

STIP 1252
SDS

THRIFTY OIL CO.

ENVIRONMENTAL
PROTECTION

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November 5, 1998

Mr. Brian P. Oliva, REHS, REA
Hazardous Material Specialist
1131 Harbor Bay Parkway, Suite 250
Alameda, Ca 94502

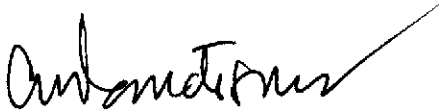
RE: **Thrifty Oil Co. #054**
2504 Castro Valley Boulevard
Castro Valley, Ca
Status Report

Dear Mr. Oliva:

Presented herewith is the Status Report for Thrifty Oil Co. Station #054 located at 2504 Castro Valley Boulevard, Castro Valley, Ca.

If you have any questions or comments please contract the undersign in this report at (562) 921-3581.

Sincerely,



Chris Panaitescu
General Manager
Environmental Affairs

c: File



THRIFTY OIL CO.

November 5, 1998

Mr. Brian P. Oliva, REHS, REA
Hazardous Material Specialist
1131 Harbor Bay Parkway, Suite 250
Alameda, Ca 94502

RE: **Thrifty Oil Co. Station #054**
2504 Castro Valley Boulevard
Castro Valley, California
Status Report

Dear Mr. Oliva:

This letter report presents the results of soil and groundwater remedial activities, and site monitoring and sample collection conducted this reporting period (April thru September 98). All monitoring is conducted by Earth Management Co. (EMC) of Santa Fe Springs, California.

Site Monitoring

The site was visited on July 8 and September 10, 1998 by an EMC technician to gauge the wells and collect groundwater samples. Water levels were measured in each well from the top of well casing using a Marine Moisture interface gauging probe. Depth to groundwater in the last sampling event ranged from 2.72 to 12.95 feet below the top of well casings. **None of the wells exhibited free product.** The interpretation of groundwater flow across the site is depicted on **Figure 1**. In general, the groundwater flow is to the east at a gradient of approximately 0.03 feet per foot. Historical groundwater data is included in **Table 1**.

Sample Collection

Prior to collecting groundwater samples from the wells, approximately 4 well volumes of groundwater was removed using a PVC bailer. During the purging process, the pH, conductivity and temperature were measured and recorded to insure formation water was entering the well to be sampled. Approximately 10 to 30 gallons of water was removed from each well and stored in 55 gallon D.O.T. approved drums pending disposal or discharge through the treatment unit. Groundwater samples were collected with a disposable bailer. Samples were maintained and transported in 40 milliliter vials placed on ice pending delivery to American Analytics, a state certified analytical laboratory located in Chatsworth, California.



Analytical Results

Groundwater samples were analyzed for volatile organic hydrocarbons and MTBE by EPA method 8020, and total petroleum hydrocarbons (TPH) by EPA method 8015 modified. Copies of the laboratory analysis reports are attached in **Appendix A**. A summary of the results are presented in **Table 1**. TPHg, benzene, and MTBE isoconcentration maps generated from September 10, 1998 sampling event data are presented as **Figures 2, 3 and 4**, respectively.

Remediation System Operation Status

The soil and groundwater remediation system was designed and installed by Remediation Services Int'l (RSI) and has been in operation at the site since November 1989. The treatment compound consists of a Ford internal combustion engine, spray aeration tower (which at this time has been substituted for carbon canisters), and gauging instruments. The hydrocarbon laden vapors from the extraction wells are burned as fuel by the engine, and extracted water is being treated by carbon. The engine is equipped with a catalytic converter for exhaust emission reduction.

Water

As of September 1998, a total of about 27,922 gallons of water (current meter reading 11,832) had been processed by the unit and discharged to the local sanitary sewer. ~~During this status reporting period, 3,512 gallons of water had been processed by the treatment unit and was discharged to the sanitary sewer.~~ Effluent samples of the groundwater portion of the treatment unit were collected monthly, and the results are located in **Table 2**. Laboratory analysis of effluent water samples collected indicated the absence of TPH and BTEX at concentrations exceeding laboratory detection limits, except for TPH during the following dates, June 6 (500 ug/L), July 7 (610 ug/L), and September 28, 1998 (670 ug/L). Benzene was only detected during June 11, 1998 (0.65 ug/L). The system was shut down for carbon replacement from July 29 through September 14, 1998. Copies of analytical reports are located in **Appendix B**.

Vapor

The system was down from March 19, 1998 thru April 23, 1998 due to lack of auxiliary fuel. The system was restarted April 23, 1998. Based on the data obtained by EMC, the RSI-SAVE unit operated 1,601 hours from April thru September, 1998, and 19,909 hours total (current meter reading 14,612). Treatment unit effluent vapor samples were collected quarterly. Copies of laboratory analytical reports are located in **Appendix C**. Fields status reports for the vapor monitoring system are located in **Appendix D**.

Closing

All interpretations expressed in this report are based upon the review of data collected by Earth Management Co. If you have any questions please contact the undersigned at (562) 921-3581.

Respectfully,

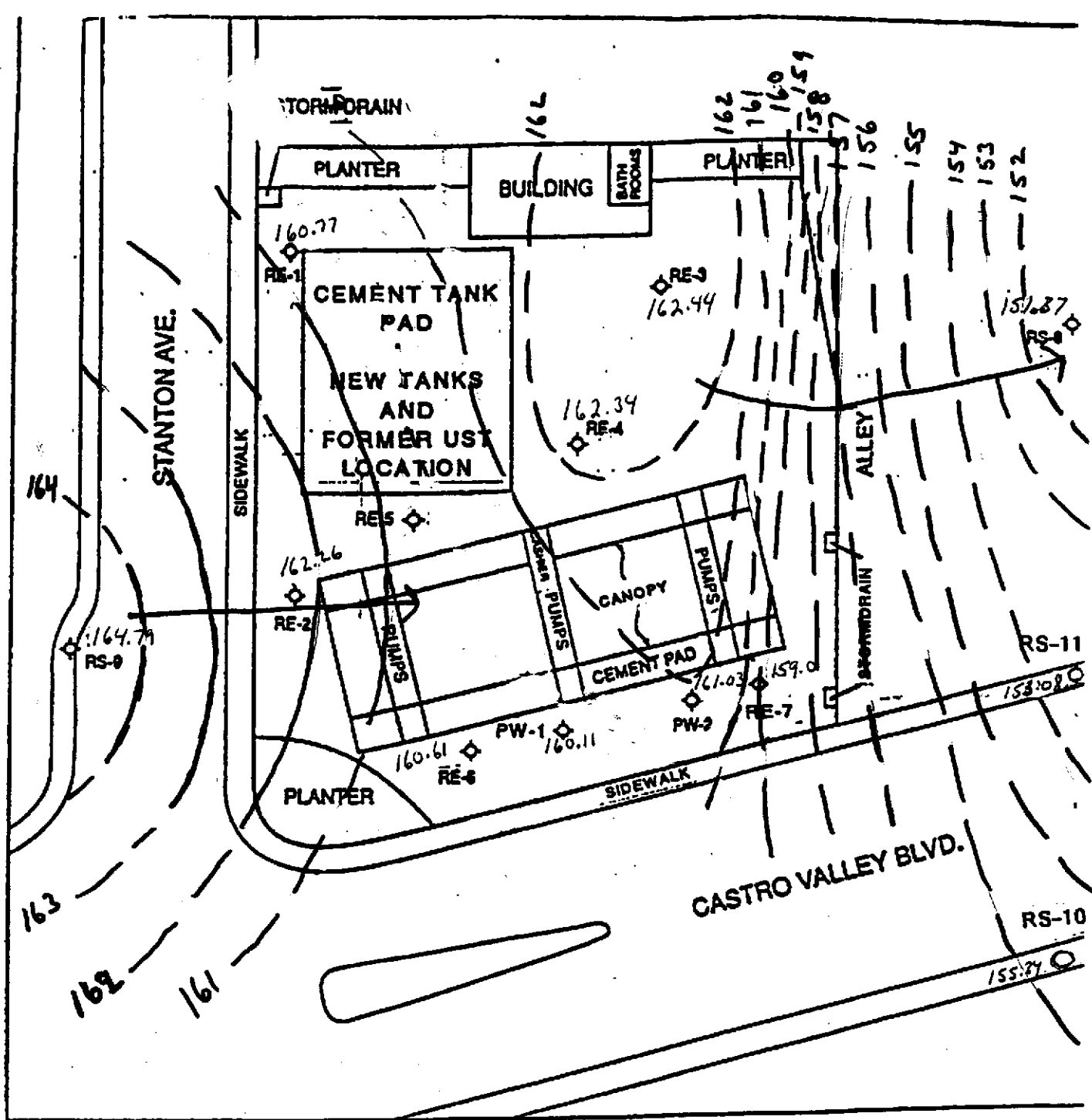
A handwritten signature in black ink, appearing to read "Raymond C. Friedrichsen". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Raymond C. Friedrichsen
Project Manager
Environmental Geologist

A handwritten signature in black ink, appearing to read "Bryan Van Wagner". The signature is cursive and stylized, with a prominent initial "B" and "V".

Bryan Van Wagner, RG, CHG
Hydrogeologist

FIGURES



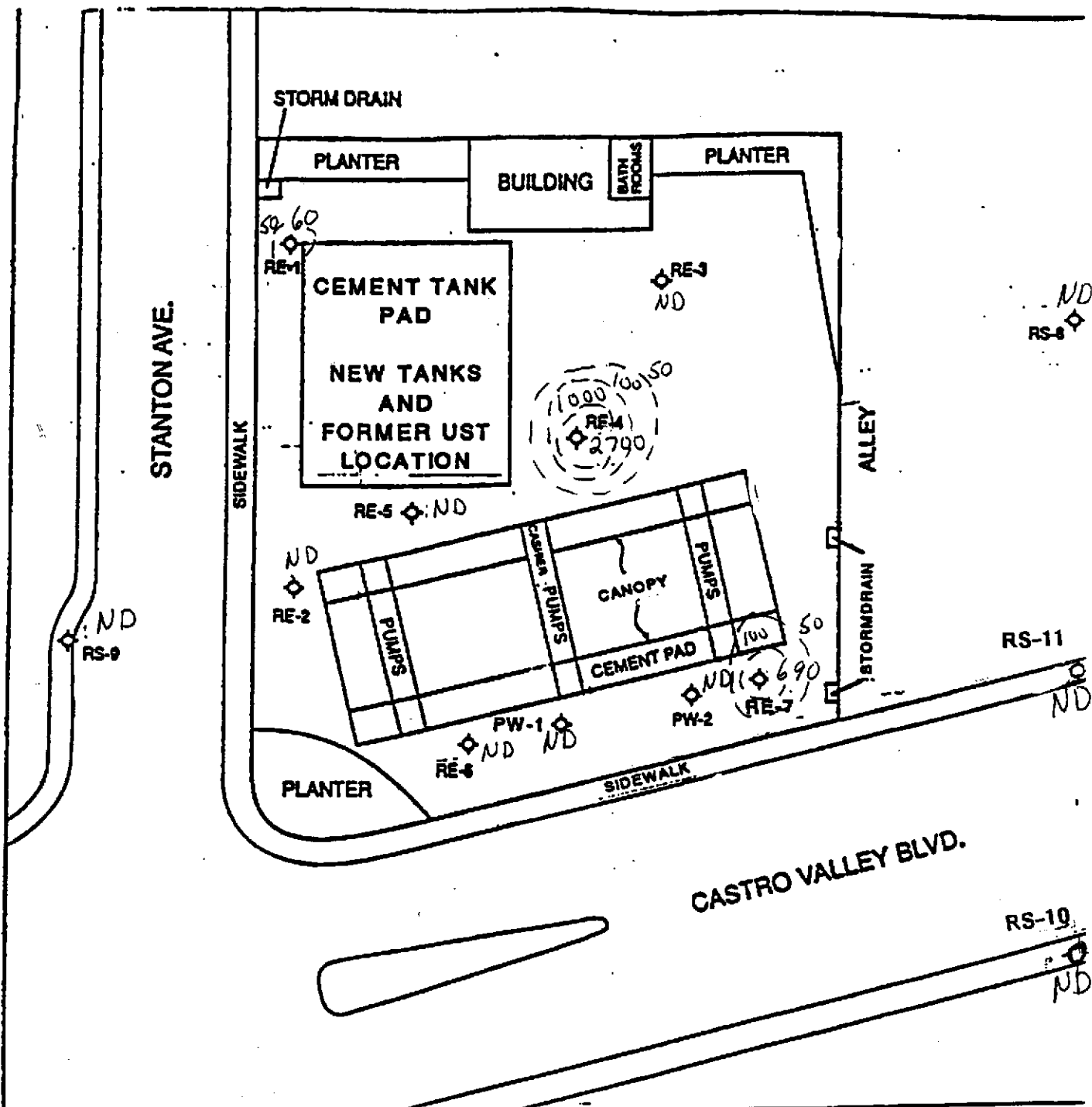
GROUNDWATER CONTOUR MAP
 THRIFTY OIL CO. #054
 CASTRO VALLEY, CALIFORNIA
 Prepared for
 THRIFTY OIL CO.
 SANTA FE, SPRINGS
 CALIFORNIA

0 25 50
 SCALE IN FEET

◊ EXISTING MONITORING WELL

Data collected 9/10/98

FIGURE 1



TPH ISOCONCENTRATION MAP PPB

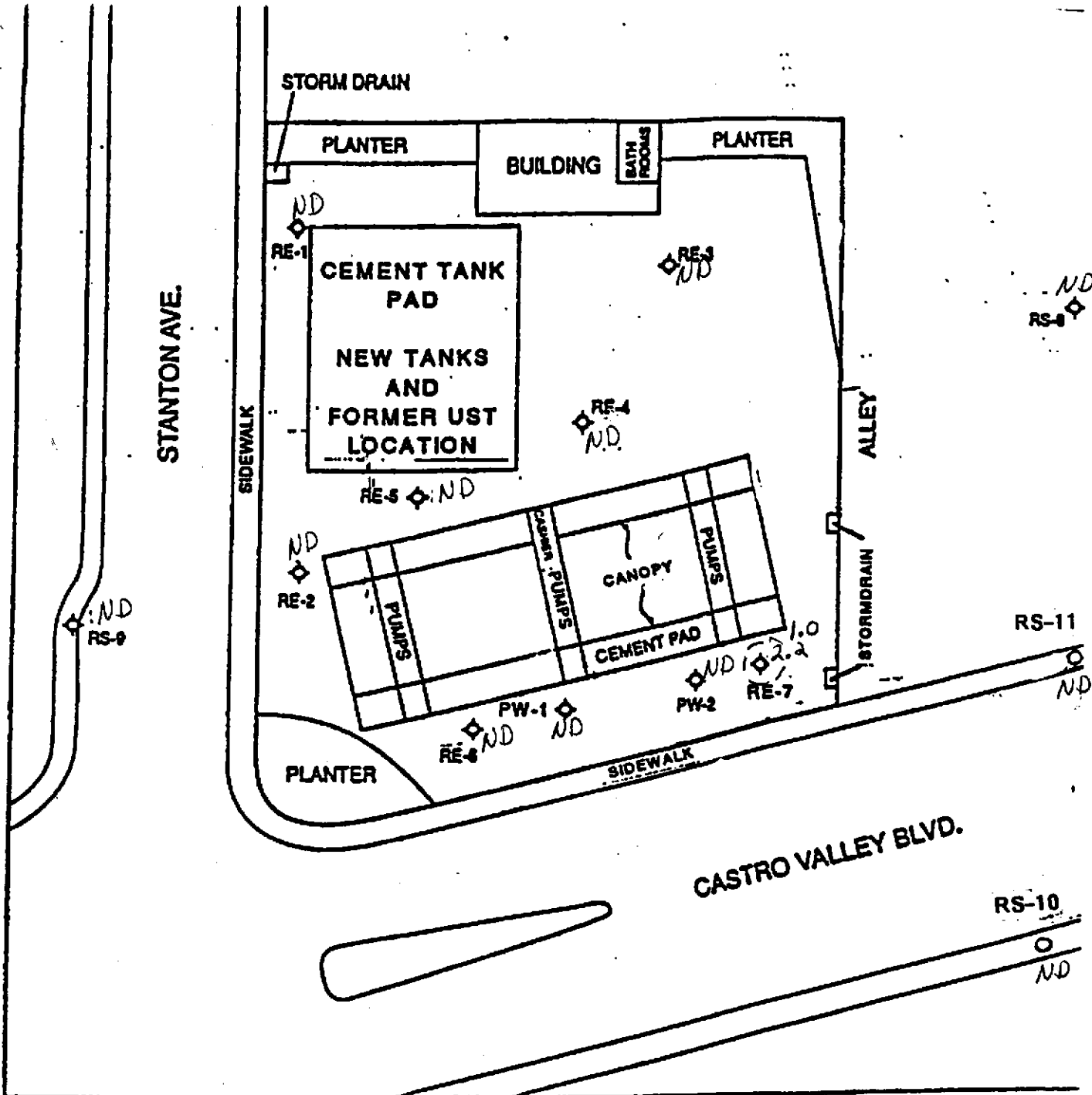
THRIFTY OIL CO. #054
 CASTRO VALLEY, CALIFORNIA
 Prepared for
 THRIFTY OIL CO.
 SANTA FE, SPRINGS
 CALIFORNIA



EXISTING MONITORING WELL

Samples collected 9/10/98

FIGURE 2



BENZENE GROUNDWATER ISOCONCENTRATION MAP PPB

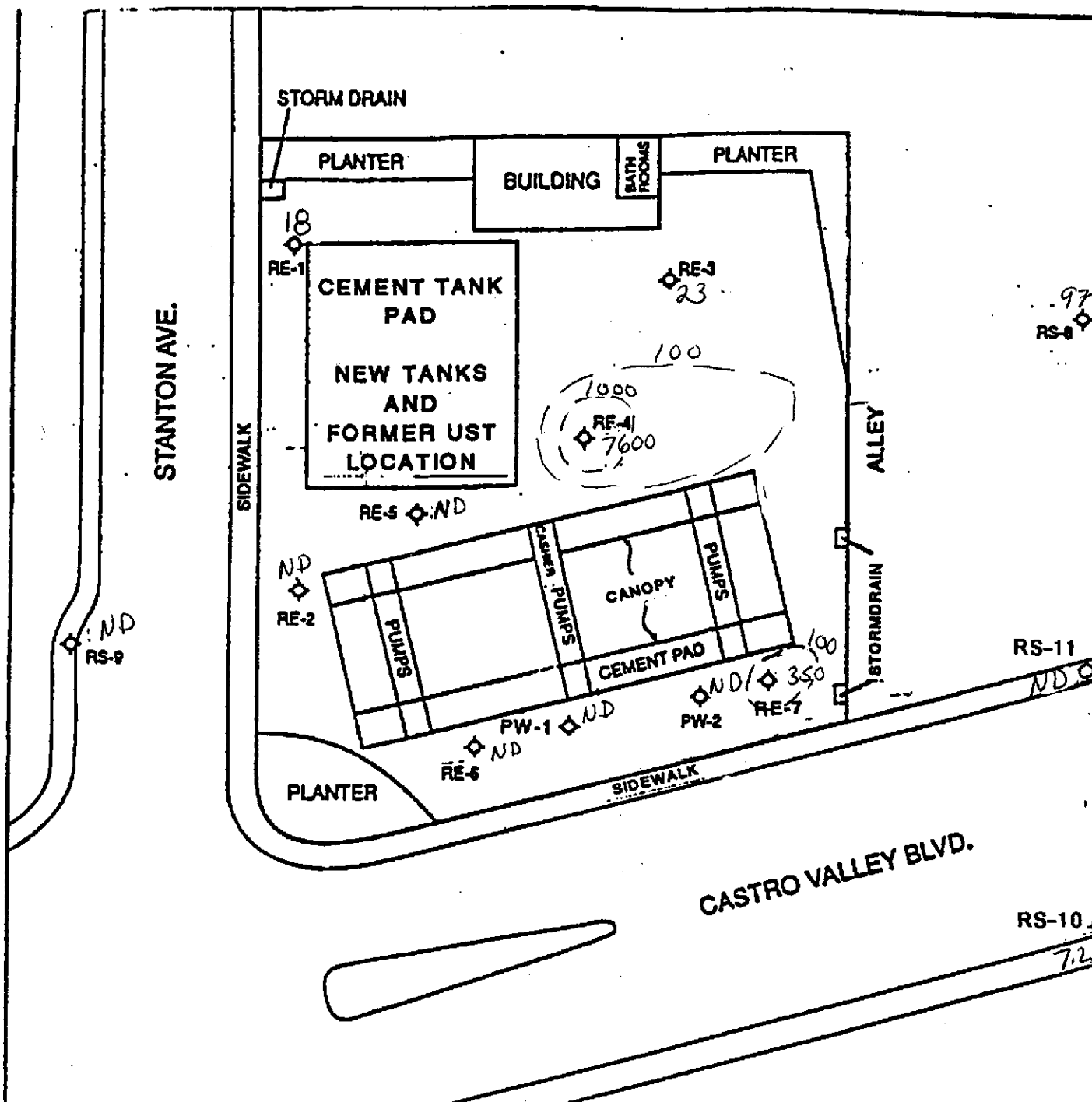
**THRIFTY OIL CO. #054
CASTRO VALLEY, CALIFORNIA**
Prepared for
**THRIFTY OIL CO.
SANTA FE, SPRINGS
CALIFORNIA**



EXISTING MONITORING WELL

Data Collected - 9/10/98.

FIGURE 3



MTBE ISOCONCENTRATION MAP ug/L

THRIFTY OIL CO. #054

CASTRO VALLEY, CALIFORNIA

Prepared for

THRIFTY OIL CO.

SANTA FE, SPRINGS

CALIFORNIA



EXISTING MONITORING WELL



FIGURE 4

TABLES

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
MONITORING WELL #PW-1											
04/11/88	NSC						-	-	-	-	-
04/09/90	230,000	600	2,700	1,000	16,000	-	5.10	-	0.00	166.46	161.36
10/30/90	35,000	240	970	240	3,580	-	6.17	-	0.00	166.46	160.29
01/18/91	37,000	43	140	42	1,600	-	6.28	-	0.00	166.46	160.18
02/12/91	45,000	99	130	25	700	-	5.88	-	0.00	166.46	160.58
03/20/91	1,900	0.43	ND	ND	2.8	-	4.75	-	0.00	166.46	161.71
05/22/91	41000	600	730	250	3800	-	5.10	-	0.00	166.46	161.36
06/19/91	NSC						5.61	-	0.00	166.46	160.85
07/17/91	NSC						5.53	FILM	0.00	166.46	160.93
08/07/91	NSC						5.67	FILM	0.00	166.46	160.79
09/24/91	NSC						5.57	FILM	0.00	166.46	160.89
10/23/91	NSC						6.53	FILM	0.00	166.46	159.93
11/06/91	NSC						5.85	FILM	0.00	166.46	160.61
12/04/91	NSC						5.91	FILM	0.00	166.46	160.55
01/29/92	NSC						5.43	FILM	0.00	166.46	161.03
02/26/92	NSC						5.54	FILM	0.00	166.46	160.92
03/19/92	ND	ND	ND	ND	ND	-	5.47	-	0.00	166.46	160.99
04/22/92	NSC						5.62	FILM	0.00	166.46	160.84
05/21/92	1,300	19	2.9	0.7	58	-	6.21	-	0.00	166.46	160.25
06/25/92	NSC						6.94	-	0.00	166.46	159.52
07/30/92	NSC						5.90	FILM	0.00	166.46	160.56
08/20/92	NSC						7.12	FILM	0.00	166.46	159.34
09/30/92	3,400	57	ND	26	240	-	6.42	-	0.00	166.46	160.04
12/23/92	NSC						5.56	FILM	0.00	166.46	160.90
03/10/93	NSC						5.65	FILM	0.00	166.46	160.81
06/09/93	400	<0.5	1.1	<1.0	<1.0	-	5.30	-	0.00	166.46	161.16
09/14/93	180	3.7	3.2	1.5	14	-	5.43	-	0.00	166.46	161.03
12/14/93	<50	<0.3	<0.3	<0.3	<0.5	-	4.65	-	0.00	166.46	161.81
03/02/94	<50	<0.3	<0.3	<0.3	<0.5	-	5.43	-	0.00	166.46	161.03
06/06/94	330	1.3	<0.3	0.88	9.8	-	4.70	-	0.00	166.46	161.76
09/06/94	1,100	67	<0.3	<0.3	24	-	6.48	-	0.00	166.46	159.98
12/07/94	<50	<0.3	<0.3	<0.5	<0.5	-	5.22	-	0.00	166.46	161.24
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	6.94	-	0.00	166.46	159.52
06/15/95	260	0.8	0.6	<0.5	3.2	-	5.72	-	0.00	166.46	160.74

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
09/05/95	330	2.1	<0.5	2.1	9.6	-	5.96	-	0.00	166.46	160.50
11/21/95	660	13	1.3	<0.3	4.0	-	6.04	-	0.00	166.46	160.42
03/11/96	660	0.94	0.77	<0.3	8.1	-	3.60	-	0.00	166.46	162.86
06/19/96	120	0.53	<0.3	<0.3	2.3	-	4.80	-	0.00	166.46	161.66
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.10	-	0.00	166.46	161.36
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	4.92	-	0.00	166.46	161.54
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.50	-	0.00	166.46	161.96
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	-	-	-	-	-
09/16/97	690	0.97	<0.3	<0.3	<0.5	<0.02	4.55	-	0.00	166.46	161.91
12/09/97	640	150	0.64	<0.3	5.2	1.3	5.60	-	0.00	166.46	160.86
03/03/98	<50	<0.3	0.57	<0.3	<0.5	<0.02	4.13	-	0.00	166.46	162.33
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	6.35	-	0.00	166.46	160.11
MONITORING WELL PW-2											
04/11/88	NSC						-	-	-	-	-
04/09/90	600,000	1,300	11,000	4,600	4,300	-	5.81	-	0.00	166.18	160.37
10/30/90	48,000	310	51	10	480	-	6.95	-	0.00	166.18	159.23
01/18/91	86,000	230	1,400	350	8,300	-	6.92	-	0.00	166.18	159.26
02/12/91	160,000	680	1,300	250	7,000	-	6.78	-	0.00	166.18	159.40
03/20/91	17,000	34	50	ND	1,100	-	5.54	-	0.00	166.18	160.64
05/22/91	14,000	57	2,100	500	8,200	-	6.07	-	0.00	166.18	160.11
06/19/91	NSC						6.37	FILM	0.00	166.18	159.81
07/17/91	NSC						6.38	FILM	0.00	166.18	159.80
08/07/91	NSC						6.63	FILM	0.00	166.18	159.55
09/24/91	NSC						6.42	FILM	0.00	166.18	159.76
10/23/91	NSC						7.25	FILM	0.00	166.18	158.93
11/06/91	NSC						6.44	FILM	0.00	166.18	159.74
12/04/91	NSC						6.65	FILM	0.00	166.18	159.53
01/29/92	NSC						6.17	FILM	0.00	166.18	160.01
02/26/92	NSC						5.90	FILM	0.00	166.18	160.28
03/19/92	NSC						5.80	FILM	0.00	166.18	160.38
04/22/92	NSC						5.88	FILM	0.00	166.18	160.30
05/21/92	NSC						6.03	FILM	0.00	166.18	160.15

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBE (ug/L)					
06/25/92	NSC						6.57	FILM	0.00	166.18	159.61
07/30/92	NSC						6.20	FILM	0.00	166.18	159.98
08/20/92	NSC						6.64	FILM	0.00	166.18	159.54
09/30/92	NSC						6.88	FILM	0.00	166.18	159.30
12/23/92	NSC						6.08	FILM	0.00	166.18	160.10
03/10/93	NSC						5.95	FILM	0.00	166.18	160.23
06/09/93	3,400	24	22	<0.5	240	-	5.38	-	0.00	166.18	160.80
09/14/93	4,900	190	15	6.8	480	-	6.26	-	0.00	166.18	159.92
12/14/93	1,700	4.2	<0.3	<0.3	<0.5	-	5.22	-	0.00	166.18	160.96
03/02/94	NSC						5.75	FILM	0.00	166.18	160.43
06/06/94	980	25	1.2	<0.3	42	-	5.25	-	0.00	166.18	160.93
09/06/94	3,200	95	3.0	<1.7	76	-	6.80	-	0.00	166.18	159.38
12/07/94	510	1.8	<0.3	<0.5	1.7	-	5.57	-	0.00	166.18	160.61
03/08/95	1,900	<0.5	<0.5	1.4	35	-	4.10	-	0.00	166.18	162.08
06/15/95	1,700	5.6	<0.5	<0.5	1.6	-	5.44	-	0.00	166.18	160.74
09/05/95	2,500	33	1.0	0.86	18	-	6.13	-	0.00	166.18	160.05
11/21/95	2,800	130	59	18	190	-	6.23	-	0.00	166.18	159.95
03/11/96	13,000	330	460	<15	3,800	-	4.48	-	0.00	166.18	161.70
06/19/96	1,400	<0.3	<0.3	<0.3	<0.5	-	5.38	-	0.00	166.18	160.80
09/16/96	3,500	<0.3	<0.3	<0.3	<0.5	5,900	5.21	-	0.00	166.18	160.97
12/10/96	2,100	<0.3	<0.3	<0.3	<0.5	4,700	4.87	-	0.00	166.18	161.31
03/12/97	600	1.6	<0.3	<0.3	5.8	1,100	4.43	-	0.00	166.18	161.75
06/12/97	270	<0.3	<0.3	<0.3	<0.5	630	-	-	-	-	-
09/10/97	220	<0.3	<0.3	<0.3	<0.5	0.32	4.07	-	0.00	166.18	162.11
12/09/97	120	<0.3	0.73	<0.3	<0.5	0.42	5.20	-	0.00	166.18	160.98
03/03/98	<50	0.43	0.48	<0.3	<0.5	0.047	3.30	-	0.00	166.18	162.88
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	5.15	-	0.00	166.18	161.03
MONITORING WELL #RE-1											
04/11/88	37,000	1,900	8,400	1,200	15,000	-	-	-	-	-	-
04/09/90	45,000	6,100	7,000	2,000	8,800	-	4.99	-	0.00	166.82	161.83
10/30/90	72,000	7,700	5,300	1,800	8,900	-	5.95	-	0.00	166.82	160.87
01/18/91	150,000	11,000	14,000	1,800	4,300	-	5.17	-	0.00	166.82	161.65

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
02/12/91	140,000	11,000	12,000	1,600	13,000	-	4.16	-	0.00	166.82	162.66
03/20/91	53,000	3,100	4,200	400	5,500	-	4.75	-	0.00	166.82	162.07
05/22/91	85,000	8,700	10,000	1,800	12,000	-	4.42	-	0.00	166.82	162.40
06/19/91	110,000	8,500	9,600	2,600	16,000	-	4.93	-	0.00	166.82	161.89
07/17/91	5,500	950	ND	26	ND	-	5.19	-	0.00	166.82	161.63
08/07/91	NA	6,700	5,000	ND	7,100	-	5.12	-	0.00	166.82	161.70
09/24/91	60,000	6,800	4,300	640	6,900	-	5.87	-	0.00	166.82	160.95
10/23/91	79,000	7,900	8,300	450	7,100	-	5.81	-	0.00	166.82	161.01
11/06/91	130,000	14,000	15,000	1,100	8,800	-	5.56	-	0.00	166.82	161.26
12/04/91	50,000	8,000	4,700	520	4,100	-	5.35	-	0.00	166.82	161.47
01/29/92	21,000	10,300	11,000	780	6,000	-	4.50	-	0.00	166.82	162.32
02/26/92	38000	8,400	10,500	720	7,100	-	5.27	-	0.00	166.82	161.55
03/19/92	48,000	6,200	9,700	780	7,200	-	4.47	-	0.00	166.82	162.35
04/22/92	NSC						4.62	-	0.00	166.82	162.20
05/21/92	20,000	7,600	10,100	830	6,900	-	4.98	-	0.00	166.82	161.84
06/25/92	NSC						5.14	FILM	0.00	166.82	161.68
07/30/92	NSC						5.30	FILM	0.00	166.82	161.52
08/20/92	NSC						5.28	FILM	0.00	166.82	161.54
09/30/92	NSC						5.66	FILM	0.00	166.82	161.16
12/23/92	NSC						4.81	FILM	0.00	166.82	162.01
03/10/93	NSC						4.13	FILM	0.00	166.82	162.69
06/09/93	NSC						4.48	FILM	0.00	166.82	162.34
09/14/93	19,000	3,600	1,100	740	4,300	-	5.35	-	0.00	166.82	161.47
12/14/93	38,000	4,300	1,300	<6.6	11	-	4.38	-	0.00	166.82	162.44
03/02/94	NSC						4.22	FILM	0.00	166.82	162.60
06/06/94	NSC						2.16	FILM	0.00	166.82	164.66
09/06/94	74,000	3,300	3,900	1,200	6,100	-	5.00	-	0.00	166.82	161.82
12/07/94	30,000	3,200	2,900	1,200	4,600	-	4.10	-	0.00	166.82	162.72
03/08/95	28,000	4,200	2,300	810	7,800	-	3.92	-	0.00	166.82	162.90
06/15/95	NSC						-	-	-	-	-
09/05/95	NSC						4.78	FILM	0.00	166.82	162.04
11/21/95	NA	NA	NA	NA	NA	-	4.82	-	0.00	166.82	162.00
03/11/96	270	2.4	6.0	4.5	19	-	3.32	-	0.00	166.82	163.50
06/19/96	3,000	570	63	<1.5	400	-	4.20	-	0.00	166.82	162.62
09/16/96	7,700	440	69	<1.5	680	230	4.68	-	0.00	166.82	162.14

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
12/10/96	52	<0.3	<0.3	<0.3	<0.5	120	4.93	-	0.00	166.82	161.89
03/12/97	8,700	180	5.4	40	1,100	130	4.10	-	0.00	166.82	162.72
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	36	-	-	-	-	-
09/16/97	<50	<0.3	<0.3	<0.3	<0.5	<0.02	4.55	-	0.00	166.82	162.27
12/09/97	<50	<0.3	0.44	<0.3	<0.5	<0.02	5.30	-	0.00	166.82	161.52
03/03/98	1,100	13	0.51	<0.3	<0.5	0.22	4.55	-	0.00	166.82	162.27
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	60	<0.3	<0.3	<0.3	<0.5	18	6.05	-	0.00	166.82	160.77
MONITORING WELL #RE-2											
04/11/88	NSC						-	-	-	-	-
04/09/90	850	5.8	0.5	4.8	1.1	-	4.90	-	0.00	167.19	162.29
10/30/90	440	2.8	0.91	13	3.14	-	5.34	-	0.00	167.19	161.85
01/18/91	1,100	8.4	3.1	ND	10	-	4.90	-	0.00	167.19	162.29
02/12/91	1,100	5.9	ND	1.77	ND	-	4.94	-	0.00	167.19	162.25
03/20/91	550	4.3	ND	ND	ND	-	4.32	-	0.00	167.19	162.87
05/22/91	1,000	5.3	3.6	4.4	8.9	-	4.43	-	0.00	167.19	162.76
06/19/91	700	2.1	1.4	3.8	3.5	-	6.43	-	0.00	167.19	160.76
07/17/91	880	12	8.0	4.3	28	-	4.75	-	0.00	167.19	162.44
08/07/91	NA	3.8	1.6	ND	ND	-	4.87	-	0.00	167.19	162.32
09/24/91	670	7.2	7.1	ND	23	-	5.50	-	0.00	167.19	161.69
10/23/91	2,700	52	60	22	130	-	5.63	-	0.00	167.19	161.56
11/06/91	1,900	18	61	9.1	83	-	5.14	-	0.00	167.19	162.05
12/04/91	1,100	26	47	4.3	42	-	5.26	-	0.00	167.19	161.93
01/29/92	900	14	24	5.3	19	-	5.11	-	0.00	167.19	162.08
02/26/92	500	3.4	3.5	2.7	2.7	-	4.31	-	0.00	167.19	162.88
03/19/92	1,200	14	20	15	18	-	4.45	-	0.00	167.19	162.74
04/22/92	200	ND	ND	ND	ND	-	4.78	-	0.00	167.19	162.41
05/21/92	500	7.5	6.8	3.9	7.4	-	5.02	-	0.00	167.19	162.17
06/25/92	ND	ND	0.9	0.7	ND	-	5.13	-	0.00	167.19	162.06
07/30/92	500	7.7	8.6	3.2	1.7	-	5.19	-	0.00	167.19	162.00
08/20/92	1,100	6.6	4.5	2.7	2.0	-	5.27	-	0.00	167.19	161.92
09/30/92	500	5.4	2.4	1.8	4.5	-	5.45	-	0.00	167.19	161.74
12/23/92	800	1.9	ND	ND	2.3	-	4.60	-	0.00	167.19	162.59

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBK (ug/L)					
03/10/93	1,200	ND	1.4	ND	2.1	-	4.18	-	0.00	167.19	163.01
06/09/93	200	ND	ND	ND	ND	-	4.53	-	0.00	167.19	162.66
09/17/93	360	1.6	1.1	3.2	8.9	-	5.26	-	0.00	167.19	161.93
12/14/93	260	5.6	3.9	<0.3	21.0	-	2.75	-	0.00	167.19	164.44
03/02/94	410	<0.3	<0.3	<0.3	<0.5	-	4.27	-	0.00	167.19	162.92
06/06/94	760	4.6	<0.3	0.32	1.3	-	4.88	-	0.00	167.19	162.31
09/06/94	1,300	43	45	8.9	69	-	5.16	-	0.00	167.19	162.03
12/07/94	NA	NA	NA	NA	NA	-	4.16	-	0.00	167.19	163.03
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	3.96	-	0.00	167.19	163.23
06/15/95	130	<0.5	<0.5	<0.5	<1	-	4.52	-	0.00	167.19	162.67
09/05/95	210	<0.5	<0.5	<0.5	<1	-	4.76	-	0.00	167.19	162.43
11/21/95	160	0.65	<0.3	0.35	0.95	-	4.83	-	0.00	167.19	162.36
03/11/96	<50	<0.3	<0.3	<0.3	<0.5	-	3.36	-	0.00	167.19	163.83
06/19/96	<50	<0.3	<0.3	<0.3	<0.5	-	4.68	-	0.00	167.19	162.51
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.10	-	0.00	167.19	162.09
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	4.47	-	0.00	167.19	162.72
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.05	-	0.00	167.19	163.14
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<0.02	4.08	-	0.00	167.19	163.11
12/09/97	<50	<0.3	<0.3	<0.3	<0.5	<0.02	4.40	-	0.00	167.19	162.79
03/03/98	<50	<0.3	<0.3	<0.3	<0.5	<0.02	3.30	-	0.00	167.19	163.89
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	15	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	4.93	-	0.00	167.19	162.26
MONITORING WELL #RE-3											
04/11/88	70,000	6,600	5,300	800	13,000	-	-	-	-	-	-
04/09/90	370,000	2,300	4,900	3,200	31,000	-	7.15	-	0.00	167.39	160.24
10/30/90	13,000	860	660	220	2,210	-	7.84	-	0.00	167.39	159.55
01/18/91	42,000	4,700	4,500	21	7,700	-	6.90	-	0.00	167.39	160.49
02/12/91	72,000	3,600	4,500	ND	7,600	-	6.62	-	0.00	167.39	160.77
03/20/91	65,000	2,400	9,400	50	9,800	-	5.87	-	0.00	167.39	161.52
05/22/91	NSC						5.98	FILM	0.00	167.39	161.41
06/19/91	NSC						6.84	FILM	0.00	167.39	160.55
07/17/91	NSC						7.10	FILM	0.00	167.39	160.29

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
08/07/91	NSC						7.30	FILM	0.00	167.39	160.09
09/24/91	NSC						7.84	FILM	0.00	167.39	159.55
10/23/91	NSC						8.07	FILM	0.00	167.39	159.32
11/06/91	NSC						7.63	FILM	0.00	167.39	159.76
12/04/91	NSC						7.83	FILM	0.00	167.39	159.56
01/29/92	NSC						7.17	FILM	0.00	167.39	160.22
02/26/92	NSC						5.56	FILM	0.00	167.39	161.83
03/19/92	NSC						5.44	FILM	0.00	167.39	161.95
04/22/92	NSC						6.56	FILM	0.00	167.39	160.83
05/21/92	NSC						6.90	FILM	0.00	167.39	160.49
06/25/92	NSC						7.18	FILM	0.00	167.39	160.21
07/30/92	NSC						6.80	FILM	0.00	167.39	160.59
08/20/92	NSC						7.25	FILM	0.00	167.39	160.14
09/30/92	NSC						7.68	FILM	0.00	167.39	159.71
12/23/92	NSC						6.07	FILM	0.00	167.39	161.32
03/10/93	NSC						5.66	FILM	0.00	167.39	161.73
06/09/93	NSC						6.66	FILM	0.00	167.39	160.73
09/14/93	40,000	2,900	1,500	180	6,900	-	7.30	-	0.00	167.39	160.09
12/14/93	NSC						5.95	-	0.00	167.39	161.44
03/02/94	NSC						5.08	-	0.00	167.39	162.31
06/06/94	NSC						6.35	FILM	0.00	167.39	161.04
09/06/94	11,000	260	26	<6.6	1,000	-	7.50	-	0.00	167.39	159.89
12/07/94	NSC						5.48	FILM	0.00	167.39	161.91
03/08/95	NSC						5.18	FILM	0.00	167.39	162.21
06/15/95	NSC						-	-	-	-	-
09/05/95	NSC						6.84	FILM	0.00	167.39	160.55
11/21/95	10,000	210	<3	4.5	330	-	7.38	-	0.00	167.39	160.01
03/11/96	1,600	640	15	10	46	-	4.85	-	0.00	167.39	162.54
06/19/96	2,100	280	<3	<3	120	-	5.80	-	0.00	167.39	161.59
09/16/96	140	<0.3	<0.3	<0.3	<0.5	110	4.50	-	0.00	167.39	162.89
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.35	-	0.00	167.39	162.04
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	3.48	-	0.00	167.39	163.91
06/12/97	<50	<0.3	<0.3	<0.3	0.58	<20	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<0.02	3.10	-	0.00	167.39	164.29
12/09/97	3,600	1,000	1,000	<6	570	0.26	4.55	-	0.00	167.39	162.84

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBB (ug/L)					
03/03/98	2,800	20	0.65	0.39	16	5.6	2.30	-	0.00	167.39	165.09
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	23	4.95	-	0.00	167.39	162.44
MONITORING WELL #RE-4											
04/11/88	15,000	12,000	8,000	1,000	2,700	-	-	-	-	-	-
04/09/90	NSC						-	-	-	-	-
10/30/90	87,000	7,200	10,000	1,600	12,900	-	7.04	-	0.00	166.94	159.90
01/18/91	70,000	5,000	5,400	790	9,900	-	11.62	-	0.00	166.94	155.32
02/12/91	87,000	5,200	2,800	240	11,000	-	11.63	-	0.00	166.94	155.31
03/20/91	6,500	370	230	17	670	-	11.61	-	0.00	166.94	155.33
05/22/91	NSC						10.30	FILM	0.00	166.94	156.64
06/19/91	NSC						11.10	FILM	0.00	166.94	155.84
07/17/91	NSC						6.20	FILM	0.00	166.94	160.74
08/17/91	NSC						8.15	FILM	0.00	166.94	158.79
09/24/91	NSC						10.40	FILM	0.00	166.94	156.54
10/23/91	NSC						11.20	FILM	0.00	166.94	155.74
11/06/91	NSC						6.62	FILM	0.00	166.94	160.32
12/04/91	NSC						11.20	ILM	0.00	166.94	155.74
01/29/92	NSC						7.72	FILM	0.00	166.94	159.22
02/26/92	NSC						5.13	FILM	0.00	166.94	161.81
03/19/92	NSC						5.00	FILM	0.00	166.94	161.94
04/22/92	NSC						5.94	FILM	0.00	166.94	161.00
05/21/92	NSC						5.40	FILM	0.00	166.94	161.54
06/25/92	NSC						5.71	FILM	0.00	166.94	161.23
07/30/92	NSC						6.33	FILM	0.00	166.94	160.61
08/20/92	NSC						5.80	FILM	0.00	166.94	161.14
09/30/92	NSC						6.34	FILM	0.00	166.94	160.60
12/23/92	NSC						5.50	FILM	0.00	166.94	161.44
03/10/93	NSC						4.67	FILM	0.00	166.94	162.27
06/09/93	NSC						5.12	FILM	0.00	166.94	161.82
09/14/93	NSC						10.44	-	0.00	166.94	156.50
12/14/93	NSC						7.52	-	0.00	166.94	159.42
03/02/94	NSC						4.85	-	0.00	166.94	162.09

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
06/06/94	NSC						5.20	FILM	0.00	166.94	161.74
09/06/94	NSC						9.85	FILM	0.00	166.94	157.09
12/07/94	NSC						5.20	FILM	0.00	166.94	161.74
03/08/95	NSC						4.98	FILM	0.00	166.94	161.96
06/15/95	NSC						-	-	-	-	-
09/05/95	NSC						13.72	FILM	0.00	166.94	153.22
11/21/95	32,000	46	21	66	340	-	12.53	-	0.00	166.94	154.41
03/11/96	1,700	130	15	2.0	120	-	4.72	-	0.00	166.94	162.22
06/19/96	1,700	230	30	0.35	100	-	5.40	-	0.00	166.94	161.54
09/16/96	510	<0.3	0.73	<0.3	<0.5	800	5.18	-	0.00	166.94	161.76
12/10/96	520	<0.3	<0.3	<0.3	<0.5	1,000	4.65	-	0.00	166.94	162.29
03/12/97	420	3.2	<0.3	<0.3	11	370	3.87	-	0.00	166.94	163.07
06/12/97	510	0.66	<0.3	<0.3	<0.5	1,600	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<0.02	5.40	-	0.00	166.94	161.54
12/09/97	1,400	330	2.3	<0.3	1.5	2.5	4.60	-	0.00	166.94	162.34
03/03/98	3,000	400	0.61	0.5	97	3.8	5.05	-	0.00	166.94	161.89
07/08/98	650	<0.3	<0.3	<0.3	<0.5	1,800	-	-	-	-	-
09/10/98	2,700	<0.3	<0.3	<0.3	1.4	7,600	4.60	-	0.00	166.94	162.34
MONITORING WELL #RE-5											
04/11/88	14,000	1,300	1,100	100	2,600	-	-	-	-	-	-
04/09/90	3,000	690	190	40	270	-	4.79	-	0.00	166.51	161.72
10/30/90	3,400	910	48	87	249	-	5.86	-	0.00	166.51	160.65
01/18/91	1,400	180	8.6	0.52	48	-	4.40	-	0.00	166.51	162.11
02/12/91	1,000	ND	ND	0.65	ND	-	4.76	-	0.00	166.51	161.75
03/20/91	3,000	250	53	ND	110	-	5.08	-	0.00	166.51	161.43
05/22/91	2,500	330	7.8	5.6	200	-	4.52	-	0.00	166.51	161.99
01/19/91	2,000	59	1.6	5.1	110	-	4.39	-	0.00	166.51	162.12
07/17/91	NSC						5.05	FILM	0.00	166.51	161.46
08/07/91	NSC						5.02	FILM	0.00	166.51	161.49
09/24/91	NSC						5.86	FILM	0.00	166.51	160.65
10/23/91	NSC						5.84	FILM	0.00	166.51	160.67
11/06/91	9,900	2,300	37	260	160	-	5.48	-	0.00	166.51	161.03
12/04/91	4,500	1,000	27	ND	180	-	5.43	-	0.00	166.51	161.08

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
01/29/92	600	6.1	2.3	ND	47	-	5.12	-	0.00	166.51	161.39
02/26/92	500	5.4	2.7	1.2	14	-	4.93	-	0.00	166.51	161.58
03/19/92	ND	1.7	1.1	ND	5.5	-	4.45	-	0.00	166.51	162.06
04/22/92	1,600	240	2.2	ND	160	-	4.63	-	0.00	166.51	161.88
05/21/92	1,200	410	37	ND	118	-	4.90	-	0.00	166.51	161.61
06/25/92	ND	1.0	0.8	0.8	0.4	-	5.15	-	0.00	166.51	161.36
07/30/92	ND	2.0	1.8	1.9	6.4	-	5.30	-	0.00	166.51	161.21
08/20/92	300	1.7	3.3	0.7	12	-	5.44	-	0.00	166.51	161.07
09/30/92	1,900	140	ND	19	35	-	5.73	-	0.00	166.51	160.78
12/23/92	400	8.0	ND	ND	ND	-	4.75	-	0.00	166.51	161.76
03/10/93	1,100	290	9.7	ND	75	-	4.14	-	0.00	166.51	162.37
06/09/93	400	1.5	0.5	ND	12	-	5.42	-	0.00	166.51	161.09
09/14/93	240	6.9	8.8	1.4	67	-	5.53	-	0.00	166.51	160.98
12/14/93	3,300	510	5.4	4.1	55	-	478	-	0.00	166.51	-311.49
03/02/94	2,400	270	4.5	<0.3	13	-	4.20	-	0.00	166.51	162.31
06/06/94	730	<0.3	<0.3	0.70	22	-	5.13	-	0.00	166.51	161.38
09/06/94	2,400	180	28	2.3	76	-	5.45	-	0.00	166.51	161.06
12/07/94	540	5.6	<0.3	<0.5	6.9	-	4.13	-	0.00	166.51	162.38
03/08/95	1,500	220	5.5	<0.5	83	-	5.20	-	0.00	166.51	161.31
06/15/95	3,200	820	53	6.2	74	-	4.93	-	0.00	166.51	161.58
09/05/95	4,400	440	22	<2.5	57	-	5.03	-	0.00	166.51	161.48
11/21/95	660	3.4	<0.3	<0.3	0.6	-	5.23	-	0.00	166.51	161.28
03/11/96	1,000	76	2.2	<0.3	130	-	4.16	-	0.00	166.51	162.35
06/09/96	90	<0.3	<0.3	<0.3	<0.5	-	5.42	-	0.00	166.51	161.09
09/16/96	1,900	5.8	<0.3	<0.3	5.9	1,100	5.20	-	0.00	166.51	161.31
12/10/96	740	<0.3	<0.3	<0.3	<0.5	1,300	5.27	-	0.00	166.51	161.24
03/12/97	2,000	600	59	5.1	54	1,300	3.85	-	0.00	166.51	162.66
06/12/97	230	<0.3	<0.3	<0.3	<0.5	720	-	-	-	-	-
09/10/97	210	<0.3	<0.3	<0.3	<0.5	0.21	4.10	-	0.00	166.51	162.41
12/09/97	11,000	2,500	2,700	<6	1,500	0.51	5.20	-	0.00	166.51	161.31
03/03/98	<50	<0.3	<0.3	<0.3	<0.5	<0.02	3.70	-	0.00	166.51	162.81
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	6.77	-	0.00	166.51	159.74

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
MONITORING WELL #R-6											
04/11/88	6,000	3,000	40	80	140	-	-	-	-	-	-
04/09/90	3,000	990	ND	70	ND	-	5.64	-	0.00	166.51	160.87
10/30/90	3,400	1,000	28	ND	ND	-	6.68	-	0.00	166.51	159.83
01/18/91	6,300	1,200	ND	3.0	15	-	6.61	-	0.00	166.51	159.90
02/12/91	5,200	850	8.4	4.9	41	-	6.20	-	0.00	166.51	160.31
03/20/91	5,800	680	12	8.0	16	-	5.62	-	0.00	166.51	160.89
05/22/91	8,500	1,700	14	24	6.7	-	6.05	-	0.00	166.51	160.46
06/19/91	NSC						6.12	FILM	0.00	166.51	160.39
07/17/91	120,000	9,300	13,000	2,400	16,000	-	6.20	-	0.00	166.51	160.31
08/07/91	NA	590	5.3	ND	14	-	6.27	-	0.00	166.51	160.24
09/24/91	7,000	310	11	5.3	35	-	6.63	-	0.00	166.51	159.88
10/23/91	NSC						6.36	FILM	0.00	166.51	160.15
11/06/91	4,000	710	18	29	49	-	6.15	-	0.00	166.51	160.36
12/04/91	4,100	1,100	14	33	39	-	6.19	-	0.00	166.51	160.32
01/29/92	2,600	790	14	ND	49	-	6.70	-	0.00	166.51	159.81
02/26/92	3,100	950	21	30	33	-	5.44	-	0.00	166.51	161.07
03/19/92	2,200	630	14	12	40	-	5.30	-	0.00	166.51	161.21
04/22/92	NA	730	2.2	ND	40	-	6.00	-	0.00	166.51	160.51
05/21/92	1,500	840	7.8	7.1	34	-	6.25	-	0.00	166.51	160.26
06/25/92	<2000	740	8.0	27	28	-	6.38	-	0.00	166.51	160.13
07/30/92	NSC						6.42	FILM	0.00	166.51	160.09
08/20/92	2,800	630	17	23	22	-	6.50	-	0.00	166.51	160.01
09/30/92	7,800	540	ND	12	29	-	6.66	-	0.00	166.51	159.85
12/23/92	1,800	350	ND	7.7	11	-	5.83	-	0.00	166.51	160.68
03/10/93	3,000	830	5.6	19	16	-	5.63	-	0.00	166.51	160.88
06/09/93	4,800	920	6.2	3.2	12	-	6.01	-	0.00	166.51	160.50
09/14/93	3,600	660	7.5	11	27	-	6.53	-	0.00	166.51	159.98
12/14/93	1,500	200	<0.3	<0.3	8.8	-	3.58	-	0.00	166.51	162.93
03/02/94	NSC						5.12	-	0.00	166.51	161.39
06/06/94	2,400	290	4.6	1.3	24	-	1.85	-	0.00	166.51	164.66
09/06/94	4,300	230	21	<6.6	130	-	6.40	-	0.00	166.51	160.11
12/07/94	1,500	17	2.5	3.2	22	-	5.68	-	0.00	166.51	160.83
03/08/95	2,500	460	5.5	2.1	51	-	5.12	-	0.00	166.51	161.39
06/15/95	2,300	91	1.1	0.7	97	-	5.72	-	0.00	166.51	160.79

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
09/05/95	3,300	60	<10	<10	74	-	5.94	-	0.00	166.51	160.57
11/21/95	2,000	7.3	<0.3	0.56	8.7	-	6.24	-	0.00	166.51	160.27
03/11/96	840	43	0.96	5.7	14	-	5.16	-	0.00	166.51	161.35
06/19/96	1,800	160	2.7	9.9	25	-	5.80	-	0.00	166.51	160.71
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.38	-	0.00	166.51	161.13
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.62	-	0.00	166.51	160.89
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	5.20	-	0.00	166.51	161.31
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	-	-	-	-	-
09/10/97	440	<0.3	<0.3	<0.3	<0.5	0.32	5.20	-	0.00	166.51	161.31
12/09/97	<50	<0.3	<0.3	<0.3	<0.5	<0.02	5.97	-	0.00	166.51	160.54
03/03/98	400	7.0	<0.3	<0.3	4.3	0.065	4.45	-	0.00	166.51	162.06
07/08/98	300	<0.3	<0.3	<0.3	1.0	35	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	5.90	-	0.00	166.51	160.61
MONITORING WELL #RE-7											
04/11/88	<50000	17,000	4,400	600	8,400	-	-	-	-	-	-
04/09/90	16,000	7,000	1,200	640	1,600	-	5.93	-	0.00	166.04	160.11
10/30/90	31,000	14,000	ND	ND	ND	-	8.21	-	0.00	166.04	157.83
01/18/91	NSC						11.80	-	0.00	166.04	154.24
02/12/91	NSC						10.80	FILM	0.00	166.04	155.24
03/20/91	120,000	12,000	2,800	490	6,600	-	9.96	-	0.00	166.04	156.08
05/22/91	NSC						11.70	FILM	0.00	166.04	154.34
06/19/91	NSC						11.50	FILM	0.00	166.04	154.54
07/17/91	NSC						7.80	FILM	0.00	166.04	158.24
08/07/91	NSC						9.88	0.03	9.85	166.04	163.60
09/24/91	NSC						9.85	0.03	9.82	166.04	163.60
10/23/91	NSC						9.96	FILM	0.00	166.04	156.08
11/06/91	NSC						6.77	FILM	0.00	166.04	159.27
12/04/91	NSC						10.80	FILM	0.00	166.04	155.24
01/29/92	NSC						8.64	FILM	0.00	166.04	157.40
02/26/92	NSC						6.00	FILM	0.00	166.04	160.04
03/19/92	NSC						5.55	FILM	0.00	166.04	160.49
04/22/92	NSC						6.12	FILM	0.00	166.04	159.92
05/21/92	NSC						6.40	FILM	0.00	166.04	159.64

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
06/25/92	NSC						6.73	0.02	6.71	166.04	164.38
07/30/92	NSC						6.73	FILM	0.00	166.04	159.31
08/20/92	NSC						6.82	FILM	0.00	166.04	159.22
09/30/92	NSC						7.26	FILM	0.00	166.04	158.78
12/23/92	NSC						6.22	FILM	0.00	166.04	159.82
03/10/93	NSC						5.82	FILM	0.00	166.04	160.22
06/09/93	NSC						6.17	FILM	0.00	166.04	159.87
09/14/93	NSC						11.33	-	0.00	166.04	154.71
12/14/93	NSC						8.40	-	0.00	166.04	157.64
03/02/94	NSC						6.82	-	0.00	166.04	159.22
06/06/94	NSC						10.95	FILM	0.00	166.04	155.09
09/06/94	NSC						11.30	FILM	0.00	166.04	154.74
12/07/94	NSC						5.63	FILM	0.00	166.04	160.41
03/08/95	NSC						5.06	FILM	0.00	166.04	160.98
06/15/95	NSC						-	-	-	-	-
09/05/95	NSC						7.98	FILM	0.00	166.04	158.06
11/21/95	20,000	8,800	110	<30	310	-	7.32	-	0.00	166.04	158.72
03/11/96	4,800	2,200	38	26	120	-	5.62	-	0.00	166.04	160.42
06/19/96	4,400	3,300	49	5.8	70	-	6.40	-	0.00	166.04	159.64
09/19/96	7,200	510	83	<0.3	710	130	6.20	-	0.00	166.04	159.84
12/10/96	700	<0.3	<0.3	<0.3	<0.5	1,400	5.92	-	0.00	166.04	160.12
03/12/97	660	0.31	<0.3	<0.3	<0.5	1,400	5.62	-	0.00	166.04	160.42
06/12/97	320	<0.3	0.45	<0.3	<0.5	850	-	-	-	-	-
09/10/97	780	<0.3	<0.3	<0.3	<0.5	0.93	7.45	-	0.00	166.04	158.59
12/09/97	14,000	3,500	3,700	<15	2,100	1.1	7.10	-	0.00	166.04	158.94
03/03/98	6,100	2,500	18	<6	110	0.27	6.70	-	0.00	166.04	159.34
07/08/98	1,300	8.7	<0.3	<0.3	<0.5	350	-	-	-	-	-
09/10/98	690	2.2	<0.3	<0.3	<0.5	350	7.04	-	0.00	166.04	159.00
MONITORING WELL #RS-3											
08/07/91	ND	ND	ND	ND	ND	-	9.68	-	0.00	164.32	154.64
09/27/91	ND	ND	ND	ND	ND	-	9.89	-	0.00	164.32	154.43
10/23/91	ND	ND	ND	ND	ND	-	10.05	-	0.00	164.32	154.27
11/06/91	ND	ND	ND	ND	ND	-	9.71	-	0.00	164.32	154.61

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBE (ug/L)					
12/04/91	ND	ND	ND	ND	ND	-	10.00	-	0.00	164.32	154.32
01/29/92	ND	2.1	1.0	2.5	3.6	-	9.28	-	0.00	164.32	155.04
02/26/92	ND	ND	0.7	ND	0.7	-	7.05	-	0.00	164.32	157.27
03/19/92	ND	0.5	1.0	1.5	2.7	-	7.30	-	0.00	164.32	157.02
04/22/92	ND	ND	ND	ND	ND	-	8.60	-	0.00	164.32	155.72
05/21/92	ND	ND	ND	ND	ND	-	9.22	-	0.00	164.32	155.10
06/25/92	ND	ND	ND	ND	ND	-	9.49	-	0.00	164.32	154.83
07/30/92	ND	1.1	4.2	ND	3.0	-	9.55	-	0.00	164.32	154.77
08/20/92	ND	2.0	4.7	ND	5.7	-	9.63	-	0.00	164.32	154.69
09/30/92	ND	ND	ND	ND	ND	-	9.90	-	0.00	164.32	154.42
12/23/92	ND	ND	ND	ND	ND	-	9.96	-	0.00	164.32	154.36
05/10/93	ND	ND	ND	ND	ND	-	8.95	-	0.00	164.32	155.37
06/09/93	ND	ND	ND	ND	ND	-	9.00	-	0.00	164.32	155.32
09/14/93	200	0.3	ND	ND	ND	-	9.50	-	0.00	164.32	154.82
12/14/93	ND	ND	ND	ND	ND	-	8.75	-	0.00	164.32	155.57
03/02/94	<50	<0.3	<0.3	<0.3	<0.5	-	7.52	-	0.00	164.32	156.80
06/06/94	54	<0.3	<0.3	<0.3	2.4	-	9.00	-	0.00	164.32	155.32
09/06/94	<50	<0.3	<0.3	<0.3	<0.5	-	9.26	-	0.00	164.32	155.06
12/07/94	130	2.5	1.9	1.3	3.6	-	8.67	-	0.00	164.32	155.65
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	8.34	-	0.00	164.32	155.98
06/15/95	<100	1.0	<0.5	<0.5	<1	-	9.12	-	0.00	164.32	155.20
09/05/95	<100	<0.5	<0.5	<0.5	<1	-	9.56	-	0.00	164.32	154.76
11/21/95	<50	0.44	<0.3	<0.3	1.5	-	9.28	-	0.00	164.32	155.04
03/11/96	<50	1.3	<0.3	<0.3	0.6	-	7.52	-	0.00	164.32	156.80
06/19/96	640	72	20	34	150	-	7.80	-	0.00	164.32	156.52
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	20	9.18	-	0.00	164.32	155.14
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.08	-	0.00	164.32	158.24
03/12/97	53	0.45	<0.3	<0.3	<0.5	140	8.65	-	0.00	164.32	155.67
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	68	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<0.02	8.30	-	0.00	164.32	156.02
12/09/97	<50	1.7	2.1	<0.3	1.4	0.082	9.98	-	0.00	164.32	154.34
03/03/98	<50	<0.3	<0.3	<0.3	<0.5	0.084	8.33	-	0.00	164.32	155.99
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	97	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	97	12.95	-	0.00	164.32	151.37

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
MONITORING WELL #RS-9											
08/07/91	NA	0.5	ND	330	1,200	-	2.28	-	0.00	167.51	165.23
09/27/91	13,000	3.5	3.0	82	140	-	2.77	-	0.00	167.51	164.74
10/23/91	11,000	ND	ND	39	340	-	3.53	-	0.00	167.51	163.98
11/06/91	6,800	8.4	0.6	22	230	-	2.51	-	0.00	167.51	165.00
12/04/91	6,500	6.5	0.7	87	200	-	3.20	-	0.00	167.51	164.31
01/29/92	8,100	22	10	140	260	-	2.65	-	0.00	167.51	164.86
02/26/92	13,000	40	16	220	600	-	3.42	-	0.00	167.51	164.09
03/19/92	12,000	21	12	100	280	-	3.12	-	0.00	167.51	164.39
04/22/92	8,600	ND	ND	20	37	-	3.24	-	0.00	167.51	164.27
05/21/92	6,000	21	10	53	210	-	3.75	-	0.00	167.51	163.76
06/25/92	370	2.3	1.5	0.7	4.3	-	2.65	-	0.00	167.51	164.86
07/30/92	3,600	20	ND	39	80	-	2.70	-	0.00	167.51	164.81
08/20/92	3,000	0.7	5.2	2.0	5.3	-	2.83	-	0.00	167.51	164.68
09/30/92	9,200	4.8	6.5	12	91	-	2.80	-	0.00	167.51	164.71
12/23/92	2,000	17	ND	8.2	18	-	2.45	-	0.00	167.51	165.06
03/10/93	1,500	ND	2.6	21	12	-	2.40	-	0.00	167.51	165.11
06/09/93	1,300	0.6	1.7	ND	7.5	-	3.55	-	0.00	167.51	163.96
09/14/93	1,500	1.3	7.6	4.1	14.0	-	2.81	-	0.00	167.51	164.70
12/14/93	560	ND	ND	ND	5.5	-	2.63	-	0.00	167.51	164.88
03/02/94	1,100	<0.3	<0.3	<0.3	<0.5	-	2.60	-	0.00	167.51	164.91
06/06/94	290	0.58	0.53	1.1	5.8	-	2.52	-	0.00	167.51	164.99
09/06/94	890	<0.3	<0.3	<0.3	3.1	-	3.16	-	0.00	167.51	164.35
12/07/94	940	22	23	10	32	-	5.18	-	0.00	167.51	162.33
03/08/95	1,600	<0.5	<0.5	<0.5	2.3	-	4.57	-	0.00	167.51	162.94
06/15/95	3,200	2.2	5.3	4.3	3.1	-	5.08	-	0.00	167.51	162.43
09/05/95	1,100	<0.5	<0.5	<0.5	<1	-	5.72	-	0.00	167.51	161.79
11/21/95	1,100	1.1	2.9	3.5	3.0	-	2.46	-	0.00	167.51	165.05
03/11/96	440	0.7	0.34	<0.3	3.7	-	3.44	-	0.00	167.51	164.07
06/19/96	580	3.8	0.49	1.2	<0.5	-	3.80	-	0.00	167.51	163.71
09/16/96	490	<0.3	1.6	<0.3	<0.5	<20	3.80	-	0.00	167.51	163.71
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	2.76	-	0.00	167.51	164.75
03/12/97	<50	<0.3	0.42	<0.3	1.5	<20	3.20	-	0.00	167.51	164.31
06/12/97	<50	<0.3	<0.3	<0.3	0.51	<20	-	-	-	-	-

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<0.02	4.24	-	0.00	167.51	163.27
12/09/97	<50	<0.3	0.48	<0.3	<0.5	<0.02	2.72	-	0.00	167.51	164.79
03/03/98	190	<0.3	<0.3	0.38	<0.5	<0.02	1.90	-	0.00	167.51	165.61
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	2.72	-	0.00	167.51	164.79
MONITORING WELL #RS-10											
08/07/91	ND	ND	ND	ND	ND	-	6.16	-	0.00	162.89	156.73
09/27/91	ND	ND	ND	ND	ND	-	6.48	-	0.00	162.89	156.41
10/23/91	ND	ND	ND	ND	ND	-	7.37	-	0.00	162.89	155.52
11/06/91	ND	ND	ND	ND	ND	-	6.44	-	0.00	162.89	156.45
12/04/91	ND	ND	ND	ND	ND	-	7.02	-	0.00	162.89	155.87
01/29/92	ND	ND	ND	ND	ND	-	6.78	-	0.00	162.89	156.11
02/26/92	ND	ND	ND	ND	ND	-	8.33	-	0.00	162.89	154.56
03/19/92	ND	ND	ND	ND	0.6	-	8.02	-	0.00	162.89	154.87
04/22/92	ND	ND	ND	ND	ND	-	7.78	-	0.00	162.89	155.11
05/21/92	ND	ND	0.6	ND	1.2	-	6.21	-	0.00	162.89	156.68
06/25/92	ND	ND	ND	ND	ND	-	7.73	-	0.00	162.89	155.16
07/30/92	ND	ND	0.5	ND	1.0	-	7.84	-	0.00	162.89	155.05
08/20/92	ND	ND	ND	ND	ND	-	7.50	-	0.00	162.89	155.39
09/30/92	ND	ND	ND	ND	ND	-	7.63	-	0.00	162.89	155.26
12/23/92	ND	ND	ND	ND	ND	-	7.24	-	0.00	162.89	155.65
03/10/93	ND	ND	ND	ND	ND	-	6.38	-	0.00	162.89	156.51
06/09/93	ND	ND	ND	ND	ND	-	7.98	-	0.00	162.89	154.91
09/14/93	ND	ND	ND	ND	ND	-	7.35	-	0.00	162.89	155.54
03/02/94	<50	<0.3	<0.3	<0.3	<0.3	-	7.00	-	0.00	162.89	155.89
06/06/94	<50	<0.3	<0.3	<0.3	<0.5	-	6.55	-	0.00	162.89	156.34
09/06/94	<50	<0.3	<0.3	<0.3	<0.5	-	7.63	-	0.00	162.89	155.26
12/07/94	56	<0.3	<0.3	<0.5	2.1	-	5.92	-	0.00	162.89	156.97
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	7.84	-	0.00	162.89	155.05
06/15/95	<100	<0.5	<0.5	<0.5	<1	-	6.97	-	0.00	162.89	155.92
09/05/95	<100	<0.5	<0.5	<0.5	<1	-	8.14	-	0.00	162.89	154.75
11/21/95	<50	<0.3	<0.3	<0.3	<0.5	-	7.68	-	0.00	162.89	155.21
03/11/96	<50	<0.3	<0.3	<0.3	<0.5	-	6.76	-	0.00	162.89	156.13

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #054, CASTRO VALLEY, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
06/19/96	<50	<0.3	<0.3	<0.3	<0.5	-	7.20	-	0.00	162.89	155.69
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.30	-	0.00	162.89	156.59
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.05	-	0.00	162.89	156.84
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	7.56	-	0.00	162.89	155.33
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<0.02	7.55	-	0.00	162.89	155.34
* 12/09/97	1,900	610	510	<6	290	<0.02	7.55	-	0.00	162.89	155.34
03/03/98	<50	2.0	<0.3	<0.3	<0.5	0.027	6.03	-	0.00	162.89	156.86
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	7.2	7.55	-	0.00	162.89	155.34
MONITORING WELL #RS-11											
09/21/95	110	<0.5	<0.5	<0.5	<1	-	9.37	-	0.00	163.28	153.91
11/21/95	NA	NA	NA	NA	NA	-	-	-	0.00	163.28	163.28
03/11/96	NA	NA	NA	NA	NA	-	-	-	0.00	163.28	163.28
06/19/96	NA	NA	NA	NA	NA	-	-	-	0.00	163.28	163.28
09/16/96	NA	NA	NA	NA	NA	-	-	-	0.00	163.28	163.28
03/12/97	74	9.5	<0.3	<0.3	0.57	<20	7.75	-	0.00	163.28	155.53
06/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<0.02	9.50	-	0.00	163.28	153.78
12/09/97	<50	0.79	1.2	<0.3	<0.5	<0.02	9.50	-	0.00	163.28	153.78
03/03/98	140	22	0.63	<0.3	<0.5	<0.02	7.93	-	0.00	163.28	155.35
07/08/98	<50	<0.3	<0.3	<0.3	<0.5	<5	-	-	-	-	-
09/10/98	<50	<0.3	<0.3	<0.3	<0.5	<5	9.48	-	0.00	163.28	153.80

NOTE:

ND = Nondetectable

NA = Not Analyzed

NSC = No sample collected

Benzene, toluene, ethylbenzene, and xylene analyzed by EPA method 8020.

Total petroleum hydrocarbons (TPH) analyzed by EPA method 8015 modified for gasoline

Methyl-tert Butyl Ether (MTBE) analyzed by EPA method 8020 or 8260

Table 2

SUMMARY OF S.A.V.E. SYSTEM INFLUENT/EFFLUENT WATER ANALYSES

Inlet-Water

<u>Date</u>	<u>TPH</u>	<u>B</u>	<u>T</u>	<u>E</u>	<u>X</u>
3/17/98	19,000	ND	ND	ND	ND
4/15/98	3,900	ND	ND	ND	ND
5/26/98	1,000	6.7	0.74	ND	11
6/11/98	880	2.0	ND	ND	ND
7/07/98	2,100	0.84	2.0	0.68	390
9/28/98	5,100	2.0	ND	ND	18

Outlet-Water

<u>Date</u>	<u>TPH</u>	<u>B</u>	<u>T</u>	<u>E</u>	<u>X</u>
3/17/98	ND	ND	ND	ND	ND
4/15/98	ND	ND	ND	ND	ND
5/26/98	ND	ND	ND	ND	ND
6/11/98	500	0.65	ND	ND	ND
7/07/98	610	ND	ND	ND	ND
9/28/98	670	ND	ND	ND	ND

APPENDIX A



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054 ✓
Sample Matrix: Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054-85 ✓
Date Received: 09/15/98
Date Reported: 09/18/98
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
76330	RS-9	09/10/98	09/15/98	<50	50
76331	RE-1	09/10/98	09/15/98	60	50
76332	RE-2	09/10/98	09/15/98	<50	50
76333	RE-6	09/10/98	09/15/98	<50	50
76334	PW-1	09/10/98	09/16/98	<50	50
76335	PW-2	09/10/98	09/16/98	<50	50
76336	RE-7	09/10/98	09/16/98	690	50
76337	RE-5	09/10/98	09/16/98	<50	50
76338	RE-4	09/10/98	09/17/98	2700	50
76339	RE-3	09/10/98	09/16/98	<50	50
76340	RS-8	09/10/98	09/16/98	<50	50
76341	RS-11	09/10/98	09/16/98	<50	50
76342	RS-10	09/10/98	09/16/98	<50	50
76343	Trip Blank	09/10/98	09/15/98	<50	50

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.


George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-85
Date Received: 09/15/98
Date Reported: 09/18/98
Units: ug/L

Date Sampled:	09/10/98	09/10/98	09/10/98	09/10/98	
Date Analyzed:	09/15/98	09/15/98	09/15/98	09/15/98	
AA ID No.:	76330	76331	76332	76333	
Client ID No.:	RS-9	RE-1	RE-2	RE-6	MRL
<u>Compounds:</u>					
Benzene	<0.3	<0.3	<0.3	<0.3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	<0.5	<0.5	0.5

George Havalias
Laboratory Director



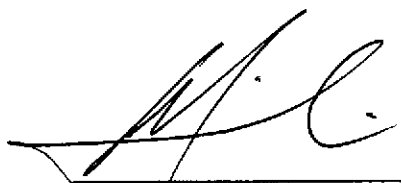
LABORATORY ANALYSIS RESULTS

Page 2

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-85
Date Received: 09/15/98
Date Reported: 09/18/98
Units: ug/L

Date Sampled:	09/10/98	09/10/98	09/10/98	09/10/98	
Date Analyzed:	09/16/98	09/16/98	09/16/98	09/16/98	
AA ID No.:	76334	76335	76336	76337	
Client ID No.:	PW-1	PW-2	RE-7	RE-5	MRL
<u>Compounds:</u>					
Benzene	<0.3	<0.3	2.2	<0.3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	<0.5	<0.5	0.5


George Havalias
Laboratory Director



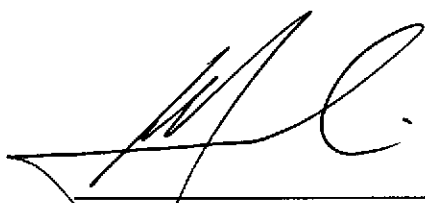
LABORATORY ANALYSIS RESULTS

Page 3

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-85
Date Received: 09/15/98
Date Reported: 09/18/98
Units: ug/L

Date Sampled:	09/10/98	09/10/98	09/10/98	09/10/98	
Date Analyzed:	09/16/98	09/16/98	09/16/98	09/16/98	
AA ID No.:	76338	76339	76340	76341	
Client ID No.:	RE-4	RE-3	RS-8	RS-11	MRL
Compounds:					
Benzene	<0.3	<0.3	<0.3	<0.3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	<0.3	<0.3	0.3
Xylenes	1.4	<0.5	<0.5	<0.5	0.5


George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 4

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: EPA 8020 (BTEX)

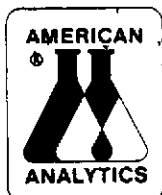
AA Project No.: A135054-85
Date Received: 09/15/98
Date Reported: 09/18/98
Units: ug/L

Date Sampled:	09/10/98	09/10/98	
Date Analyzed:	09/16/98	09/15/98	
AA ID No.:	76342	76343	
Client ID No.:	RS-10	Trip Blank	MRL
Compounds:			
Benzene	<0.3	<0.3	0.3
Ethylbenzene	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	0.5

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.


George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1


Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: MTBE (EPA 8020)

AA Project No.: A135054-85
Date Received: 09/15/98
Date Reported: 09/18/98
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
76330	RS-9	09/10/98	09/15/98	<5	5
76331	RE-1	09/10/98	09/15/98	18	5
76332	RE-2	09/10/98	09/15/98	<5	5
76333	RE-6	09/10/98	09/15/98	<5	5
76334	PW-1	09/10/98	09/16/98	<5	5
76335	PW-2	09/10/98	09/16/98	<5	5
76336	RE-7	09/10/98	09/16/98	350	5
76337	RE-5	09/10/98	09/16/98	<5	5
76338	RE-4	09/10/98	09/17/98	7600	5
76339	RE-3	09/10/98	09/16/98	23	5
76340	RS-8	09/10/98	09/16/98	97	5
76341	RS-11	09/10/98	09/16/98	<5	5
76342	RS-10	09/10/98	09/16/98	7.2	5

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.



George Havalias
Laboratory Director



LABORATORY QA/QC REPORT

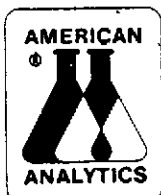
Page 1

Client: Thrifty Oil Company
Project Name:
Method: EPA 8020 (BTEX)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 76335
Project No.:
AA Project No.: A135054-85
Date Analyzed: 09/16/98
Date Reported: 09/17/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Benzene	19.49	97	18.30	92	5	65 - 135
Ethylbenzene	19.21	96	20.55	103	7	77 - 123
Toluene	19.56	98	20.84	104	6	66 - 134
Xylenes	19.42	97	21.00	105	8	73 - 127


George Havalias
Laboratory Director




LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name:
Method: EPA 8020 (BTEX)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 76344
Project No.:
AA Project No.: A135054-85
Date Analyzed: 09/15/98
Date Reported: 09/17/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Benzene	20.58	103	20.97	105	2	65 - 135
Ethylbenzene	20.48	102	22.51	113	10	77 - 123
Toluene	24.96	125	22.17	111	12	66 - 134
Xylenes	20.70	104	22.95	115	10	73 - 127


George Havalias
Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name:
Method: EPA 8015M (Gasoline)
Sample ID: Matrix Spike
Concentration: 500 ug/L

AA ID No.: 76344
Project No.:
AA Project No.: A135054-85
Date Analyzed: 09/15/98
Date Reported: 09/17/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	440	88	470	94	7	59 - 149


George Havalias
Laboratory Director




LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name:
Method: EPA 8015M (Gasoline)
Sample ID: Matrix Spike
Concentration: 500 ug/L

AA ID No.: 76335
Project No.:
AA Project No.: A135054-85
Date Analyzed: 09/16/98
Date Reported: 09/17/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	470	94	480	96	2	59 - 149


George Havalias
Laboratory Director



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547

(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

DATE: 9-10-98

PAGE 1 OF 4

AA Client THRIFTY OIL CO.						Phone 662/921-3580		Sampler's Name SERBAN P.		
Project Manager JEFF SURYAKUSUMA						P.O. No.		Sampler's Signature <i>[Signature]</i>		
Project Name QXIS						Project No.		Project Manager's Signature		
Job Name and Address 2504 CASTRO VALLEY Blvd - CASTRO VALLEY 94546						ANALYSIS REQUIRED				
						Detection Limits				Test Requirements
						Test Name				
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	TDH	BTED	MTBE		
76330	RS-9	9-10-98	15:00	WATER	3	X	X	X		
76331	RE-1		15:05	↑	3	X	X	X		
76332	RE-2		15:10		3	X	X	X		
76333	RE-6		15:15		3	X	X	X		
76334	PW-1		15:20		3	X	X	X		
76335	PW-2		15:25		3	X	X	X		
76336	RE-7		15:30		3	X	X	X		
76337	RE-5		15:40		3	X	X	X		
76338	RE-4		15:45		3	X	X	X		
76339	RE-3		15:50		3	X	X	X		
76340	RS-8		16:00		3	X	X	X		
76341	RS-11		16:10		3	X	X	X		
76342	RS-10		16:20		3	X	X	X		
76343	TRIP BLANK		7:30		2	X	X			
SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB						Relinquished by: <i>[Signature]</i>		Date 9.14.98	Time 17:00	Received by: CA-OVERNIGHT
Samples Intact Yes _____ No _____						Relinquished by: CA-OVERNIGHT		Date 9.14.98	Time 17:30	Received by: _____
Samples Properly Cooled Yes _____ No _____						Relinquished by: _____		Date 9-15-98	Time 09:00	Received by: <i>[Signature]</i>
Samples Accepted Yes _____ No _____						Relinquished by: _____		Date _____	Time _____	Received by: _____
If Not Why: _____						Relinquished by: _____		Date _____	Time _____	Received by: _____
AA Project No. A135054-85						Relinquished by: _____		Date _____	Time _____	Received by: _____



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #54
Sample Matrix: Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054-84
Date Received: 07/13/98
Date Reported: 07/22/98
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
73488	RS-9	07/08/98	07/15/98	<50	50
73489	RE-1	07/08/98	07/15/98	<50	50
73490	RE-2	07/08/98	07/15/98	<50	50
73491	RE-6	07/08/98	07/15/98	300	50
73492	PW-1	07/08/98	07/15/98	<50	50
73493	PW-2	07/08/98	07/15/98	<50	50
73494	RE-7	07/08/98	07/15/98	1300	50
73495	RE-5	07/08/98	07/15/98	<50	50
73496	RE-4	07/08/98	07/15/98	650	50
73497	RE-3	07/08/98	07/15/98	<50	50
73498	RS-8	07/08/98	07/15/98	<50	50
73499	RS-11	07/08/98	07/15/98	<50	50
73500	RS-10	07/08/98	07/15/98	<50	50
73501	Trip Blank	07/08/98	07/15/98	<50	50

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.


George Havallas
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #54
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-84
Date Received: 07/13/98
Date Reported: 07/22/98
Units: ug/L

Date Sampled:	07/08/98	07/08/98	07/08/98	07/08/98	
Date Analyzed:	07/15/98	07/15/98	07/15/98	07/15/98	
AA ID No.:	73488	73489	73490	73491	
Client ID No.:	RS-9	RE-1	RE-2	RE-6	MRL
<u>Compounds:</u>					
Benzene	<0.3	<0.3	<0.3	<0.3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	<0.5	1.0	0.5


George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 2

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #54
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-84
Date Received: 07/13/98
Date Reported: 07/22/98
Units: ug/L

Date Sampled:	07/08/98	07/08/98	07/08/98	07/08/98	
Date Analyzed:	07/15/98	07/15/98	07/15/98	07/15/98	
AA ID No.:	73492	73493	73494	73495	
Client ID No.:	PW-1	PW-2	RE-7	RE-5	MRL
<u>Compounds:</u>					
Benzene	<0.3	<0.3	8.7	<0.3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	<0.5	<0.5	0.5


George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 3

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #54
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-84
Date Received: 07/13/98
Date Reported: 07/22/98
Units: ug/L

Date Sampled:	07/08/98	07/08/98	07/08/98	07/08/98	
Date Analyzed:	07/15/98	07/15/98	07/15/98	07/15/98	
AA ID No.:	73496	73497	73498	73499	
Client ID No.:	RE-4	RE-3	RS-8	RS-11	MRL
<u>Compounds:</u>					
Benzene	<0.3	<0.3	<0.3	<0.3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	<0.5	<0.5	0.5

George Havallas
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 4

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #54
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-84
Date Received: 07/13/98
Date Reported: 07/22/98
Units: ug/L

Date Sampled:	07/08/98	07/08/98	
Date Analyzed:	07/15/98	07/15/98	
AA ID No.:	73500	73501	
Client ID No.:	RS-10	Trip Blank	MRL
<u>Compounds:</u>			
Benzene	<0.3	<0.3	0.3
Ethylbenzene	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	0.5

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.


George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #54
Sample Matrix: Water
Method: MTBE (EPA 8020)

AA Project No.: A135054-84
Date Received: 07/13/98
Date Reported: 07/22/98
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
73488	RS-9	07/08/98	07/15/98	<5	5
73489	RE-1	07/08/98	07/15/98	<5	5
73490	RE-2	07/08/98	07/15/98	15	5
73491	RE-6	07/08/98	07/15/98	35	5
73492	PW-1	07/08/98	07/15/98	<5	5
73493	PW-2	07/08/98	07/15/98	<5	5
73494	RE-7	07/08/98	07/15/98	350	5
73495	RE-5	07/08/98	07/15/98	<5	5
73496	RE-4	07/08/98	07/15/98	1800	5
73497	RE-3	07/08/98	07/15/98	<5	5
73498	RS-8	07/08/98	07/15/98	97	5
73499	RS-11	07/08/98	07/15/98	<5	5
73500	RS-10	07/08/98	07/15/98	<5	5

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

George Havalias
Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS #54
Method: EPA 8020 (BTEX)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 73488
Project No.: N/A
AA Project No.: A135054-84
Date Analyzed: 07/15/98
Date Reported: 07/22/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Benzene	20.1	100	19.64	98	2	65 - 135
Ethylbenzene	19.8	99	19.13	96	3	77 - 123
Toluene	20.1	101	19.75	99	2	66 - 134
Xylenes	19.9	100	19.26	96	4	73 - 127


George Havallas
Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS #54
Method: EPA 8015M (Gasoline)
Sample ID: Matrix Spike
Concentration: 500 ug/L

AA ID No.: 73488
Project No.: N/A
AA Project No.: A135054-84
Date Analyzed: 07/15/98
Date Reported: 07/22/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	520	104	510	102	2	59 - 149

George Havalias
Laboratory Director



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547

(818) 998-5548

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1-800-533-8378

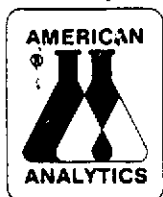
FAX (818) 998-7258

DATE 7-07-98

PAGE 1 OF 4

AA Client <u>THRIFTY OIL CO.</u>						Phone <u>(562) 921-3581</u>		Sampler's Name <u>SERBANY P.</u>											
Project Manager <u>JEFF SURYARUSUMA</u>						P.O. No.		Sampler's Signature <u>[Signature]</u>											
Project Name <u>Q.W.S.</u>						Project No.		Project Manager's Signature											
Job Name and Address <u>2504 CASTRO VALLEY Blvd -</u> <u>CASTRO VALLEY CA. 94546 -</u>						ANALYSIS REQUIRED													
						Detection Limits													
						Test Name													
						TPH BTX MYBE													
						Test Requirements													
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers														
73488	RS-9	7-08-98	15:00	WATER	3	X	X	X											
73489	RE-1		15:10		3	X	X	X											
73490	RE-2		15:15		3	X	X	X											
73491	RE-6		15:20		3	X	X	X											
73492	PW-1		15:25		3	X	X	X											
73493	PW-2		15:30		3	X	X	X											
73494	RE-7		15:35		3	X	X	X											
73495	RE-5		15:40		3	X	X	X											
73496	RE-4		15:45		3	X	X	X											
73497	RE-3		15:50		3	X	X	X											
73498	RS-8		16:00		3	X	X	X											
73499	RS-11		16:10		3	X	X	X											
73500	RS-10		16:20		3	X	X	X											
73501	TRIP BLANK		7:30		2	X	X												
SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB						Relinquished by: <u>[Signature]</u>			Date <u>7-13-98</u>	Time <u>17:00</u>	Received by: <u>CA-OVERNIGHT</u>								
Samples Intact Yes <u>/</u> No <u>/</u>						Relinquished by: <u>CA-OVERNIGHT</u>			Date <u>7-13-98</u>	Time <u>17:30</u>	Received by: <u>[Signature]</u>								
Samples Properly Cooled Yes <u>/</u> No <u>/</u>						Relinquished by: <u>[Signature]</u>			Date <u>7-14-98</u>	Time <u>0000</u>	Received by: <u>[Signature]</u>								
Samples Accepted Yes <u>/</u> No <u>/</u>						Relinquished by: <u>[Signature]</u>			Date <u>7-14-98</u>	Time <u>0000</u>	Received by: <u>[Signature]</u>								
If Not Why: <u>[Signature]</u>						Relinquished by: <u>[Signature]</u>			Date <u>7-14-98</u>	Time <u>0000</u>	Received by: <u>[Signature]</u>								
AA Project No. <u>A135054-84</u>						Relinquished by: <u>[Signature]</u>			Date <u>7-14-98</u>	Time <u>0000</u>	Received by: <u>[Signature]</u>								

APPENDIX B



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054-76
Date Received: 03/18/98
Date Reported: 04/03/98
Units: ug/L

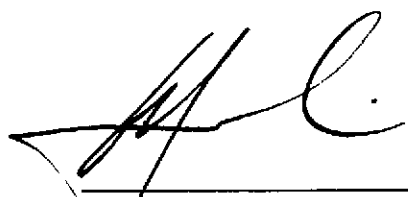
AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
68652	Influent	03/17/98	03/19/98	19000	50
68653	Effluent	03/17/98	03/19/98	<50	50
68654	Trip Blank ✓	03/17/98	03/19/98	<50 ✓	50

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

NOTES:

The reported concentration of gasoline range organics in sample 68652(Influent) is mainly from the contribution of a single early eluting component.


George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-76
Date Received: 03/18/98
Date Reported: 04/03/98
Units: ug/L

Date Sampled:	03/17/98	03/17/98	03/17/98	
Date Analyzed:	03/19/98	03/19/98	03/19/98	
AA ID No.:	68652	68653	68654	
Client ID No.:	Influent	Effluent	Trip Blank	MRL
<u>Compounds:</u>				
Benzene	<0.3	<0.3	<0.3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	<0.5	0.5

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

George Havalias
Laboratory Director




LABORATORY QA/QC REPORT

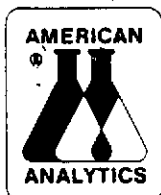
Page 1

Client: Thrifty Oil Company
Project Name: SS #054
Method: EPA 8020 (BTEX)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 68653
Project No.: N/A
AA Project No.: A135054-76
Date Analyzed: 03/19/98
Date Reported: 04/02/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Benzene	24.57	123	24.57	123	0	65 - 135
Ethylbenzene	19.52	98	19.75	99	1	77 - 123
Toluene	19.18	96	19.21	96	0	66 - 134
Xylenes	18.85	94	19.05	95	1	73 - 127


George Havalias
Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS #054
Method: EPA 8015M (Gasoline)
Sample ID: Matrix Spike
Concentration: 500 ug/L

AA ID No.: 68653
Project No.: N/A
AA Project No.: A135054-76
Date Analyzed: 03/19/98
Date Reported: 04/02/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	480	96	470	94	2	59 - 149


George Havalias
Laboratory Director

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

DATE: 03.17.98.

(818) 998-5547

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1-800-533-TEST

1-800-533-8378

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PAGE 1 OF 4

AA Client THRIFTY OIL COMPANY		Phone (562) 921-3581		Sampler's Name SERBAN P.	
Project Manager JEFF SURYAKUSUMA		P.O. No.		Sampler's Signature <i>[Signature]</i>	
Project Name Monthly water samples -		Project No.		Project Manager's Signature	
Job Name and Address 2504 CASTRO VALLEY Blvd - CASTRO VALLEY 94546		<div>ANALYSIS REQUIRED</div> <div> <div>Detection Limits</div> <div>Test Name</div> </div> <div> <div>TPH</div> <div>BTEX</div> </div>			
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers
68652	INFLUENT	03.17.98	11:00	WATER	2
68653	EFFLUENT	03.17.98	11:05	WATER	2
68654	TRIP BLANK	03.17.98	7:30	WATER	2
<div>SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB</div> <div> <div>Samples Intact</div> <div>Samples Properly Cooled</div> <div>Samples Accepted</div> <div>If Not Why:</div> </div> <div> <div>AA Project No.</div> </div>					
Relinquished by:		Date	Time	Received by:	
Relinquished by:		Date	Time	Received by:	
Relinquished by:		Date	Time	Received by:	
Relinquished by:		Date	Time	Received by:	



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054-78
Date Received: 04/16/98
Date Reported: 05/14/98
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
70028	Influent	04/15/98	04/21/98	3900	50
70029	Effluent	04/15/98	04/21/98	<50	50
70030	Trip Blank	04/15/98	04/21/98	<50	50

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

NOTES:

The reported concentration of gasoline range organics in sample 70028(Influent) is mainly from the contribution of a single early eluting component.

George Havalias
Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS #054
Method: EPA 8015M (Gasoline)
Sample ID: Matrix Spike
Concentration: 500 ug/L

AA ID No.: 70030
Project No.: N/A
AA Project No.: A135054-78
Date Analyzed: 04/21/98
Date Reported: 05/14/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	370	74	360	72	3	59 - 149

George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-78
Date Received: 04/16/98
Date Reported: 05/14/98
Units: ug/L

Date Sampled:	04/15/98	04/15/98	04/15/98	
Date Analyzed:	04/21/98	04/21/98	04/21/98	
AA ID No.:	70028	70029	70030	
Client ID No.:	Influent	Effluent	Trip Blank	MRL
<u>Compounds:</u>				
Benzene	<0.3	<0.3	<0.3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	<0.5	0.5

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

George Havalias
Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS #054
Method: EPA 8020 (BTEX)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 70030
Project No.: N/A
AA Project No.: A135054-78
Date Analyzed: 04/21/98
Date Reported: 05/14/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Benzene	19.58	98	18.8	94	4	65 - 135
Ethylbenzene	20.67	103	18.6	93	10	77 - 123
Toluene	19.46	97	18.1	90	7	66 - 134
Xylenes	19.75	99	18.9	95	4	73 - 127


George Havalias
Laboratory Director

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547

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1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

DATE: 04-15-98

PAGE 1 OF 6

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LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #54
Sample Matrix: Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054-81
Date Received: 05/27/98
Date Reported: 06/08/98
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
71548	Effluent	05/26/98	05/28/98	<50	50
71549	Influent	05/26/98	05/28/98	1000	50
71550	Trip Blank	05/26/98	05/28/98	<50	50

MRL: Method Reporting Limit

<. Not detected at or above the value of the concentration indicated.


George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #54
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-81
Date Received: 05/27/98
Date Reported: 06/09/98
Units: ug/L

Date Sampled:	05/26/98	05/26/98	05/26/98	
Date Analyzed:	05/28/98	05/28/98	05/28/98	
AA ID No.:	71548	71549	71550	
Client ID No.:	Effluent	Influent	Trip Blank	MRL
<u>Compounds:</u>				
Benzene	<0.3	6.7	<0.3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	0.74	<0.3	0.3
Xylenes	<0.5	11	<0.5	0.5

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

George Havalias
Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name:
Method: EPA 8020 (BTEX)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 71458
Project No.:
AA Project No.: A135054-81
Date Analyzed: 05/28/98
Date Reported: 06/08/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Benzene	19.89	99	20.24	101	2	65 - 135
Ethylbenzene	20.36	102	20.36	102	0	77 - 123
Toluene	20.77	104	20.81	104	0	66 - 134
Xylenes	21.02	105	21.02	105	0	73 - 127


George Havallas
Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS #54
Method: EPA 8015M (Gasoline)
Sample ID: Matrix Spike
Concentration: 500 ug/L

AA ID No.: 71458
Project No.: N/A
AA Project No.: A135054-81
Date Analyzed: 05/28/98
Date Reported: 06/09/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	510	102	540	108	6	59 - 149



George Havallas
Laboratory Director

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

DATE: 05.26.98

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(818) 998-5548

1-800-533-TEST

1-800-533-8378

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PAGE 1 OF 4

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DISTRIBUTION: White - Laboratory, Canary - Laboratory, Pink - Account Executive, Gold - Client



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054-82
Date Received: 06/16/98
Date Reported: 06/24/98
Units: ug/L


AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
72259	Influent	06/11/98	06/17/98	880	50
72260	Effluent	06/11/98	06/17/98	500	50
72261	Trip Blank	06/11/98	06/17/98	<50	50

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

NOTES:

The reported concentration of gasoline range organics in samples 72259(Influent) and 72260(Effluent) is mainly from early eluting components.


George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-82
Date Received: 06/16/98
Date Reported: 06/23/98
Units: ug/L

Date Sampled:	06/11/98	06/11/98	06/11/98	
Date Analyzed:	06/17/98	06/17/98	06/17/98	
AA ID No.:	72259	72260	72261	
Client ID No.:	Influent	Effluent	Trip Blank	MRL
<u>Compounds:</u>				
Benzene	2.0	0.65	<0.3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	<0.3	0.3
Xylenes	<0.5	<0.5	<0.5	0.5

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

George Havalias
Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS #054
Method: EPA 8020 (BTEX)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 72246
Project No.: N/A
AA Project No.: A135054-82
Date Analyzed: 06/17/98
Date Reported: 06/23/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Benzene	19.20	96	19.60	98	2	65 - 135
Ethylbenzene	19.02	95	18.79	94	1	77 - 123
Toluene	19.78	99	19.49	97	2	66 - 134
Xylenes	19.03	95	18.81	94	1	73 - 127


George Havalias
Laboratory Director



LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS #054
Method: EPA 8015M (Gasoline)
Sample ID: Matrix Spike
Concentration: 500 ug/L

AA ID No.: 72246
Project No.: N/A
AA Project No.: A135054-82
Date Analyzed: 06/17/98
Date Reported: 06/23/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	520	104	520	104	0	59 - 149

George Havalias
Laboratory Director

DISTRIBUTION: White - Laboratory, Canary - Laboratory, Pink - Account Executive, Gold - Client



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #54
Sample Matrix: Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054-83
Date Received: 07/08/98
Date Reported: 09/16/98
Units: ug/L

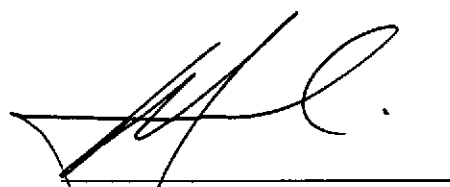
AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
73181	Effluent	07/07/98	07/09/98	610	50
73182	Influent	07/07/98	07/09/98	2100	50
73183	Trip Blank	07/07/98	07/09/98	<50	50

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

NOTES:

The reported concentration of gasoline range organics in sample 73181 (Effluent) is mainly from the contribution of a single component (MTBE).



George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1


Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #54
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-83
Date Received: 07/08/98
Date Reported: 07/13/98
Units: ug/L

Date Sampled:	07/07/98	07/07/98	07/07/98	
Date Analyzed:	07/09/98	07/09/98	07/09/98	
AA ID No.:	73181	73182	73183	
Client ID No.:	Effluent	Influent	Trip Blank	MRL
<u>Compounds:</u>				
Benzene	<0.3	0.84	<0.3	0.3
Ethylbenzene	<0.3	0.68	<0.3	0.3
Toluene	<0.3	2.0	<0.3	0.3
Xylenes	<0.5	390	<0.5	0.5

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.



George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #54
Sample Matrix: Water
Method: MTBE (EPA 8020)

AA Project No.: A135054-83
Date Received: 07/08/98
Date Reported: 09/16/98
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
73181	Effluent	07/07/98	07/10/98	1400	20
73182	Influent	07/07/98	07/10/98	4000	20
73183	Trip Blank	07/07/98	07/10/98	<20	20

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.


George Havalias
Laboratory Director




LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS #54
Method: EPA 8015M (Gasoline)
Sample ID: Matrix Spike
Concentration: 500 ug/L

AA ID No.: 73183
Project No.: N/A
AA Project No.: A135054-83
Date Analyzed: 07/09/98
Date Reported: 09/14/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	580	116	540	108	7	59 - 149



George Havalias
Laboratory Director




LABORATORY QA/QC REPORT

Page 1

Client: Thrifty Oil Company
Project Name: SS #54
Method: EPA 8020 (BTEX)
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 73183
Project No.: N/A
AA Project No.: A135054-83
Date Analyzed: 07/09/98
Date Reported: 09/14/98

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Benzene	19.74	99	19.58	98	1	65 - 135
Ethylbenzene	20.44	102	19.42	97	5	77 - 123
Toluene	19.64	98	19.58	98	0	66 - 134
Xylenes	20.34	102	19.62	98	4	73 - 127


George Havalias
Laboratory Director

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: EPA 8015M (Gasoline)

AA Project No.: A135054-86
Date Received: 09/30/98
Date Reported: 10/03/98
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
76932	Effluent	09/28/98	09/30/98	670	50
76933	Influent	09/28/98	09/30/98	5100	50
76934	Trip Blank	09/28/98	09/30/98	<50	50

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

George Havallas
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SSI #054
Sample Matrix: Water
Method: EPA 8020 (BTEX)

AA Project No.: A135054-86
Date Received: 09/30/98
Date Reported: 10/03/98
Units: ug/L

Date Sampled:	09/28/98	09/28/98	09/28/98	
Date Analyzed:	09/30/98	09/30/98	09/30/98	
AA ID No.:	76932	76933	76934	
Client ID No.:	Effluent	Influent	Trip Blank	MRL
<u>Compounds:</u>				
Benzene	<0.3	2.0	0.38	0.3
Ethylbenzene	<0.3	<0.3	<0.3	0.3
Toluene	<0.3	<0.3	<0.3	0.3
Xylenes	<0.5	18	<0.5	0.5

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

George Havallas
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: MTBE (EPA 8020)

AA Project No.: A135054-86
Date Received: 09/30/98
Date Reported: 10/03/98
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
76932	Effluent	09/28/98	09/30/98	1700	5
76933	Influent	09/28/98	09/30/98	10000	5

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

George Havallas
Laboratory Director



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

(818) 998-5547

(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

DATE: 9-28-98

PAGE 1 OF 4

AA Client <u>THRIFTY OIL CO.</u>						Phone <u>662/921-3581</u>		Sampler's Name <u>SERBAN D</u>		
Project Manager <u>JEFF SURYARUSUMA</u>						P.O. No.		Sampler's Signature <u>[Signature]</u>		
Project Name <u>MONTHLY SAMPLING</u>						Project No.		Project Manager's Signature		
Job Name and Address <u>2504 CASTRO VALLEY Blvd - CASTRO VALLEY 94546</u>						ANALYSIS REQUIRED				
						Detection Limits				Test Requirements
						Test Name				
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	TPH	BTEX	MTBE		
76932	EFFLUENT	9.28.98	8:00	WATER	3	X	X	X		
76933	INFLUENT	9.28.98	8:05	WATER	3	X	X	X		
76934	TRIP BLANK	9.28.98	7:30	WATER	2	X	X			
SAMPLE INTEGRITY TO BE FILLED IN BY RECEIVING LAB						Relinquished by: <u>[Signature]</u>		Date <u>9.28.98</u>	Time <u>17:00</u>	Received by: <u>CA-OVERNIGHT</u>
Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Relinquished by: <u>CA-OVERNIGHT</u>		Date <u>9.28.98</u>	Time <u>17:30</u>	Received by:
Samples Properly Cooled Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Relinquished by:		Date <u>9.30.98</u>	Time <u>9:30</u>	Received by: <u>[Signature]</u>
Samples Accepted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Relinquished by:		Date	Time	Received by:
If Not Why: _____										
AA Project No. <u>A135054-86</u>										

APPENDIX C



LABORATORY ANALYSIS RESULTS

Page 1

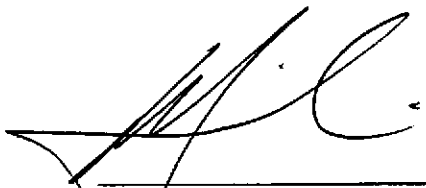
Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #54 ✓
Sample Matrix: Vapor
Method: NIOSH 1501 (Benzene)

AA Project No.: A135054-83 ✓
Date Received: 07/08/98
Date Reported: 09/14/98
Units: ug

AA I.D. No.	Client I.D. No.	Date Sampled	Date Extracted	Date Analyzed	Results	MRL
73184	Effluent	07/07/98	08/19/98	08/19/98	<0.1	0.1
73185	Trip Blank	07/07/98	08/19/98	08/19/98	<0.1	0.1

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.


George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Vapor
Method: NIOSH 1501 (Benzene)

AA Project No.: A135054-80
Date Received: 04/27/98
Date Reported: 05/19/98
Units: ug

AA I.D. No.	Client I.D. No.	Date Sampled	Date Extracted	Date Analyzed	Results	MRL
70545	Effluent	04/27/98	05/11/98	05/11/98	<0.1	0.1
70546	Trip Blank	04/27/98	05/11/98	05/11/98	<0.1	0.1

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Vapor
Method: NIOSH 1501 (Benzene)

AA Project No.: A135054-79
Date Received: 04/16/98
Date Reported: 05/14/98
Units: ug

AA I.D. No.	Client I.D. No.	Date Sampled	Date Extracted	Date Analyzed	Results	MRL
70031	Effluent	04/15/98	05/11/98	05/11/98	<0.1	0.1
70032	Trip Blank	04/15/98	05/11/98	05/11/98	<0.1	0.1

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.


George Havalias
Laboratory Director

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

DATE: 04-15-98

PAGE 1 OF 4

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(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

[illegible]



LABORATORY ANALYSIS RESULTS

Page 1

Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Water
Method: NIOSH 1501 (Benzene)

AA Project No.: A135054-77
Date Received: 04/01/98
Date Reported: 04/13/98
Units: ug

AA I.D. No.	Client I.D. No.	Date Sampled	Date Extracted	Date Analyzed	Results	MRL
69143	Effluent	03/31/98	04/01/98	04/01/98	<0.1	0.1
69144	Trip Blank	03/31/98	04/01/98	04/01/98	✓ <0.1	0.1

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.

George Havalias
Laboratory Director

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

DATE: 03-31-48

(818) 998-5547

(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

PAGE 1 OF 4

AA Client THRIFTY OIL CO.		Phone (562) 921-3185		Sampler's Name SERBAN P.							
Project Manager JEFF SURYAKUSUMA		P.O. No.		Sampler's Signature <i>[Signature]</i>							
Project Name AIR SAMPLE		Project No.		Project Manager's Signature							
Job Name and Address 2504 CASTRO VALLEY CASTRO VALLEY Blvd 94546		ANALYSIS REQUIRED		Test Requirements							
		Detection Limits									
		Test Name									
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers						
69143	EFFLUENT	03.31.98	10:00	VAPOR	1						
69144	TRIP BLANK	03.31.98	10:00	AIR	1						
						ANALYSIS REQUIRED					
SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB						Relinquished by: <i>[Signature]</i>		Date 03.31.98	Time 11:00	Received by: CA. OVERNIGHT	
Samples Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Relinquished by: CA. OVERNIGHT		Date 03.31.98	Time 11:30	Received by: <i>[Signature]</i>	
Samples Properly Cooled Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Relinquished by: <i>[Signature]</i>		Date 4/1/98	Time 10:00	Received by: <i>[Signature]</i>	
Samples Accepted Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Relinquished by: <i>[Signature]</i>		Date 4/1/98	Time 10:00	Received by: <i>[Signature]</i>	
If Not Why: _____						Relinquished by: <i>[Signature]</i>		Date 4/1/98	Time 10:00	Received by: <i>[Signature]</i>	
AA Project No. A135054-77						Relinquished by: <i>[Signature]</i>		Date 4/1/98	Time 10:00	Received by: <i>[Signature]</i>	

DISTRIBUTION: White - Laboratory, Canary - Laboratory, Pink - Account Executive, Gold - Client



LABORATORY ANALYSIS RESULTS

Page 1


Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054
Sample Matrix: Vapor
Method: NIOSH 1501 (Benzene)

AA Project No.: A135054-75
Date Received: 03/18/98
Date Reported: 04/03/98
Units: ug

AA I.D. No.	Client I.D. No.	Date Sampled	Date Extracted	Date Analyzed	Results	MRL
68650	Effluent	03/17/98	04/01/98	04/01/98	<0.1	0.1
68651	Trip Blank	03/17/98	04/01/98	04/01/98	✓ <0.1	0.1

MRL: Method Reporting Limit

<: Not detected at or above the value of the concentration indicated.


George Havallas
Laboratory Director

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

DATE: 03-17-98

PAGE 1 OF 4

(818) 998-5547

(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

[illegible]

DISTRIBUTION: White - Laboratory, Canary - Laboratory, Pink - Account Executive, Gold - Client

APPENDIX D

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD															
WELLS	WATER							WELLS	VAPORS						
ON				REG			REG	ON	REG 1		REG 3		REG 6	REG 7	
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	Am	
					HOURS	#	14612	
					ENGINE RPM	RPM	1780	
					ENGINE VACUUM	IN HG	13	
					TK REC TEMP	F	90	
					AIR TEMP	F	72	
					AIR FLOW	CFM	15	
					VAPOR FLOW	CFM	11	
					FUEL FLOW	CFM/H	60	
					WELL VACUUM	IN H2O	13"	
					GAS METER		%10	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GALLONS	11832	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: AIR AND WATER SAMPLING - (2W)

SERVICE TECHNICIAN P. J. [Signature] DATE 9-28-98 THRIFTY OIL CO # 054

**EARTH MANAGEMENT CO.**

Environmental Remediation

FIELD STATUS REPORT**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

054

MAINFOLD															
WELLS		WATER						WELLS		VAPORS					
ON				RE4			RE7	ON	RE1		RE3		RE6	RE2	
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	14542	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	13	
					TK REC TEMP	F	90	
					AIR TEMP	F	75	
					AIR FLOW	CFM	14	
					VAPOR FLOW	CFM	12	
					FUEL FLOW	CFM/H	70	
					WELL VACUUM	IN H2O	13	
					GAS METER		% 50	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GALLONS	11586	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: WATER IS VERY SLOW FROM RE-4 and RE7.

SERVICE TECHNICAN D. J. [Signature] DATE 9-21-99 THRIFTY OIL CO # 054

13415 Carmenita Road/P.O. Box 2129, Santa Fe Springs, CA 90670

OFFICE RECORD



THRIFTY OIL CO. SS #054

2504 CASTRO VALLEY BLVD.

CASTRO VALLEY, CA 94546

DATE: 9-10-98

PROJECT STATUS REPORT

F R E Q .	M O N I T O R I N G				O D O R S			F R E E		W E L L S C O N N E C T E D T O S Y S T E M (W)							
	O B S E R V A T I O N W E L L S				(S=SLIGHT)			P R O D U C T		C O N N E C T		I N T E G R I T Y		V A P O R		W A T E R	
	N O .	D T W	D T P	P T	Y E S	N O	S	Y E S	N O	Y E S	N O	O K	N O	O N	O F F	O N	O F F
M	PW-1	6.35				X			X	X	-						
M	PW-2	5.15				X			X	X	-						
M	RE-1	6.05				X			X	X	-			X			
M	RE-2	4.93				X			X	X	-			X			
M	RE-3	4.95				X			X	X	-			X			
M	RE-4	4.60				X			X	X	-					X	
M	RE-5	6.77				X			X	X	-			X			
M	RE-6	5.90				X			X	X	-			X			
M	RE-7	7.04				X			X	X	-			X		X	
M	RS-8	12.95				X			X	-	X						
M	RS-9	2.72				X			X	-	X						
M	RS-10	7.55				X			X		X						
M	RS-11	9.48				X			X		X						

S A V E S Y S T E M

W E E K L Y

PARAMETER	U/M	DATA	PARAMETER	U/M	DATA
TIME	AM/PM		AIR FLOW	C F M	
WORKING	YES/NO		VAPOR FLOW	C F M	
RESTARTED	YES/NO		FUEL FLOW	C F M/H	
HOURS	#		WELL VACUUM	I N H ₂ O	
ENGINE ROT.	RPM		L P G T A N K S	%	#1:
ENGINE VACUUM	I N H G		GAS METER READING	-	N/A
TANK VACUUM	I N H G		WATER FLOWMETER	GALL.	

EXHAUST (By others)					
INLET TO ENGINE					

MAINTENANCE	ES/100/400/800		FOR SPECIFIC OPERATIONS SEE FIELD RECORD
-------------	----------------	--	--

W A T E R S A M P L I N G - C H E C K () W H E N D O N E

EFFLUENT	INFLUENT	WELLS
()	()	() Q.-SEE C.CUST.

REMARKS:	
----------	--

FREE PRODUCT REMOVED: APPROX. GALLONS	WATER REMOVED: APPROX. 200 GALLONS
---------------------------------------	------------------------------------

DATA RECORDED BY: <u>Bob Jones</u>	INPUT BY: AJB 02/05/97
------------------------------------	------------------------



054

DATE: 9-14-98

START UP / SHUT DOWN REPORT

STATION # 054

SYSTEM TYPE : RSI (VE + GWT)

START UP REPORT:

System start up after water pump was install -

SHUT DOWN REPORT:

SIGNATURE: _____

[Signature]

**EARTH MANAGEMENT CO.**

Environmental Remediation

THRIFTY OIL CO. SS #054

2504 CASTRO VALLEY BLVD.

CASTRO VALLEY, CA 94546

PROJECT STATUS REPORT

DATE: 9-10-98

FREQ.	MONITORING				ODORS			FREE		WELLS CONNECTED TO SYSTEM (W)							
	OBSERVATION WELLS				(S=SLIGHT)			PRODUCT		CONNECT		INTEGRITY		VAPOR		WATER	
	NO.	DTW	DTP	PT	YES	NO	S	YES	NO	YES	NO	OK	NO	ON	OFF	ON	OFF
M	PW-1	6.35				X			X	X	-						
M	PW-2	5.15				X			X	X	-						
M	RE-1	6.05				X			X	X	-			X			
M	RE-2	4.93				X			X	X	-						
M	RE-3	4.95				X			X	X	-			X			
M	RE-4	4.60				X			X	X	-					X	
M	RE-5	6.77				X			X	X	-						
M	RE-6	5.90				X			X	X	-			X			
M	RE-7	7.04				X			X	X	-			X		X	
M	RS-8	12.95				X			X	-	X						
M	RS-9	2.72				X			X	-	X						
M	RS-10	7.55				X			X		X						
M	RS-11	9.48				X			X		X						

SAVE SYSTEM

WEEKLY

PARAMETER	U/M	DATA	PARAMETER	U/M	DATA
TIME	AM/PM		AIR FLOW	C F M	
WORKING	YES/NO		VAPOR FLOW	C F M	
RESTARTED	YES/NO		FUEL FLOW	C F M/H	
HOURS	#		WELL VACUUM	IN H2O	
ENGINE ROT.	RPM		L P G TANKS	%	#1:
ENGINE VACUUM	IN HG		GAS METER READING	-	N/A
TANK VACUUM	IN HG		WATER FLOWMETER	GALL.	

EXHAUST
(By others)

INLET TO ENGINE

MAINTENANCE

ES/100/400/800

FOR SPECIFIC OPERATIONS SEE FIELD RECORD

WATER SAMPLING - CHECK () WHEN DONE

EFFLUENT

INFLUENT

WELLS

()

()

()

() Q.-SEE C.CUST.

REMARKS:

FREE PRODUCT REMOVED: APPROX. — GALLONS

WATER REMOVED: APPROX. 200 GALLONSDATA RECORDED BY: Paul & Co.INPUT BY: AJB 02/05/97



DATE: 9-03-98

START UP / SHUT DOWN REPORT
STATION # 054
SYSTEM TYPE : RIS -

START UP REPORT:

SHUT DOWN REPORT:

System shut down for repair -

SIGNATURE: _____

R.D.H.



DATE: 8.25.98

START UP / SHUT DOWN REPORT
STATION # 054
SYSTEM TYPE R.S.I.

START UP REPORT:

SHUT DOWN REPORT:

System shut down because water pumps
need replace

SIGNATURE: RATG



DATE: 8-18-1998

START UP / SHUT DOWN REPORT
STATION # 054
SYSTEM TYPE :

START UP REPORT:

SHUT DOWN REPORT:

System shut down for replace carbon —

SIGNATURE: _____

[Signature]

054



DATE: 8-10-98

START UP / SHUT DOWN REPORT
STATION # 054
SYSTEM TYPE :

START UP REPORT:

SHUT DOWN REPORT:

System shut down for carbon change =

SIGNATURE: _____

[Signature]



054

DATE: 8-04-98

START UP / SHUT DOWN REPORT
STATION # 054
SYSTEM TYPE : RSI

START UP REPORT:

SHUT DOWN REPORT:

System shut down for carbon change --

SIGNATURE: _____

R. D. Oyer

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD															
WELLS	WATER							WELLS	VAPORS						
ON				REL1			RE7	ON	RE1		RE3		RE6	RE7	
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	16480	
					ENGINE RPM	RPM	1700	
					ENGINE VACUUM	IN HG	10	
					TK REC TEMP	F	90	
					AIR TEMP	F	78	
					AIR FLOW	CFM	15	
					VAPOR FLOW	CFM	16	
					FUEL FLOW. <input checked="" type="checkbox"/>	CFM/H	70	
					WELL VACUUM	IN H2O	13	
					GAS METER		% 55	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GALLONS	11214	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: System was shut down because water pump is leaking -

SERVICE TECHNICAN P. D. Jones DATE 7-15-98 THRIFTY OIL CO # 054



DATE: 7-29-ef

START UP / SHUT DOWN REPORT

STATION # 054

SYSTEM TYPE : 235

START UP REPORT:

SHUT DOWN REPORT:

System shut down for carbon change

SIGNATURE: _____

[Signature]



054

MAINTENANCE : REPAIR REPORT

A) SS #: 054 SYSTEM TYPE: RIS-
B) DEFICIENCY DESCRIPTION :

C) NAME OF REPORTING PARTY AND DATE:
D) DATE SCHEDULED : 7-31-89

1) NAME:
2) FINDINGS:

DATE/TIME

3) HAS THE JOB BEEN COMPLETED? YES/NO ✓
IF "NO", PLEASE DESCRIBE WHY AND WHAT YOU NEED
TO FINISH:

4) POST REPAIR TEST RESULTS:

5) THE CAUSE OF THE DEFICIENCY:
WATER PUMP FOR RECIRC. IS LEAKING, NEEDS
REPLACE -

BRIEF INSTRUCTIONS FOR PREVENTIVE MAINTENANCE
TO THE TECHNICIAN:

6) OTHER:



054

DATE: 7-21-98

START UP / SHUT DOWN REPORT
STATION # 054
SYSTEM TYPE: RIS-

START UP REPORT:

SHUT DOWN REPORT:

Shut down system for replacement pump or
parts —

SIGNATURE: _____

[Handwritten Signature]



DATE: 7-15-98

START UP / SHUT DOWN REPORT
STATION # 054
SYSTEM TYPE : R&S

START UP REPORT:

SHUT DOWN REPORT:

System shut down because water pump
is leaking -

SIGNATURE: _____

R. D. Sykes

MAINFOLD														
WELLS	WATER							WELLS	VAPORS					
ON				REL			REL	ON	REL		REL		REL	REL
OFF								OFF						

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	14340	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	14	
					TK REC TEMP	F	90	
					AIR TEMP	F	60	
					AIR FLOW	CFM	13	
					VAPOR FLOW	CFM	15	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13	
					GAS METER		%50	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GALLON	10816	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: WHEN VAPOR SYSTEM WAS SHUT DOWN (RESTART) AGAIN,

SERVICE TECHNICAN F. J. [Signature] DATE 1-06-98 THRIFTY OIL CO # 019

**EARTH MANAGEMENT CO.**

Environmental Remediation

FIELD STATUS REPORT**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

MAINFOLD															
WELLS	WATER							WELLS	VAPORS						
ON				RR4			RR2	ON	RR1		RR3		RR6	RR2	
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	Am	
					HOURS	#	14205	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	12	
					TK REC TEMP	F	90	
					AIR TEMP	F	52	
					AIR FLOW	CFM	13	
					VAPOR FLOW	CFM	15	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13"	
					GAS METER		9.55	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	Gall.	9963	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS:

SERVICE TECHNICAN P. J. [Signature] DATE 6-30-88 THRIFTY OIL CO # 054

13415 Carmenita Road/P.O. Box 2129, Santa Fe Springs, CA 90670

OFFICE RECORD

**EARTH MANAGEMENT CO.**

Environmental Remediation

FIELD STATUS REPORT**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

(054)

MAINFOLD													
WELLS	WATER						WELLS	VAPORS					
ON				RE 4		RE 2	ON	RE 1		RE 3		RE 6	RE 2
OFF							OFF						

WELL MONITORING					RSI SYSTEM			
WELL NO.	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	13915	
					ENGINE RPM	RPM	1900	
					ENGINE VACUUM	IN HG	10	
					TK REC TEMP	F	100	
					AIR TEMP	F	56	
					AIR FLOW	CFM	16	
					VAPOR FLOW	CFM	17	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13	
					GAS METER		%55	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GALL	9212	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS:

SERVICE TECHNICIAN R. D. [Signature] DATE 6-16-97 THRIFTY OIL CO # 054

13415 Carmenita Road/P.O. Box 2129, Santa Fe Springs, CA 90670

OFFICE RECORD



FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD															
WELLS		WATER						WELLS		VAPORS					
ON					RE4		RE7	ON		RE1		RE3		RE6	RE7
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	13840	
					ENGINE RPM	RPM	1400	
					ENGINE VACUUM	IN HG	9	
					TK REC TEMP	F	90	
					AIR TEMP	F	52	
					AIR FLOW	CFM	14	
					VAPOR FLOW	CFM	17	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13	
					GAS METER		% 55	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM	>10860	
					OUTLET	PPM	240	

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GALLONS	9720	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS:

SERVICE TECHNICAN P. JONES

DATE 6-11-98

THRIFTY OIL CO # 054

13415 Carmenita Road/P.O. Box 2129, Santa Fe Springs, CA 90670

OFFICE RECORD



057
FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD													
		WATER								VAPORS			
WELLS								WELLS					
ON				RE4			RE7	ON	RE1		RE3		RE6 RE7
OFF								OFF					

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	13658	
					ENGINE RPM	RPM	1900	
					ENGINE VACUUM	IN HG	9	
					TK REC TEMP	F	90	
					AIR TEMP	F	52	
					AIR FLOW	CFM	13	
					VAPOR FLOW	CFM	17	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13	
					GAS METER		9060	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GALL	8682	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: WHEN I CAME TO VISIT ENGINE WAS STOP I RESTART -

SERVICE TECHNICAN QVX DATE 6-02-93 THRIFTY OIL CO # 056

**EARTH MANAGEMENT CO.**

Environmental Remediation

FIELD STATUS REPORT**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

057

MAINFOLD															
WELLS		WATER						WELLS		VAPORS					
ON				RE4			RE7	ON	RE1		RE3		RE6	RE7	
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	13490	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	8	
					TK REC TEMP	F	90	
					AIR TEMP	F	53	
					AIR FLOW	CFM	11	
					VAPOR FLOW	CFM	14	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13 =	
					GAS METER		%60	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GALL	8586	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: WATER IS VERY SLOW - WATER SAMPLING -

SERVICE TECHNICIAN Justin DATE 05-12 THRIFTY OIL CO # 054

**EARTH MANAGEMENT CO.**

Environmental Remediation

FIELD STATUS REPORT**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

054

MAINFOLD															
WELLS		WATER						WELLS		VAPORS					
ON				PE4			PE2	ON	PE1		PE3			PE6	PE2
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	13431	
					ENGINE RPM	RPM		
					ENGINE VACUUM	IN HG		
					TK REC TEMP	F		
					AIR TEMP	F		
					AIR FLOW	CFM		
					VAPOR FLOW	CFM		
					FUEL FLOW	CFM/H		
					WELL VACUUM	IN H2O		
					GAS METER			
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	Gall.	8536	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: Restart system. Boy pipe and fixed —

SERVICE TECHNICIAN J. R. [Signature] DATE 05.19.99 THRIFTY OIL CO # 054

054

MAINFOLD															
WELLS		WATER						WELLS		VAPORS					
ON				REF 4			REF 7	ON		REF 1		REF 3		REF 6	REF 7
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	13430	
					ENGINE RPM	RPM		
					ENGINE VACUUM	IN HG		
					TK REC TEMP	F		
					AIR TEMP	F		
					AIR FLOW	CFM		
					VAPOR FLOW	CFM		
					FUEL FLOW	CFM/H		
					WELL VACUUM	IN H2O		
					GAS METER			
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GAL.	8530	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: *System shut down. Pipe broken.*

SERVICE TECHNICAN *[Signature]* DATE *05-17-98* THRIFTY OIL CO # *054*

**EARTH MANAGEMENT CO.**

Environmental Remediation

FIELD STATUS REPORT**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

MAINFOLD													
WELLS	WATER							WELLS	VAPORS				
ON				REF 4			REF 7	ON	REF 1		REF 3		REF 6 REF 7
OFF								OFF					

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	PM	
					HOURS	#	13311	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	11	
					TK REC TEMP	F	100	
					AIR TEMP	F	54	
					AIR FLOW	CFM	14	
					VAPOR FLOW	CFM	18	
					FUEL FLOW	CFM/H	75	
					WELL VACUUM	IN H2O	13	
					GAS METER		%60	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	Cell.	8511	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS:

SERVICE TECHNICIAN

D. A. T. A. M.DATE 05-07-98

THRIFTY OIL CO #

054

EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

054

MAINFOLD															
WELLS		WATER						WELLS		VAPORS					
ON				RE4			RE7	ON		RE1		RE3		RE6	RE7
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	Am	
					HOURS	#	13204	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	9	
					TK REC TEMP	F	98	
					AIR TEMP	F	51	
					AIR FLOW	CFM	13	
					VAPOR FLOW	CFM	16	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13	
					GAS METER		%60	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM	51100	
					OUTLET	PPM	290	

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	Gall.	84824	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS:

SERVICE TECHNICIAN <u>CM</u>	DATE <u>8-21-98</u>	THRIFTY OIL CO # <u>056</u>
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13415 Carmenita Road/P.O. Box 2129, Santa Fe Springs, CA 90670

OFFICE RECORD



054

DATE: 4-23-98

START UP / SHUT DOWN REPORT
STATION # 054
SYSTEM TYPE : R.S.I.

START UP REPORT:

Restart system -

SHUT DOWN REPORT:

SIGNATURE: _____

[Signature]



57

DATE: 04-21-98

START UP / SHUT DOWN REPORT
STATION # 054
SYSTEM TYPE : RSI

START UP REPORT:

SHUT DOWN REPORT:

Shut down because no propane

SIGNATURE: _____

[Signature]

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD															
WELLS	WATER							WELLS	VAPORS						
ON				REF			REF	ON	REF		REF			REF	REF
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	13060	
					ENGINE RPM	RPM		
					ENGINE VACUUM	IN HG		
					TK REC TEMP	F		
					AIR TEMP	F		
					AIR FLOW	CFM		
					VAPOR FLOW	CFM		
					FUEL FLOW	CFM/H		
					WELL VACUUM	IN H2O		
					GAS METER			
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER			
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: *Restart System after change with new carbon drum -*

SERVICE TECHNICIAN *[Signature]* DATE *04-15-98* THRIFTY OIL CO # *054*



EARTH MANAGEMENT CO.

Environmental Remediation

54

MAINTENANCE & REPAIR REPORT

A) SS #: 054 SYSTEM TYPE: RS.1
B) DEFICIENCY DESCRIPTION :

C) NAME OF REPORTING PARTY AND DATE:
D) DATE SCHEDULED : 04-07-98

1) NAME: DATE/TIME
2) FINDINGS:

3) HAS THE JOB BEEN COMPLETED? YES/NO
IF "NO", PLEASE DESCRIBE WHY AND WHAT YOU NEED
TO FINISH:

4) POST REPAIR TEST RESULTS:

5) THE CAUSE OF THE DEFICIENCY:

BRIEF INSTRUCTIONS FOR PREVENTIVE MAINTENANCE TO THE TECHNICIAN:

change oil, cooler from engine + check hoses and
clean up around system -

6) OTHER:



DATE: 04-02-98 -

START UP / SHUT DOWN REPORT
STATION # 054
SYSTEM TYPE : R.S.I.

START UP REPORT:

SHUT DOWN REPORT:

I must shut down system because carbon change

SIGNATURE: *[Signature]*

**EARTH MANAGEMENT CO.**

Environmental Remediation

FIELD STATUS REPORT**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

054

MAINFOLD													
WELLS	WATER							WELLS	VAPORS				
ON				REG			REG	ON	REG		REG		REG
OFF								OFF					

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	PM	
					HOURS	#	13056	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	7	
					TK REC TEMP	F	90	
					AIR TEMP	F	56	
					AIR FLOW	CFM	11	
					VAPOR FLOW	CFM	16	
					FUEL FLOW	CFM/H	70	
					WELL VACUUM	IN H2O	13	
					GAS METER		%40	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM	16/10	
					OUTLET	PPM	310	

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GALLONS	84640	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: AIR and water SW, WATER is very close from well #4

SERVICE TECHNICIAN W. J. [Signature] DATE 03-17-98 THRIFTY OIL CO # 054

13415 Carmenita Road/P.O. Box 2129, Santa Fe Springs, CA 90670

OFFICE RECORD

054

MAINFOLD															
WELLS		WATER						WELLS		VAPORS					
ON								ON							
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	13056	
					ENGINE RPM	RPM		
					ENGINE VACUUM	IN HG		
					TK REC TEMP	F		
					AIR TEMP	F		
					AIR FLOW	CFM		
					VAPOR FLOW	CFM		
					FUEL FLOW	CFM/H		
					WELL VACUUM	IN H2O		
					GAS METER			
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	Gallons	84.6	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS: *System shut down because leaking from propane line.*

SERVICE TECHNICAN *J. Garcia* DATE *03-24-98* THRIFTY OIL CO # *054*



DATE: 03-24-98

START UP / SHUT DOWN REPORT
STATION # 057
SYSTEM TYPE : R.S.T.

START UP REPORT:

SHUT DOWN REPORT:

System shut down because leaking from
propane line -

SIGNATURE: Q. T. Taylor



(54)

DATE: 03-19-98

START UP / SHUT DOWN REPORT
STATION # 054
SYSTEM TYPE :

START UP REPORT:

SHUT DOWN REPORT:

System was shut down because leaking
propane was found and F.D. shut down line.

SIGNATURE: _____

[Handwritten Signature]

MAINFOLD

WELLS	WATER							WELLS	VAPORS						
ON				RE4			RE7	ON	RE1		RE2			RE6	RE7
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	PM	
					HOURS	#	13011	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	9	
					TK REC TEMP	F	100	
					AIR TEMP	F	53	
					AIR FLOW	CFM	13	
					VAPOR FLOW	CFM	17	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13	
					GAS METER		% 45	
					CATALIST IN	F		
					CATALIST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		

HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT			
PARAMETER	U/M	LIMIT	DATA
FLOWMETER	GALLONS	8320	
ROTAMETER			
VPI FLOW			
VPI VACUUM			
AIR COMPRES			
VAPOR			
INLET VAPOR			
TEMPERATURE			
LEL			

COMMENTS:

SERVICE TECHNICAN R. P. M. A. DATE 03-10-98 THRIFTY OIL CO # 054