ID: 9524-1

Analysis Date: 05-Nov-90

Sample Matrix: Water

Quality Control

for Lab Nos: 9512-1, 9512-2, 9512-4, 9512-7, 9512-9

9512-TB

Constituent	Spike % Rec	Dup Spike % Rec	Spike RPD
Benzene	80.99	83.02	2.48
Toluene	85.82	86.75	1.08
Ethyl Benzene	78.13	78.95	1.04

QC Comments:

41 4 5 Br.

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918

BTXE/TPH GASOLINE Quality Control Data

Dames and Moore 1320 E. Shaw, #110 Fresno, CA 93710

Spike ID: 9524-2 Analysis Date: 05-Nov-90

Attention: Jeff Palmer

Sample Matrix: Water

Quality Control

for Lab Nos: 9512-3, 9512-5, 9512-6, 9512-8

Constituent	Spike % Rec	Dup Spike % Rec	Spike RPD
Benzene	111.25	111.11	0.13
Toluene	110.24	108.22	1.85
Ethyl Benzene	99.19	101.65	2.45

QC Comments:

### CHAIN OF CU 'ODY RECORD

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Dames - Moore 221 Main Street, Suite 600 San Francisco, CA 94105

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	PHONE MAIS BOS ED	1)202-7802

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2.	Relinquished by: (Si	gnature)	Company:	Date / Ter	×		(Signature	)	Сотралу:	Date / Time
з.	Relinquished by: (5)	grature)	Company:	, Date/Tim	•	Recieved by:	(Signature	)	Сотрепу:	Date / Time

Source C	COORS:
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Well ..(W) Outfall ......(O) Bottom Sediment ....(B) Surface Impoundment ....(I) Leachate Collection Sys....(C) Other ..............(X)
Soil ...(S) River/Stream ..(R) Generation Point ....(G) Treatment ity .....(T) Lake/Ocean ...........(L) Specify \_\_\_\_\_\_