

# THRIFTY OIL CO.

August 5, 1999

O.11910

Mr. Scott O. Seery, CHMM  
Hazardous Material Specialist  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

RE: **Thrifty Oil Co. #054**  
2504 Castro Valley Boulevard  
Castro Valley, CA 94541  
*2nd Quarter 1999, Status Report*

99 AUG -9 PM 4:40  
ENVIRONMENTAL  
PROTECTION

Dear Mr. Seery:

Presented herewith is the Second Quarter 1999, Status Report for Thrifty Oil Co. Station #054 located at 2504 Castro Valley Boulevard, Castro Valley, California.

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.

August 4, 1999

Mr. Scott O. Seery, CHMM  
Hazardous Material Specialist  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

RE: **Thrifty Oil Co. Station #054**  
2504 Castro Valley Boulevard  
Castro Valley, CA  
*2nd Quarter 1999, Status Report*

Dear Mr. Seery:

Presented herein is the Second Quarter 1999, Status Report prepared for Thrifty Oil Co. (Thrifty) Station #054 located at 2504 Castro Valley Boulevard, Castro Valley, California (**Figure 1**). Presented in this report are the results of the quarterly groundwater monitoring program conducted on June 22, 1999. Thrifty has retained the services of Earth Management Company (EMC) to conduct quarterly monitoring and sampling activities at this site.

## Groundwater Monitoring

Depth to groundwater is measured in each monitoring well on a quarterly basis. Historic gauging groundwater data obtained from April 11, 1988 through June 22, 1999 is presented in **Table 1**. In general, groundwater occurs under water table conditions beneath the station at depths ranging from 3.70 feet below ground surface (bgs) in monitoring wells RE-2 and RS-9 to 11.00 feet bgs in monitoring well RS-11, as measured on June 22, 1999. Field monitoring reports are included in **Appendix A**. Groundwater elevation contour map based on the June 22, 1999 data is presented in **Figure 1**. The general direction of groundwater flow beneath the site is to the east at a gradient ranging from 0.07 to 0.13 feet/foot, with localized water table mounding.

## Quarterly Groundwater Sampling

As part of the on-going groundwater monitoring program, groundwater samples were obtained from monitoring wells PW-1, RE-1 through RE-7, and RS-8 through RS-11 on June 22, 1999. Monitoring well PW-2 was purged but inadvertently not sampled during this sampling event. Groundwater



samples were obtained by EMC and delivered in a chilled state in an ice chest following strict Chain-of-Custody procedures to state-certified American Analytics laboratory, Chatsworth, California. Water samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA method 8020, and MTBE concentrations were verified by EPA method 8260. Total petroleum hydrocarbons (TPH-g) were analyzed by EPA method 8015 modified for gasoline. A summary of historical analytical sampling results are provided in **Table 1**. Copies of the EMC Field Status Reports are presented in **Appendix A**, and copies of the laboratory analytical reports are contained in **Appendix B**.

TPH-g, benzene, and MTBE concentrations appear in Table 1 and Appendix B. The TPH-g, benzene, and MTBE isoconcentration maps are presented in **Figure 2, 3, and 4**.

### **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, two activated 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 March 15, 1999, 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. ~~The system was non-operational during the 1st and 2nd Quarters of 1999 the system's compressor needed to be replaced.~~ It is anticipated that the system will be restarted during the Third Quarter 1999.

### **Vapor**

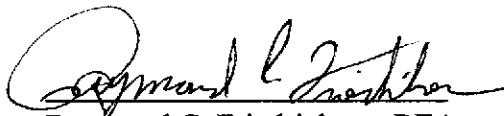
Wells RE-1, RE-3, RE-6, and RE-7 are connected to the vapor remediation system, and were all operating this quarter. The vapor system was operational from April 6, 1999 through June 28, 1999 for a total of 1,121 hours. The system was non-operational at various times through the quarter due to system maintenance. The system was maintained by EMC, and the RSI-SAVE unit operated 1,121 hours, bring the total operation hours to 22,288 (current meter reading 18,130). Treatment unit effluent vapor samples were collected during the operational period, and TPH-g, benzene, and MTBE were below the laboratory detection limit. Field status reports for the vapor monitoring system are located in **Appendix A**. Copies of laboratory analytical reports are located in **Appendix B**, and the system vapor results are presented in **Appendix C**.

**Planned Activities**

Groundwater monitoring, gauging, and sampling at this site will continue on a quarterly basis. Thrifty will evaluate the efficiency of the vapor extraction system. Once this analysis is complete, Thrifty will then make their recommendations in a separate report. Thrifty anticipates that the groundwater system will be operational during the Third Quarter 1999.

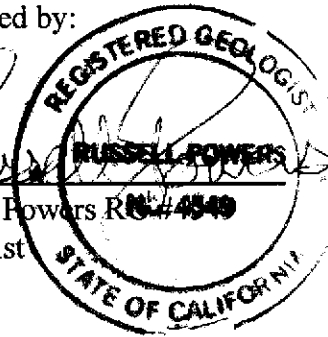
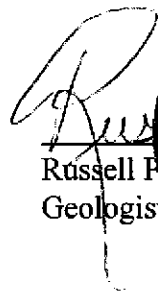
All interpretations expressed in this report are based upon the review of data collected by Earth Management Company. If you have any questions please contact the undersigned at (562) 921-3581 X376.

Written by:



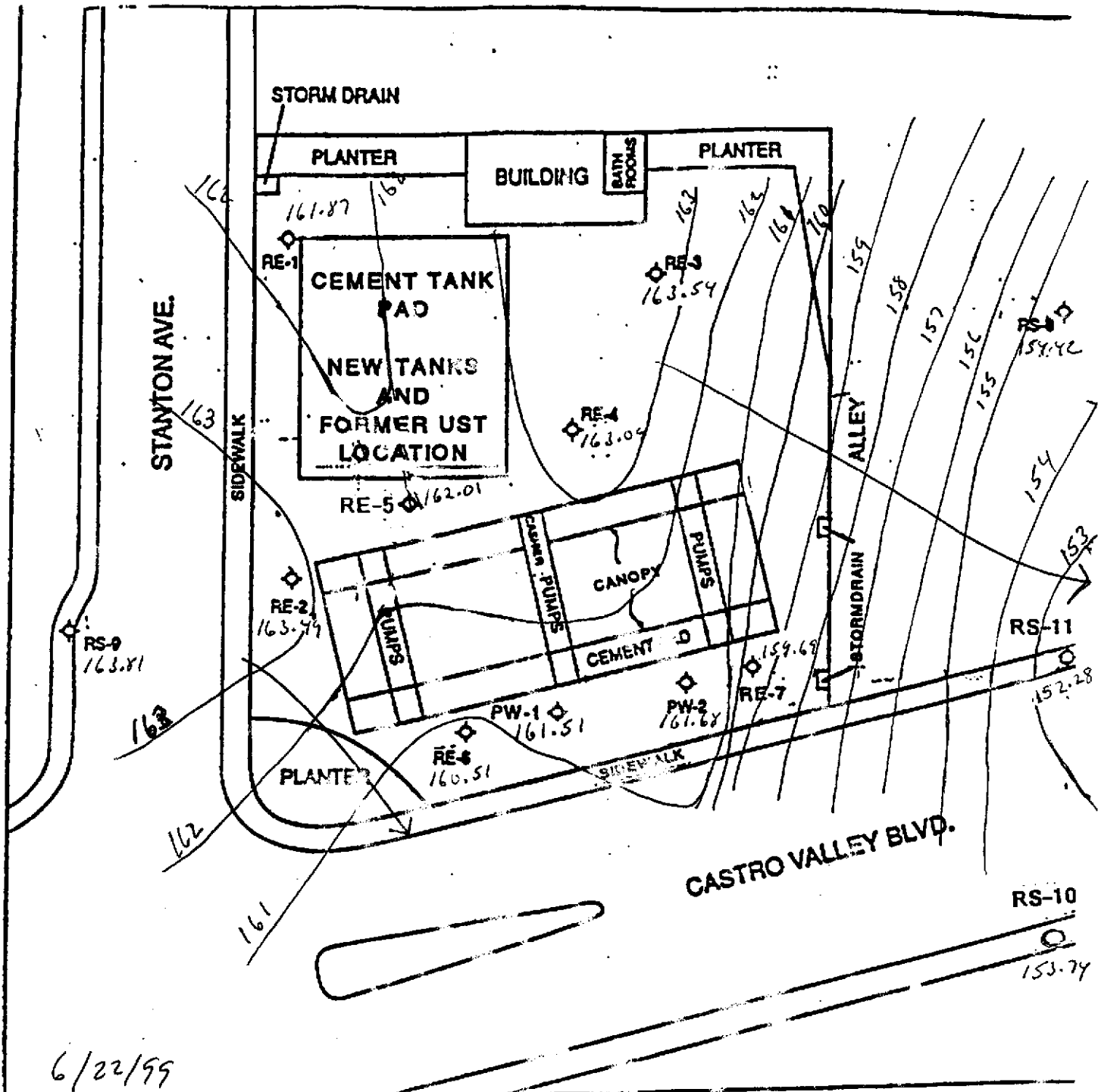
Raymond C. Friedrichsen, REA  
Project Manager  
Hydrogeologist

Reviewed by:



Russell Powers REG # 4549  
Geologist

# FIGURES

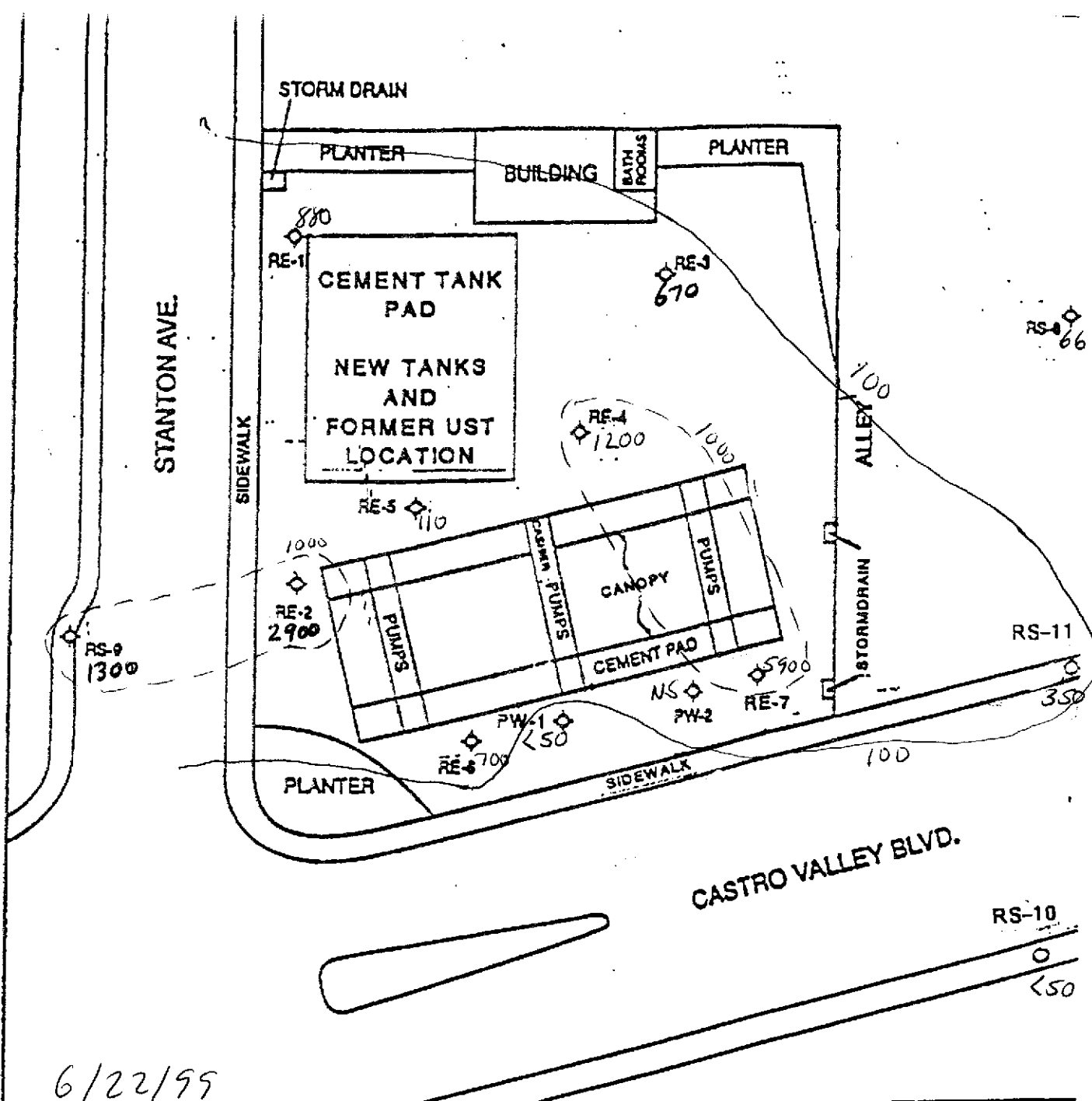


**GROUNDWATER CONTOUR MAP**  
**THRIFTY OIL CO. #051**  
**CASTRO VALLEY, CALIFORNIA**  
 Prepared for  
**THRIFTY OIL CO.**  
**SANTA FE, SPRINGS**  
**CALIFORNIA**



EXISTING MONITORING WELL

FIGURE 1



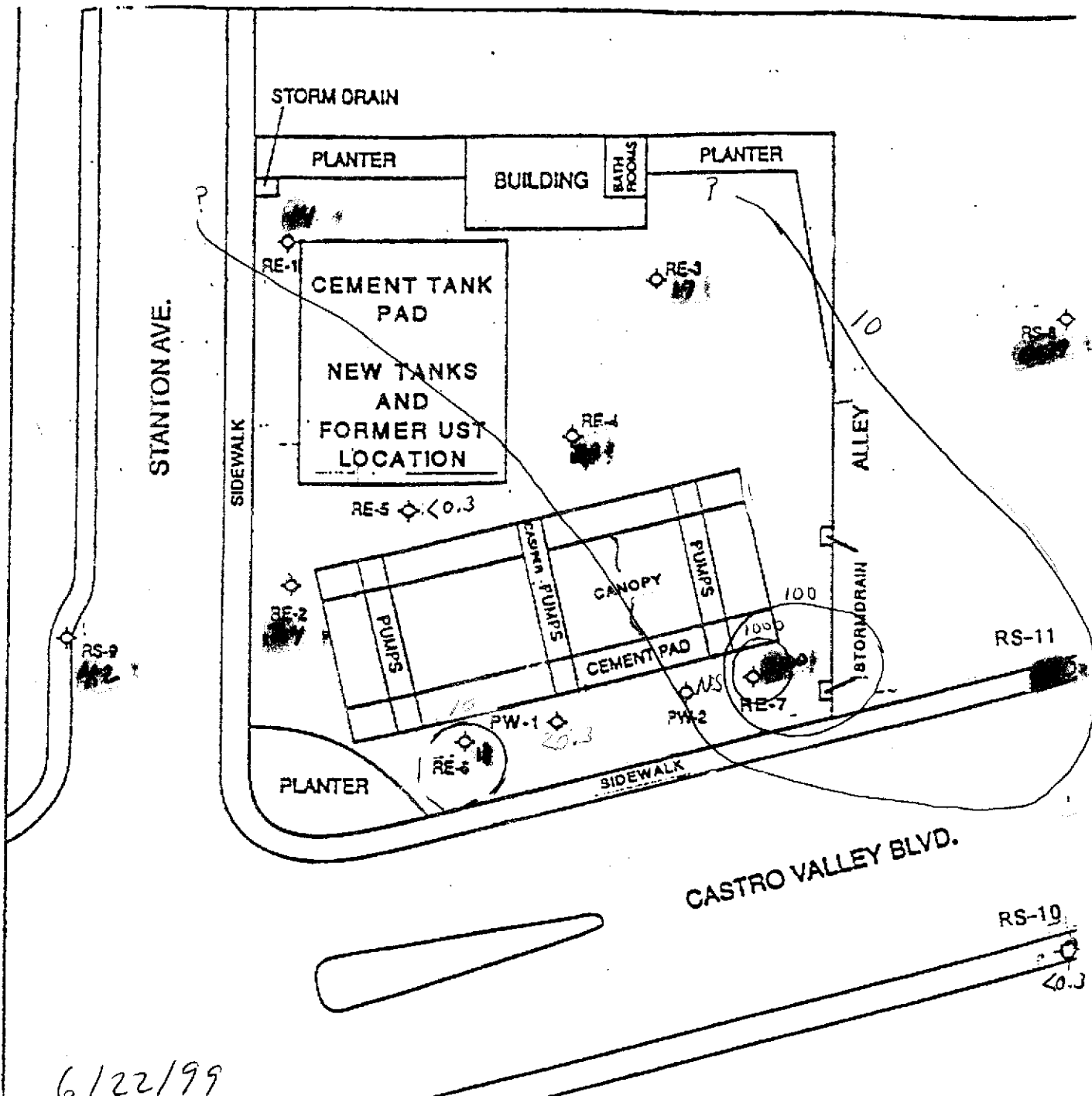
TPH GROUNDWATER ISOCONCENTRATION MAP PPB

THRIFTY OIL CO. #054  
 CASTRO VALLEY, CALIFORNIA  
 Prepared for  
 THRIFTY OIL CO.  
 SANTA FE, SPRINGS  
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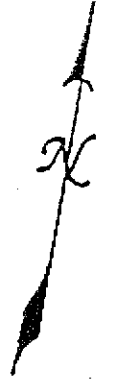
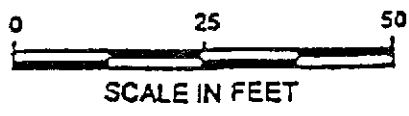
◊ EXISTING MONITORING WELL

FIGURE 2



~~DIAGRAM~~ ISOCONCENTRATION MAP PPB

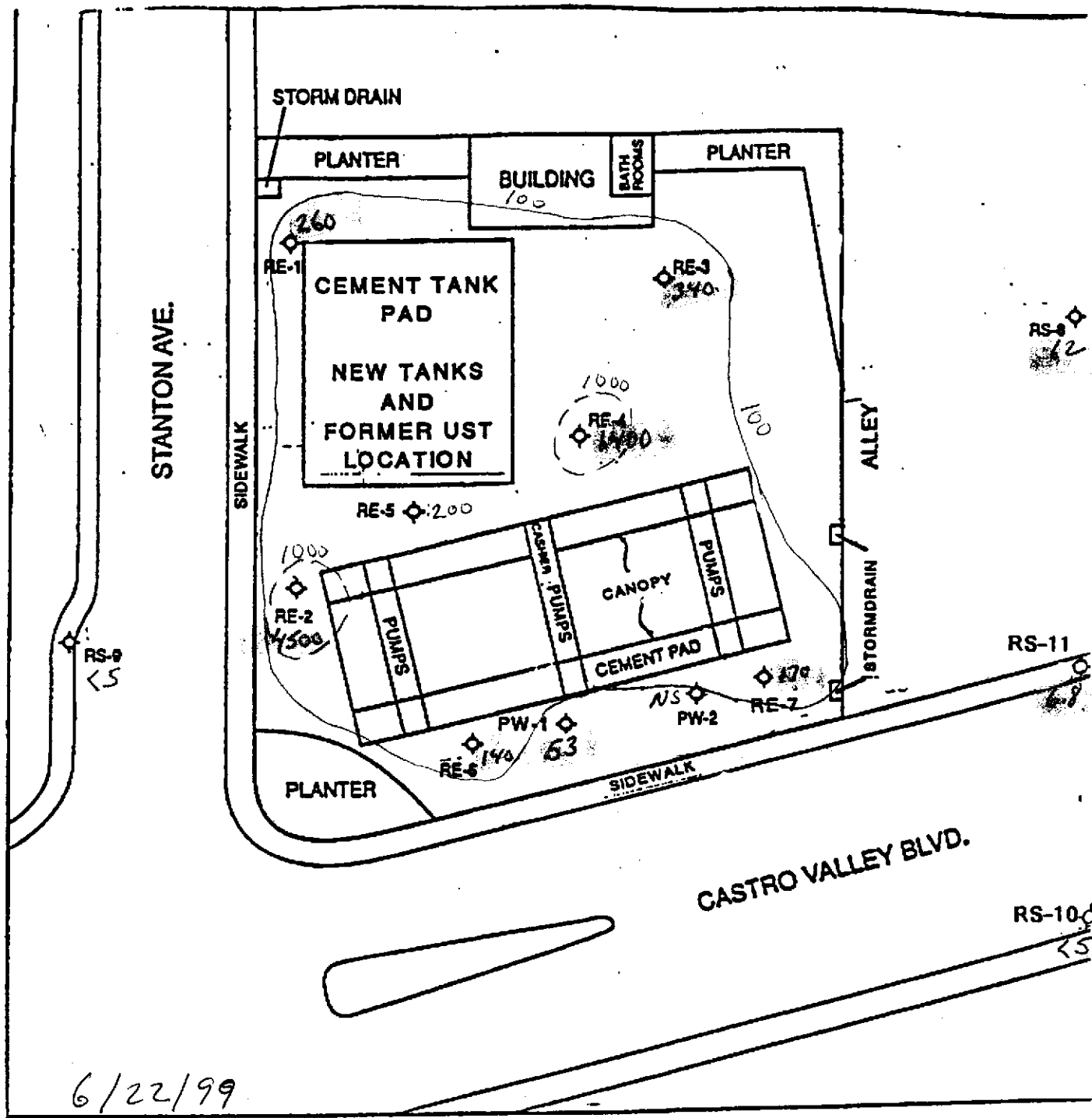
THRIFTY OIL CO. #054  
 CASTRO VALLEY, CALIFORNIA  
 Prepared for  
 THRIFTY OIL CO.  
 SANTA FE, SPRINGS  
 CALIFORNIA



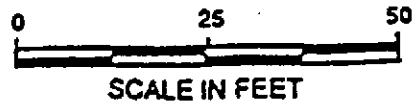
◊ EXISTING MONITORING WELL

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)					
<b>MONITORING WELL #PW-1</b>											
04/11/88	-	-	-	-	-	-	-	-	-	-	-
04/09/90	230,000	600	2,700	1,000	16,000	-	5.10	NP	0.00	166.46	161.36
10/30/90	35,000	240	970	240	3,580	-	6.17	NP	0.00	166.46	160.29
01/18/91	37,000	43	140	42	1,600	-	6.28	NP	0.00	166.46	160.18
02/12/91	45,000	99	130	25	700	-	5.88	NP	0.00	166.46	160.58
03/20/91	1,900	0.43	ND	ND	2.8	-	4.75	NP	0.00	166.46	161.71
05/22/91	41,000	600	730	250	3,800	-	5.10	NP	0.00	166.46	161.36
06/19/91	-	-	-	-	-	-	5.61	NP	0.00	166.46	160.85
07/17/91	-	-	-	-	-	-	5.53	FILM	0.00	166.46	160.93
08/07/91	-	-	-	-	-	-	5.67	FILM	0.00	166.46	160.79
09/24/91	-	-	-	-	-	-	5.57	FILM	0.00	166.46	160.89
10/23/91	-	-	-	-	-	-	6.53	FILM	0.00	166.46	159.93
11/06/91	-	-	-	-	-	-	5.85	FILM	0.00	166.46	160.61
12/04/91	-	-	-	-	-	-	5.91	FILM	0.00	166.46	160.55
01/29/92	-	-	-	-	-	-	5.43	FILM	0.00	166.46	161.03
02/26/92	-	-	-	-	-	-	5.54	FILM	0.00	166.46	160.92
03/19/92	ND	ND	ND	ND	ND	-	5.47	NP	0.00	166.46	160.99
04/22/92	-	-	-	-	-	-	5.62	FILM	0.00	166.46	160.84
05/21/92	1,300	19	2.9	0.7	58	-	6.21	NP	0.00	166.46	160.25
06/25/92	-	-	-	-	-	-	6.94	NP	0.00	166.46	159.52
07/30/92	-	-	-	-	-	-	5.90	FILM	0.00	166.46	160.56
08/20/92	-	-	-	-	-	-	7.12	FILM	0.00	166.46	159.34
09/30/92	3,400	57	ND	26	240	-	6.42	NP	0.00	166.46	160.04
12/23/92	-	-	-	-	-	-	5.56	FILM	0.00	166.46	160.90
03/10/93	-	-	-	-	-	-	5.65	FILM	0.00	166.46	160.81
06/09/93	400	<0.5	1.1	<1.0	<1.0	-	5.30	NP	0.00	166.46	161.16
09/14/93	180	3.7	3.2	1.5	14	-	5.43	NP	0.00	166.46	161.03
12/14/93	<50	<0.3	<0.3	<0.3	<0.5	-	4.65	NP	0.00	166.46	161.81
03/02/94	<50	<0.3	<0.3	<0.3	<0.5	-	5.43	NP	0.00	166.46	161.03
06/06/94	330	1.3	<0.3	0.88	9.8	-	4.70	NP	0.00	166.46	161.76
09/06/94	1,100	67	<0.3	<0.3	24	-	6.48	NP	0.00	166.46	159.98
12/07/94	<50	<0.3	<0.3	<0.5	<0.5	-	5.22	NP	0.00	166.46	161.24
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	6.94	NP	0.00	166.46	159.52
06/15/95	260	0.8	0.6	<0.5	3.2	-	5.72	NP	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	NP	0.00	166.46	160.50
11/21/95	660	13	1.3	<0.3	4.0	-	6.04	NP	0.00	166.46	160.42
03/11/96	660	0.94	0.77	<0.3	8.1	-	3.60	NP	0.00	166.46	162.86
06/19/96	120	0.53	<0.3	<0.3	2.3	-	4.80	NP	0.00	166.46	161.66
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.10	NP	0.00	166.46	161.36
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	4.92	NP	0.00	166.46	161.54
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.50	NP	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	<20	4.55	NP	0.00	166.46	161.91
12/09/97	640	150	0.64	<0.3	5.2	1,300	5.60	NP	0.00	166.46	160.86
03/03/98	<50	<0.3	0.57	<0.3	<0.5	<20	4.13	NP	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	NP	0.00	166.46	160.11
12/30/98	<50	1.1	<0.3	<0.3	<0.5	<5	6.40	NP	0.00	166.46	160.06
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.35	NP	0.00	166.46	160.11
06/22/99	<50	<0.3	<0.3	<0.3	<0.5	53	4.95	NP	0.00	166.46	161.51
<b>MONITORING WELL PW-2</b>											
04/11/88	-	-	-	-	-	-	-	-	-	-	-
04/09/90	600,000	1,300	11,000	4,600	4,300	-	5.81	NP	0.00	166.18	160.37
10/30/90	48,000	310	51	10	480	-	6.95	NP	0.00	166.18	159.23
01/18/91	86,000	230	1,400	350	8,300	-	6.92	NP	0.00	166.18	159.26
02/12/91	160,000	680	1,300	250	7,000	-	6.78	NP	0.00	166.18	159.40
03/20/91	17,000	34	50	ND	1,100	-	5.54	NP	0.00	166.18	160.64
05/22/91	14,000	57	2,100	500	8,200	-	6.07	NP	0.00	166.18	160.11
06/19/91	-	-	-	-	-	-	6.37	FILM	0.00	166.18	159.81
07/17/91	-	-	-	-	-	-	6.38	FILM	0.00	166.18	159.80
08/07/91	-	-	-	-	-	-	6.63	FILM	0.00	166.18	159.55
09/24/91	-	-	-	-	-	-	6.42	FILM	0.00	166.18	159.76
10/23/91	-	-	-	-	-	-	7.25	FILM	0.00	166.18	158.93
11/06/91	-	-	-	-	-	-	6.44	FILM	0.00	166.18	159.74
12/04/91	-	-	-	-	-	-	6.65	FILM	0.00	166.18	159.53
01/29/92	-	-	-	-	-	-	6.17	FILM	0.00	166.18	160.01
02/26/92	-	-	-	-	-	-	5.90	FILM	0.00	166.18	160.28

**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)					
03/19/92	-	-	-	-	-	-	5.80	FILM	0.00	166.18	160.38
04/22/92	-	-	-	-	-	-	5.88	FILM	0.00	166.18	160.30
05/21/92	-	-	-	-	-	-	6.03	FILM	0.00	166.18	160.15
06/25/92	-	-	-	-	-	-	6.57	FILM	0.00	166.18	159.61
07/30/92	-	-	-	-	-	-	6.20	FILM	0.00	166.18	159.98
08/20/92	-	-	-	-	-	-	6.64	FILM	0.00	166.18	159.54
09/30/92	-	-	-	-	-	-	6.88	FILM	0.00	166.18	159.30
12/23/92	-	-	-	-	-	-	6.08	FILM	0.00	166.18	160.10
03/10/93	-	-	-	-	-	-	5.95	FILM	0.00	166.18	160.23
06/09/93	3,400	24	22	<0.5	240	-	5.38	NP	0.00	166.18	160.80
09/14/93	4,900	190	15	6.8	480	-	6.26	NP	0.00	166.18	159.92
12/14/93	1,700	4.2	<0.3	<0.3	<0.5	-	5.22	NP	0.00	166.18	160.96
03/02/94	-	-	-	-	-	-	5.75	FILM	0.00	166.18	160.43
06/06/94	980	25	1.2	<0.3	42	-	5.25	NP	0.00	166.18	160.93
09/06/94	3,200	95	3.0	<1.7	76	-	6.80	NP	0.00	166.18	159.38
12/07/94	510	1.8	<0.3	<0.5	1.7	-	5.57	NP	0.00	166.18	160.61
03/08/95	1,900	<0.5	<0.5	1.4	35	-	4.10	NP	0.00	166.18	162.08
06/15/95	1,700	5.6	<0.5	<0.5	1.6	-	5.44	NP	0.00	166.18	160.74
09/05/95	2,500	33	1.0	0.86	18	-	6.13	NP	0.00	166.18	160.05
11/21/95	2,800	130	59	18	190	-	6.23	NP	0.00	166.18	159.95
03/11/96	13,000	330	460	<15	3,800	-	4.48	NP	0.00	166.18	161.70
06/19/96	1,400	<0.3	<0.3	<0.3	<0.5	-	5.38	NP	0.00	166.18	160.80
09/16/96	3,500	<0.3	<0.3	<0.3	<0.5	5,900	5.21	NP	0.00	166.18	160.97
12/10/96	2,100	<0.3	<0.3	<0.3	<0.5	4,700	4.87	NP	0.00	166.18	161.31
03/12/97	600	1.6	<0.3	<0.3	5.8	1,100	4.43	NP	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	320	4.07	NP	0.00	166.18	162.11
12/09/97	120	<0.3	0.73	<0.3	<0.5	420	5.20	NP	0.00	166.18	160.98
03/03/98	<50	0.43	0.48	<0.3	<0.5	47	3.30	NP	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	NP	0.00	166.18	161.03
12/30/98	<50	1.1	<0.3	<0.3	<0.5	<5	4.75	NP	0.00	166.18	161.43

**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)					
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.40	NP	0.00	166.18	161.78
06/22/99	-	-	-	-	-	-	4.50	NP	0.00	166.18	161.68
<b>MONITORING WELL #RE-1</b>											
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	NP	0.00	166.82	161.83
10/30/90	72,000	7,700	5,300	1,800	8,900	-	5.95	NP	0.00	166.82	160.87
01/18/91	150,000	11,000	14,000	1,800	4,300	-	5.17	NP	0.00	166.82	161.65
02/12/91	140,000	11,000	12,000	1,600	13,000	-	4.16	NP	0.00	166.82	162.66
03/20/91	53,000	3,100	4,200	400	5,500	-	4.75	NP	0.00	166.82	162.07
05/22/91	85,000	8,700	10,000	1,800	12,000	-	4.42	NP	0.00	166.82	162.40
06/19/91	110,000	8,500	9,600	2,600	16,000	-	4.93	NP	0.00	166.82	161.89
07/17/91	5,500	950	ND	26	ND	-	5.19	NP	0.00	166.82	161.63
08/07/91	-	6,700	5,000	ND	7,100	-	5.12	NP	0.00	166.82	161.70
09/24/91	60,000	6,800	4,300	640	6,900	-	5.87	NP	0.00	166.82	160.95
10/23/91	79,000	7,900	8,300	450	7,100	-	5.81	NP	0.00	166.82	161.01
11/06/91	130,000	14,000	15,000	1,100	8,800	-	5.56	NP	0.00	166.82	161.26
12/04/91	50,000	8,000	4,700	520	4,100	-	5.35	NP	0.00	166.82	161.47
01/29/92	21,000	10,300	11,000	780	6,000	-	4.50	NP	0.00	166.82	162.32
02/26/92	38,000	8,400	10,500	720	7,100	-	5.27	NP	0.00	166.82	161.55
03/19/92	48,000	6,200	9,700	780	7,200	-	4.47	NP	0.00	166.82	162.35
04/22/92	-	-	-	-	-	-	4.62	NP	0.00	166.82	162.20
05/21/92	20,000	7,600	10,100	830	6,900	-	4.98	NP	0.00	166.82	161.84
06/25/92	-	-	-	-	-	-	5.14	FILM	0.00	166.82	161.68
07/30/92	-	-	-	-	-	-	5.30	FILM	0.00	166.82	161.52
08/20/92	-	-	-	-	-	-	5.28	FILM	0.00	166.82	161.54
09/30/92	-	-	-	-	-	-	5.66	FILM	0.00	166.82	161.16
12/23/92	-	-	-	-	-	-	4.81	FILM	0.00	166.82	162.01
03/10/93	-	-	-	-	-	-	4.13	FILM	0.00	166.82	162.69
06/09/93	-	-	-	-	-	-	4.48	FILM	0.00	166.82	162.34
09/14/93	19,000	3,600	1,100	740	4,300	-	5.35	NP	0.00	166.82	161.47
12/14/93	38,000	4,300	1,300	<6.6	11	-	4.38	NP	0.00	166.82	162.44
03/02/94	-	-	-	-	-	-	4.22	FILM	0.00	166.82	162.60
06/06/94	-	-	-	-	-	-	2.16	FILM	0.00	166.82	164.66



**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)
	TEH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
11/06/91	1,900	18	61	9.1	83	-	5.14	NP	0.00	167.19	162.05
12/04/91	1,100	26	47	4.3	42	-	5.26	NP	0.00	167.19	161.93
01/29/92	900	14	24	5.3	19	-	5.11	NP	0.00	167.19	162.08
02/26/92	500	3.4	3.5	2.7	2.7	-	4.31	NP	0.00	167.19	162.88
03/19/92	1,200	14	20	15	18	-	4.45	NP	0.00	167.19	162.74
04/22/92	200	ND	ND	ND	ND	-	4.78	NP	0.00	167.19	162.41
05/21/92	500	7.5	6.8	3.9	7.4	-	5.02	NP	0.00	167.19	162.17
06/25/92	ND	ND	0.9	0.7	ND	-	5.13	NP	0.00	167.19	162.06
07/30/92	500	7.7	8.6	3.2	1.7	-	5.19	NP	0.00	167.19	162.00
08/20/92	1,100	6.6	4.5	2.7	2.0	-	5.27	NP	0.00	167.19	161.92
09/30/92	500	5.4	2.4	1.8	4.5	-	5.45	NP	0.00	167.19	161.74
12/23/92	800	1.9	ND	ND	2.3	-	4.60	NP	0.00	167.19	162.59
03/10/93	1,200	ND	1.4	ND	2.1	-	4.18	NP	0.00	167.19	163.01
06/09/93	200	ND	ND	ND	ND	-	4.53	NP	0.00	167.19	162.66
09/17/93	360	1.6	1.1	3.2	8.9	-	5.26	NP	0.00	167.19	161.93
12/14/93	260	5.6	3.9	<0.3	21.0	-	2.75	NP	0.00	167.19	164.44
03/02/94	410	<0.3	<0.3	<0.3	<0.5	-	4.27	NP	0.00	167.19	162.92
06/06/94	760	4.6	<0.3	0.32	1.3	-	4.88	NP	0.00	167.19	162.31
09/06/94	1,300	43	45	8.9	69	-	5.16	NP	0.00	167.19	162.03
12/07/94	-	-	-	-	-	-	4.16	NP	0.00	167.19	163.03
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	3.96	NP	0.00	167.19	163.23
06/15/95	130	<0.5	<0.5	<0.5	<1	-	4.52	NP	0.00	167.19	162.67
09/05/95	210	<0.5	<0.5	<0.5	<1	-	4.76	NP	0.00	167.19	162.43
11/21/95	160	0.65	<0.3	0.35	0.95	-	4.83	NP	0.00	167.19	162.36
03/11/96	<50	<0.3	<0.3	<0.3	<0.5	-	3.36	NP	0.00	167.19	163.83
06/19/96	<50	<0.3	<0.3	<0.3	<0.5	-	4.68	NP	0.00	167.19	162.51
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.10	NP	0.00	167.19	162.09
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	4.47	NP	0.00	167.19	162.72
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.05	NP	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	<20	4.08	NP	0.00	167.19	163.11
12/09/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.40	NP	0.00	167.19	162.79
03/03/98	<50	<0.3	<0.3	<0.3	<0.5	<20	3.30	NP	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	NP	0.00	167.19	162.26



**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)					
12/30/98	460	0.92	<0.3	<0.3	<0.5	1,400	4.20	NP	0.00	167.19	162.99
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.20	NP	0.00	167.19	162.99
06/21/99	2,900	7.4	<0.3	0.43	4.1		3.70	NP	0.00	167.19	163.49
<b>MONITORING WELL #RE-3</b>											
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	NP	0.00	167.39	160.24
10/30/90	13,000	860	660	220	2,210	-	7.84	NP	0.00	167.39	159.55
01/18/91	42,000	4,700	4,500	21	7,700	-	6.90	NP	0.00	167.39	160.49
02/12/91	72,000	3,600	4,500	ND	7,600	-	6.62	NP	0.00	167.39	160.77
03/20/91	65,000	2,400	9,400	50	9,800	-	5.87	NP	0.00	167.39	161.52
05/22/91	-	-	-	-	-	-	5.98	FILM	0.00	167.39	161.41
06/19/91	-	-	-	-	-	-	6.84	FILM	0.00	167.39	160.55
07/17/91	-	-	-	-	-	-	7.10	FILM	0.00	167.39	160.29
08/07/91	-	-	-	-	-	-	7.30	FILM	0.00	167.39	160.09
09/24/91	-	-	-	-	-	-	7.84	FILM	0.00	167.39	159.55
10/23/91	-	-	-	-	-	-	8.07	FILM	0.00	167.39	159.32
11/06/91	-	-	-	-	-	-	7.63	FILM	0.00	167.39	159.76
12/04/91	-	-	-	-	-	-	7.83	FILM	0.00	167.39	159.56
01/29/92	-	-	-	-	-	-	7.17	FILM	0.00	167.39	160.22
02/26/92	-	-	-	-	-	-	5.56	FILM	0.00	167.39	161.83
03/19/92	-	-	-	-	-	-	5.44	FILM	0.00	167.39	161.95
04/22/92	-	-	-	-	-	-	6.56	FILM	0.00	167.39	160.83
05/21/92	-	-	-	-	-	-	6.90	FILM	0.00	167.39	160.49
06/25/92	-	-	-	-	-	-	7.18	FILM	0.00	167.39	160.21
07/30/92	-	-	-	-	-	-	6.80	FILM	0.00	167.39	160.59
08/20/92	-	-	-	-	-	-	7.25	FILM	0.00	167.39	160.14
09/30/92	-	-	-	-	-	-	7.68	FILM	0.00	167.39	159.71
12/23/92	-	-	-	-	-	-	6.07	FILM	0.00	167.39	161.32
03/10/93	-	-	-	-	-	-	5.66	FILM	0.00	167.39	161.73
06/09/93	-	-	-	-	-	-	6.66	FILM	0.00	167.39	160.73
09/14/93	40,000	2,900	1,500	180	6,900	-	7.30	NP	0.00	167.39	160.09
12/14/93	-	-	-	-	-	-	5.95	NP	0.00	167.39	161.44
03/02/94	-	-	-	-	-	-	5.08	NP	0.00	167.39	162.31



**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)	MVBE (ug/L)					
10/23/91	-	-	-	-	-	-	11.20	FILM	0.00	166.94	155.74
11/06/91	-	-	-	-	-	-	6.62	FILM	0.00	166.94	160.32
12/04/91	-	-	-	-	-	-	11.20	ILM	0.00	166.94	155.74
01/29/92	-	-	-	-	-	-	7.72	FILM	0.00	166.94	159.22
02/26/92	-	-	-	-	-	-	5.13	FILM	0.00	166.94	161.81
03/19/92	-	-	-	-	-	-	5.00	FILM	0.00	166.94	161.94
04/22/92	-	-	-	-	-	-	5.94	FILM	0.00	166.94	161.00
05/21/92	-	-	-	-	-	-	5.40	FILM	0.00	166.94	161.54
06/25/92	-	-	-	-	-	-	5.71	FILM	0.00	166.94	161.23
07/30/92	-	-	-	-	-	-	6.33	FILM	0.00	166.94	160.61
08/20/92	-	-	-	-	-	-	5.80	FILM	0.00	166.94	161.14
09/30/92	-	-	-	-	-	-	6.34	FILM	0.00	166.94	160.60
12/23/92	-	-	-	-	-	-	5.50	FILM	0.00	166.94	161.44
03/10/93	-	-	-	-	-	-	4.67	FILM	0.00	166.94	162.27
06/09/93	-	-	-	-	-	-	5.12	FILM	0.00	166.94	161.82
09/14/93	-	-	-	-	-	-	10.44	NP	0.00	166.94	156.50
12/14/93	-	-	-	-	-	-	7.52	NP	0.00	166.94	159.42
03/02/94	-	-	-	-	-	-	4.85	NP	0.00	166.94	162.09
06/06/94	-	-	-	-	-	-	5.20	FILM	0.00	166.94	161.74
09/06/94	-	-	-	-	-	-	9.85	FILM	0.00	166.94	157.09
12/07/94	-	-	-	-	-	-	5.20	FILM	0.00	166.94	161.74
03/08/95	-	-	-	-	-	-	4.98	FILM	0.00	166.94	161.96
06/15/95	-	-	-	-	-	-	-	-	-	-	-
09/05/95	-	-	-	-	-	-	13.72	FILM	0.00	166.94	153.22
11/21/95	32,000	46	21	66	340	-	12.53	NP	0.00	166.94	154.41
03/11/96	1,700	130	15	2.0	120	-	4.72	NP	0.00	166.94	162.22
06/19/96	1,700	230	30	0.35	100	-	5.40	NP	0.00	166.94	161.54
09/16/96	510	<0.3	0.73	<0.3	<0.5	800	5.18	NP	0.00	166.94	161.76
12/10/96	520	<0.3	<0.3	<0.3	<0.5	1,000	4.65	NP	0.00	166.94	162.29
03/12/97	420	3.2	<0.3	<0.3	11	370	3.87	NP	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	<20	5.40	NP	0.00	166.94	161.54
12/09/97	1,400	330	2.3	<0.3	1.5	2,500	4.60	NP	0.00	166.94	162.34
03/03/98	3,000	400	0.61	0.5	97	3,800	5.05	NP	0.00	166.94	161.89
07/08/98	650	<0.3	<0.3	<0.3	<0.5	1,800	-	-	-	-	-

**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)					
09/10/98	2,700	<0.3	<0.3	<0.3	1.4	7,600	4.60	NP	0.00	166.94	162.34
12/30/98	530	<0.3	<0.3	<0.3	<0.5	1,500	4.20	NP	0.00	166.94	162.74
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	3.85	NP	0.00	166.94	163.09
06/22/99	1,200	23	1.5	<0.3	2.4	4,400	3.90	NP	0.00	166.94	163.04
<b>MONITORING WELL #R-3</b>											
04/11/88	14,000	1,300	1,100	100	2,600	-	-	-	-	-	-
04/09/90	3,000	690	190	40	270	-	4.79	NP	0.00	166.51	161.72
10/30/90	3,400	910	48	87	249	-	5.86	NP	0.00	166.51	160.65
01/18/91	1,400	180	8.6	0.52	48	-	4.40	NP	0.00	166.51	162.11
02/12/91	1,000	ND	ND	0.65	ND	-	4.76	NP	0.00	166.51	161.75
03/20/91	3,000	250	53	ND	110	-	5.08	NP	0.00	166.51	161.43
05/22/91	2,500	330	7.8	5.6	200	-	4.52	NP	0.00	166.51	161.99
01/19/91	2,000	59	1.6	5.1	110	-	4.39	NP	0.00	166.51	162.12
07/17/91	-	-	-	-	-	-	5.05	FILM	0.00	166.51	161.46
08/07/91	-	-	-	-	-	-	5.02	FILM	0.00	166.51	161.49
09/24/91	-	-	-	-	-	-	5.86	FILM	0.00	166.51	160.65
10/23/91	-	-	-	-	-	-	5.84	FILM	0.00	166.51	160.67
11/06/91	9,900	2,300	37	260	160	-	5.48	NP	0.00	166.51	161.03
12/04/91	4,500	1,000	27	ND	180	-	5.43	NP	0.00	166.51	161.08
01/29/92	600	6.1	2.3	ND	47	-	5.12	NP	0.00	166.51	161.39
02/26/92	500	5.4	2.7	1.2	14	-	4.93	NP	0.00	166.51	161.58
03/19/92	ND	1.7	1.1	ND	5.5	-	4.45	NP	0.00	166.51	162.06
04/22/92	1,600	240	2.2	ND	160	-	4.63	NP	0.00	166.51	161.88
05/21/92	1,200	410	37	ND	118	-	4.90	NP	0.00	166.51	161.61
06/25/92	ND	1.0	0.8	0.8	0.4	-	5.15	NP	0.00	166.51	161.36
07/30/92	ND	2.0	1.8	1.9	6.4	-	5.30	NP	0.00	166.51	161.21
08/20/92	300	1.7	3.3	0.7	12	-	5.44	NP	0.00	166.51	161.07
09/30/92	1,900	140	ND	19	35	-	5.73	NP	0.00	166.51	160.78
12/23/92	400	8.0	ND	ND	ND	-	4.75	NP	0.00	166.51	161.76
03/10/93	1,100	290	9.7	ND	75	-	4.14	NP	0.00	166.51	162.37
06/09/93	400	1.5	0.5	ND	12	-	5.42	NP	0.00	166.51	161.09
09/14/93	240	6.9	8.8	1.4	67	-	5.53	NP	0.00	166.51	160.98
12/14/93	3,300	510	5.4	4.1	55	-	478	NP	0.00	166.51	-311.49

**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)					
03/02/94	2,400	270	4.5	<0.3	13	-	4.20	NP	0.00	166.51	162.31
06/06/94	730	<0.3	<0.3	0.70	22	-	5.13	NP	0.00	166.51	161.38
09/06/94	2,400	180	28	2.3	76	-	5.45	NP	0.00	166.51	161.06
12/07/94	540	5.6	<0.3	<0.5	6.9	-	4.13	NP	0.00	166.51	162.38
03/08/95	1,500	220	5.5	<0.5	83	-	5.20	NP	0.00	166.51	161.31
06/15/95	3,200	820	53	6.2	74	-	4.93	NP	0.00	166.51	161.58
09/05/95	4,400	440	22	<2.5	57	-	5.03	NP	0.00	166.51	161.48
11/21/95	660	3.4	<0.3	<0.3	0.6	-	5.23	NP	0.00	166.51	161.28
03/11/96	1,000	76	2.2	<0.3	130	-	4.16	NP	0.00	166.51	162.35
06/09/96	90	<0.3	<0.3	<0.3	<0.5	-	5.42	NP	0.00	166.51	161.09
09/16/96	1,900	5.8	<0.3	<0.3	5.9	1,100	5.20	NP	0.00	166.51	161.31
12/10/96	740	<0.3	<0.3	<0.3	<0.5	1,300	5.27	NP	0.00	166.51	161.24
03/12/97	2,000	600	59	5.1	54	1,300	3.85	NP	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	210	4.10	NP	0.00	166.51	162.41
12/09/97	11,000	2,500	2,700	<6	1,500	510	5.20	NP	0.00	166.51	161.31
03/03/98	<50	<0.3	<0.3	<0.3	<0.5	<20	3.70	NP	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	NP	0.00	166.51	159.74
12/30/98	<50	<0.3	<0.3	<0.3	<0.5	<5	5.95	NP	0.00	166.51	160.56
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	5.25	NP	0.00	166.51	161.26
06/22/99	110	<0.3	<0.3	<0.3	<0.5	200	4.50	NP	0.00	166.51	162.01
<b>MONITORING WELL #RE-6</b>											
04/11/88	6,000	3,000	40	80	140	-	-	-	-	-	-
04/09/90	3,000	990	ND	70	ND	-	5.64	NP	0.00	166.51	160.87
10/30/90	3,400	1,000	28	ND	ND	-	6.68	NP	0.00	166.51	159.83
01/18/91	6,300	1,200	ND	3.0	15	-	6.61	NP	0.00	166.51	159.90
02/12/91	5,200	850	8.4	4.9	41	-	6.20	NP	0.00	166.51	160.31
03/20/91	5,800	680	12	8.0	16	-	5.62	NP	0.00	166.51	160.89
05/22/91	8,500	1,700	14	24	6.7	-	6.05	NP	0.00	166.51	160.46
06/19/91	-	-	-	-	-	-	6.12	FILM	0.00	166.51	160.39
07/17/91	120,000	9,300	13,000	2,400	16,000	-	6.20	NP	0.00	166.51	160.31
08/07/91	-	590	5.3	ND	14	-	6.27	NP	0.00	166.51	160.24

**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)					
09/24/91	7,000	310	11	5.3	35	-	6.63	NP	0.00	166.51	159.88
10/23/91	-	-	-	-	-	-	6.36	FILM	0.00	166.51	160.15
11/06/91	4,000	710	18	29	49	-	6.15	NP	0.00	166.51	160.36
12/04/91	4,100	1,100	14	33	39	-	6.19	NP	0.00	166.51	160.32
01/29/92	2,600	790	14	ND	49	-	6.70	NP	0.00	166.51	159.81
02/26/92	3,100	950	21	30	33	-	5.44	NP	0.00	166.51	161.07
03/19/92	2,200	630	14	12	40	-	5.30	NP	0.00	166.51	161.21
04/22/92	-	730	2.2	ND	40	-	6.00	NP	0.00	166.51	160.51
05/21/92	1,500	840	7.8	7.1	34	-	6.25	NP	0.00	166.51	160.26
06/25/92	<2000	740	8.0	27	28	-	6.38	NP	0.00	166.51	160.13
07/30/92	-	-	-	-	-	-	6.42	FILM	0.00	166.51	160.09
08/20/92	2,800	630	17	23	22	-	6.50	NP	0.00	166.51	160.01
09/30/92	7,800	540	ND	12	29	-	6.66	NP	0.00	166.51	159.85
12/23/92	1,800	350	ND	7.7	11	-	5.83	NP	0.00	166.51	160.68
03/10/93	3,000	830	5.6	19	16	-	5.63	NP	0.00	166.51	160.88
06/09/93	4,800	920	6.2	3.2	12	-	6.01	NP	0.00	166.51	160.50
09/14/93	3,600	660	7.5	11	27	-	6.53	NP	0.00	166.51	159.98
12/14/93	1,500	200	<0.3	<0.3	8.8	-	3.58	NP	0.00	166.51	162.93
03/02/94	-	-	-	-	-	-	5.12	NP	0.00	166.51	161.39
06/06/94	2,400	290	4.6	1.3	24	-	1.85	NP	0.00	166.51	164.66
09/06/94	4,300	230	21	<6.6	130	-	6.40	NP	0.00	166.51	160.11
12/07/94	1,500	17	2.5	3.2	22	-	5.68	NP	0.00	166.51	160.83
03/08/95	2,500	460	5.5	2.1	51	-	5.12	NP	0.00	166.51	161.39
06/15/95	2,300	91	1.1	0.7	97	-	5.72	NP	0.00	166.51	160.79
09/05/95	3,300	60	<10	<10	74	-	5.94	NP	0.00	166.51	160.57
11/21/95	2,000	7.3	<0.3	0.56	8.7	-	6.24	NP	0.00	166.51	160.27
03/11/96	840	43	0.96	5.7	14	-	5.16	NP	0.00	166.51	161.35
06/19/96	1,800	160	2.7	9.9	25	-	5.80	NP	0.00	166.51	160.71
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.38	NP	0.00	166.51	161.13
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.62	NP	0.00	166.51	160.89
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	5.20	NP	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	320	5.20	NP	0.00	166.51	161.31
12/09/97	<50	<0.3	<0.3	<0.3	<0.5	<20	5.97	NP	0.00	166.51	160.54
03/03/98	400	7.0	<0.3	<0.3	4.3	65	4.45	NP	0.00	166.51	162.06

**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.)					
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	NP	0.00	166.51	160.61
12/30/98	<50	<0.3	<0.3	<0.3	<0.5	<5	5.20	NP	0.00	166.51	161.31
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	8.4	4.82	NP	0.00	166.51	161.69
06/22/99	700	11	1.9	<0.3	3.9	140	6.00	NP	0.00	166.51	160.51
<b>MONITORING WELL #R-7</b>											
04/11/88	<50,000	17,000	4,400	600	8,400	-	-	-	-	-	-
04/09/90	16,000	7,000	1,200	640	1,600	-	5.93	NP	0.00	166.04	160.11
10/30/90	31,000	14,000	ND	ND	ND	-	8.21	NP	0.00	166.04	157.83
01/18/91	-	-	-	-	-	-	11.80	NP	0.00	166.04	154.24
02/12/91	-	-	-	-	-	-	10.80	FILM	0.00	166.04	155.24
03/20/91	120,000	12,000	2,800	490	6,600	-	9.96	NP	0.00	166.04	156.08
05/22/91	-	-	-	-	-	-	11.70	FILM	0.00	166.04	154.34
06/19/91	-	-	-	-	-	-	11.50	FILM	0.00	166.04	154.54
07/17/91	-	-	-	-	-	-	7.80	FILM	0.00	166.04	158.24
08/07/91	-	-	-	-	-	-	9.88	0.03	9.85	166.04	163.60
09/24/91	-	-	-	-	-	-	9.85	0.03	9.82	166.04	163.60
10/23/91	-	-	-	-	-	-	9.96	FILM	0.00	166.04	156.08
11/06/91	-	-	-	-	-	-	6.77	FILM	0.00	166.04	159.27
12/04/91	-	-	-	-	-	-	10.80	FILM	0.00	166.04	155.24
01/29/92	-	-	-	-	-	-	8.64	FILM	0.00	166.04	157.40
02/26/92	-	-	-	-	-	-	6.00	FILM	0.00	166.04	160.04
03/19/92	-	-	-	-	-	-	5.55	FILM	0.00	166.04	160.49
04/22/92	-	-	-	-	-	-	6.12	FILM	0.00	166.04	159.92
05/21/92	-	-	-	-	-	-	6.40	FILM	0.00	166.04	159.64
06/25/92	-	-	-	-	-	-	6.73	0.02	6.71	166.04	164.38
07/30/92	-	-	-	-	-	-	6.73	FILM	0.00	166.04	159.31
08/20/92	-	-	-	-	-	-	6.82	FILM	0.00	166.04	159.22
09/30/92	-	-	-	-	-	-	7.26	FILM	0.00	166.04	158.78
12/23/92	-	-	-	-	-	-	6.22	FILM	0.00	166.04	159.82
03/10/93	-	-	-	-	-	-	5.82	FILM	0.00	166.04	160.22
06/09/93	-	-	-	-	-	-	6.17	FILM	0.00	166.04	159.87
09/14/93	-	-	-	-	-	-	11.33	NP	0.00	166.04	154.71

**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)					
12/14/93	-	-	-	-	-	-	8.40	NP	0.00	166.04	157.64
03/02/94	-	-	-	-	-	-	6.82	NP	0.00	166.04	159.22
06/06/94	-	-	-	-	-	-	10.95	FILM	0.00	166.04	155.09
09/06/94	-	-	-	-	-	-	11.30	FILM	0.00	166.04	154.74
12/07/94	-	-	-	-	-	-	5.63	FILM	0.00	166.04	160.41
03/08/95	-	-	-	-	-	-	5.06	FILM	0.00	166.04	160.98
06/15/95	-	-	-	-	-	-	-	-	-	-	-
09/05/95	-	-	-	-	-	-	7.98	FILM	0.00	166.04	158.06
11/21/95	20,000	8,800	110	<30	310	-	7.32	NP	0.00	166.04	158.72
03/11/96	4,800	2,200	38	26	120	-	5.62	NP	0.00	166.04	160.42
06/19/96	4,400	3,300	49	5.8	70	-	6.40	NP	0.00	166.04	159.64
09/19/96	7,200	510	83	<0.3	710	130	6.20	NP	0.00	166.04	159.84
12/10/96	700	<0.3	<0.3	<0.3	<0.5	1,400	5.92	NP	0.00	166.04	160.12
03/12/97	660	0.31	<0.3	<0.3	<0.5	1,400	5.62	NP	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	930	7.45	NP	0.00	166.04	158.59
12/09/97	14,000	3,500	3,700	<15	2,100	1,100	7.10	NP	0.00	166.04	158.94
03/03/98	6,100	2,500	18	<6	110	270	6.70	NP	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	NP	0.00	166.04	159.00
12/30/98	600	2.0	0.55	<0.3	<0.5	350	6.25	NP	0.00	166.04	159.79
03/15/99	350	0.71	<0.3	<0.3	<0.5	140	6.02	NP	0.00	166.04	160.02
06/22/99	5,900	2,100	16	4.6	48	170	6.35	NP	0.00	166.04	159.69
<b>MONITORING WELL HRS-3</b>											
08/07/91	ND	ND	ND	ND	ND	-	9.68	NP	0.00	164.32	154.64
09/27/91	ND	ND	ND	ND	ND	-	9.89	NP	0.00	164.32	154.43
10/23/91	ND	ND	ND	ND	ND	-	10.05	NP	0.00	164.32	154.27
11/06/91	ND	ND	ND	ND	ND	-	9.71	NP	0.00	164.32	154.61
12/04/91	ND	ND	ND	ND	ND	-	10.00	NP	0.00	164.32	154.32
01/29/92	ND	2.1	1.0	2.5	3.6	-	9.28	NP	0.00	164.32	155.04
02/26/92	ND	ND	0.7	ND	0.7	-	7.05	NP	0.00	164.32	157.27
03/19/92	ND	0.5	1.0	1.5	2.7	-	7.30	NP	0.00	164.32	157.02
04/22/92	ND	ND	ND	ND	ND	-	8.60	NP	0.00	164.32	155.72



**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)					
05/21/92	ND	ND	ND	ND	ND	-	9.22	NP	0.00	164.32	155.10
06/25/92	ND	ND	ND	ND	ND	-	9.49	NP	0.00	164.32	154.83
07/30/92	ND	1.1	4.2	ND	3.0	-	9.55	NP	0.00	164.32	154.77
08/20/92	ND	2.0	4.7	ND	5.7	-	9.63	NP	0.00	164.32	154.69
09/30/92	ND	ND	ND	ND	ND	-	9.90	NP	0.00	164.32	154.42
12/23/92	ND	ND	ND	ND	ND	-	9.96	NP	0.00	164.32	154.36
05/10/93	ND	ND	ND	ND	ND	-	8.95	NP	0.00	164.32	155.37
06/09/93	ND	ND	ND	ND	ND	-	9.00	NP	0.00	164.32	155.32
09/14/93	200	0.3	ND	ND	ND	-	9.50	NP	0.00	164.32	154.82
12/14/93	ND	ND	ND	ND	ND	-	8.75	NP	0.00	164.32	155.57
03/02/94	<50	<0.3	<0.3	<0.3	<0.5	-	7.52	NP	0.00	164.32	156.80
06/06/94	54	<0.3	<0.3	<0.3	2.4	-	9.00	NP	0.00	164.32	155.32
09/06/94	<50	<0.3	<0.3	<0.3	<0.5	-	9.26	NP	0.00	164.32	155.06
12/07/94	130	2.5	1.9	1.3	3.6	-	8.67	NP	0.00	164.32	155.65
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	8.34	NP	0.00	164.32	155.98
06/15/95	<100	1.0	<0.5	<0.5	<1	-	9.12	NP	0.00	164.32	155.20
09/05/95	<100	<0.5	<0.5	<0.5	<1	-	9.56	NP	0.00	164.32	154.76
11/21/95	<50	0.44	<0.3	<0.3	1.5	-	9.28	NP	0.00	164.32	155.04
03/11/96	<50	1.3	<0.3	<0.3	0.6	-	7.52	NP	0.00	164.32	156.80
06/19/96	640	72	20	34	150	-	7.80	NP	0.00	164.32	156.52
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	20	9.18	NP	0.00	164.32	155.14
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.08	NP	0.00	164.32	158.24
03/12/97	53	0.45	<0.3	<0.3	<0.5	140	8.65	NP	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	<20	8.30	NP	0.00	164.32	156.02
12/09/97	<50	1.7	2.1	<0.3	1.4	82	9.98	NP	0.00	164.32	154.34
03/03/98	<50	<0.3	<0.3	<0.3	<0.5	84	8.33	NP	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	NP	0.00	164.32	151.37
12/30/98	<50	1.3	1.5	<0.3	0.86	19	11.35	NP	0.00	164.32	152.97
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	9.6	9.85	NP	0.00	164.32	154.47
06/22/99	66	0.39	<0.3	<0.3	<0.5	62	9.90	NP	0.00	164.32	154.42

**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)					
<b>MONITORING WELL IRS-9</b>											
08/07/91	-	0.5	ND	330	1,200	-	2.28	NP	0.00	167.51	165.23
09/27/91	13,000	3.5	3.0	82	140	-	2.77	NP	0.00	167.51	164.74
10/23/91	11,000	ND	ND	39	340	-	3.53	NP	0.00	167.51	163.98
11/06/91	6,800	8.4	0.6	22	230	-	2.51	NP	0.00	167.51	165.00
12/04/91	6,500	6.5	0.7	87	200	-	3.20	NP	0.00	167.51	164.31
01/29/92	8,100	22	10	140	260	-	2.65	NP	0.00	167.51	164.86
02/26/92	13,000	40	16	220	600	-	3.42	NP	0.00	167.51	164.09
03/19/92	12,000	21	12	100	280	-	3.12	NP	0.00	167.51	164.39
04/22/92	8,600	ND	ND	20	37	-	3.24	NP	0.00	167.51	164.27
05/21/92	6,000	21	10	53	210	-	3.75	NP	0.00	167.51	163.76
06/25/92	370	2.3	1.5	0.7	4.3	-	2.65	NP	0.00	167.51	164.86
07/30/92	3,600	20	ND	39	80	-	2.70	NP	0.00	167.51	164.81
08/20/92	3,000	0.7	5.2	2.0	5.3	-	2.83	NP	0.00	167.51	164.68
09/30/92	9,200	4.8	6.5	12	91	-	2.80	NP	0.00	167.51	164.71
12/23/92	2,000	17	ND	8.2	18	-	2.45	NP	0.00	167.51	165.06
03/10/93	1,500	ND	2.6	21	12	-	2.40	NP	0.00	167.51	165.11
06/09/93	1,300	0.6	1.7	ND	7.5	-	3.55	NP	0.00	167.51	163.96
09/14/93	1,500	1.3	7.6	4.1	14	-	2.81	NP	0.00	167.51	164.70
12/14/93	560	ND	ND	ND	5.5	-	2.63	NP	0.00	167.51	164.88
03/02/94	1,100	<0.3	<0.3	<0.3	<0.5	-	2.60	NP	0.00	167.51	164.91
06/06/94	290	0.58	0.53	1.1	5.8	-	2.52	NP	0.00	167.51	164.99
09/06/94	890	<0.3	<0.3	<0.3	3.1	-	3.16	NP	0.00	167.51	164.35
12/07/94	940	22	23	10	32	-	5.18	NP	0.00	167.51	162.33
03/08/95	1,600	<0.5	<0.5	<0.5	2.3	-	4.57	NP	0.00	167.51	162.94
06/15/95	3,200	2.2	5.3	4.3	3.1	-	5.08	NP	0.00	167.51	162.43
09/05/95	1,100	<0.5	<0.5	<0.5	<1	-	5.72	NP	0.00	167.51	161.79
11/21/95	1,100	1.1	2.9	3.5	3.0	-	2.46	NP	0.00	167.51	165.05
03/11/96	440	0.7	0.34	<0.3	3.7	-	3.44	NP	0.00	167.51	164.07
06/19/96	580	3.8	0.49	1.2	<0.5	-	3.80	NP	0.00	167.51	163.71
09/16/96	490	<0.3	1.6	<0.3	<0.5	<20	3.80	NP	0.00	167.51	163.71
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	2.76	NP	0.00	167.51	164.75
03/12/97	<50	<0.3	0.42	<0.3	1.5	<20	3.20	NP	0.00	167.51	164.31
06/12/97	<50	<0.3	<0.3	<0.3	0.51	<20	-	-	-	-	-
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<20	4.24	NP	0.00	167.51	163.27

**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)					
12/09/97	<50	<0.3	0.48	<0.3	<0.5	<20	2.72	NP	0.00	167.51	164.79
03/03/98	190	<0.3	<0.3	0.38	<0.5	<20	1.90	NP	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	NP	0.00	167.51	164.79
12/30/98	<50	<0.3	<0.3	<0.3	<0.5	<5	1.20	NP	0.00	167.51	166.31
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.25	NP	0.00	167.51	163.26
06/22/99	1,300	4.2	1.2	0.69	0.74	<5	3.70	NP	0.00	167.51	163.81
<b>MONITORING WELL IRS-10</b>											
08/07/91	ND	ND	ND	ND	ND	-	6.16	NP	0.00	162.89	156.73
09/27/91	ND	ND	ND	ND	ND	-	6.48	NP	0.00	162.89	156.41
10/23/91	ND	ND	ND	ND	ND	-	7.37	NP	0.00	162.89	155.52
11/06/91	ND	ND	ND	ND	ND	-	6.44	NP	0.00	162.89	156.45
12/04/91	ND	ND	ND	ND	ND	-	7.02	NP	0.00	162.89	155.87
01/29/92	ND	ND	ND	ND	ND	-	6.78	NP	0.00	162.89	156.11
02/26/92	ND	ND	ND	ND	ND	-	8.33	NP	0.00	162.89	154.56
03/19/92	ND	ND	ND	ND	0.6	-	8.02	NP	0.00	162.89	154.87
04/22/92	ND	ND	ND	ND	ND	-	7.78	NP	0.00	162.89	155.11
05/21/92	ND	ND	0.6	ND	1.2	-	6.21	NP	0.00	162.89	156.68
06/25/92	ND	ND	ND	ND	ND	-	7.73	NP	0.00	162.89	155.16
07/30/92	ND	ND	0.5	ND	1.0	-	7.84	NP	0.00	162.89	155.05
08/20/92	ND	ND	ND	ND	ND	-	7.50	NP	0.00	162.89	155.39
09/30/92	ND	ND	ND	ND	ND	-	7.63	NP	0.00	162.89	155.26
12/23/92	ND	ND	ND	ND	ND	-	7.24	NP	0.00	162.89	155.65
03/10/93	ND	ND	ND	ND	ND	-	6.38	NP	0.00	162.89	156.51
06/09/93	ND	ND	ND	ND	ND	-	7.98	NP	0.00	162.89	154.91
09/14/93	ND	ND	ND	ND	ND	-	7.35	NP	0.00	162.89	155.54
03/02/94	<50	<0.3	<0.3	<0.3	<0.3	-	7.00	NP	0.00	162.89	155.89
06/06/94	<50	<0.3	<0.3	<0.3	<0.5	-	6.55	NP	0.00	162.89	156.34
09/06/94	<50	<0.3	<0.3	<0.3	<0.5	-	7.63	NP	0.00	162.89	155.26
12/07/94	56	<0.3	<0.3	<0.5	2.1	-	5.92	NP	0.00	162.89	156.97
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	7.84	NP	0.00	162.89	155.05
06/15/95	<100	<0.5	<0.5	<0.5	<1	-	6.97	NP	0.00	162.89	155.92
09/05/95	<100	<0.5	<0.5	<0.5	<1	-	8.14	NP	0.00	162.89	154.75

**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)					
11/21/95	<50	<0.3	<0.3	<0.3	<0.5	-	7.68	NP	0.00	162.89	155.21
03/11/96	<50	<0.3	<0.3	<0.3	<0.5	-	6.76	NP	0.00	162.89	156.13
06/19/96	<50	<0.3	<0.3	<0.3	<0.5	-	7.20	NP	0.00	162.89	155.69
09/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.30	NP	0.00	162.89	156.59
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.05	NP	0.00	162.89	156.84
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	7.56	NP	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	<20	7.55	NP	0.00	162.89	155.34
12/09/97	1,900	610	510	<6	290	<20	7.55	NP	0.00	162.89	155.34
03/03/98	<50	2.0	<0.3	<0.3	<0.5	27	6.03	NP	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	72	7.55	NP	0.00	162.89	155.34
12/30/98	<50	1.1	<0.3	<0.3	<0.5	<5	4.45	NP	0.00	162.89	158.44
03/15/99	<50	<0.3	<0.3	<0.3	1.3	<5	4.50	NP	0.00	162.89	158.39
06/22/99	<50	<0.3	<0.3	<0.3	<0.5	<5	9.15	NP	0.00	162.89	153.74
<b>MONITORING WELL MRS-11</b>											
09/21/95	110	<0.5	<0.5	<0.5	<1	-	9.37	NP	0.00	163.28	153.91
11/21/95	-	-	-	-	-	-	-	-	-	-	-
03/11/96	-	-	-	-	-	-	-	-	-	-	-
06/19/96	-	-	-	-	-	-	-	-	-	-	-
09/16/96	-	-	-	-	-	-	-	-	-	-	-
03/12/97	74	9.5	<0.3	<0.3	0.57	<20	7.75	NP	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	<20	9.50	NP	0.00	163.28	153.78
12/09/97	<50	0.79	1.2	<0.3	<0.5	<20	9.50	NP	0.00	163.28	153.78
03/03/98	140	22	0.63	<0.3	<0.5	<20	7.93	NP	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	NP	0.00	163.28	153.80
12/30/98	<50	1.3	0.87	<0.3	0.55	<5	7.95	NP	0.00	163.28	155.33

**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)					
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6.40	NP	0.00	163.28	156.88
06/22/99	350	89	2.9	3.3	0.91	6.8	11.00	NP	0.00	163.28	152.28

**NOTE:** ND = Nondetectable  
 " - " = Not Analyzed / Not Available  
 NP = No Free Product

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

# APPENDIX A

MAINFOLD																
WELLS		WATER						WELLS		VAPORS						
ON								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	#	18130	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	13	
					TK REC TEMP	F	100	
					AIR TEMP	F	68	
					AIR FLOW	CFM	16	
					VAPOR FLOW	CFM	12	
					FUEL FLOW	CFM/H	75	
					WELL VACUUM	IN H2O	13	
					GAS METER		% 20	
					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: *System runs only few hours??*

SERVICE TECHNICAN *P. [Signature]* DATE 06-28-99 THRIFTY OIL CO # 059

RECEIVED

JUN 28 1999

ENVIRONMENTAL

1.11127



THRIFTY OIL CO. SS #054  
 2504 CASTRO VALLEY BLVD.  
 CASTRO VALLEY, CA 94546  
 DATE: 06-22-1999

PROJECT STATUS REPORT

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	4.95				X			X		X	-					
M	PW-2	4.50				X			X		X	-					
M	RE-1	4.95				X			X		X	-					
M	RE-2	3.70				X			X		X	-		X			
M	RE-3	3.85				X			X		X	-					
M	RE-4	3.90				X			X		X	-		X			
M	RE-5	4.50				X			X		X	-					
M	RE-6	6.00				X			X		X	-					
M	RE-7	6.35				X			X		X	-		X			
M	RS-8	9.90				X			X		X	-		X			
M	RS-9	3.70				X			X		-	X					
M	RS-10	9.15				X			X		-	X					
M	RS-11	11.00				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.	N/A

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 ( ) \_\_\_\_\_

REMARKS: Q.W.S. ( ) Q.-SEE C.CUST.

FREE PRODUCT REMOVED: APPROX. \_\_\_\_\_ GALLONS WATER REMOVED: APPROX. 280 GALLONS

DATA RECORDED BY: SLV INPUT BY: AJB 02/05/97



FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	<u>SS 054</u>	Date:	<u>6-22-1999</u>
Address:			
Personnel:	<u>SERBATA P.</u>	Weather:	<u>SUNNY DAY</u>
Well No:	<u>RE-3</u>	Equip:	<u>BAUER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>17.60</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>3.85</u>	Est. Purge Volume:	<u>36</u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	<u>8:30</u>	<u>8:35</u>	<u>8:40</u>	<u>8:45</u>	<u>8:49</u>	<u>8:54</u>	<u>9:00</u>
EC	<u>1730</u>	<u>1710</u>	<u>1670</u>	<u>1640</u>	<u>16300</u>	<u>1610</u>	<u>1610</u>
pH	<u>6.08</u>	<u>6.03</u>	<u>6.01</u>	<u>6.01</u>	<u>5.97</u>	<u>5.94</u>	<u>5.94</u>
Temp	<u>71.1</u>	<u>70.9</u>	<u>70.7</u>	<u>70.5</u>	<u>70.3</u>	<u>70.1</u>	<u>69.9</u>
Gal.	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>36</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	<u>2.10</u>
Total Well Depth(ft.)	<u>17.60</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	33 054	Date:	6-22-1999
Address:			
Personnel:	SERBANY D	Weather:	SUNNY DAY
Well No:	RS-9	Equip:	BAILER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	15.00	Well Diameter	2 <sup>4</sup>
Depth to Water (ft)	3.70	Est. Purge Volume:	8

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	9:08	9:10	9:12	9:14	9:16	9:18	9:20
EC	1810	1910	1790	1760	1730	1730	1710
pH	6.01	5.93	5.91	5.84	5.83	5.81	5.78
Temp	21.3	21.1	20.9	20.9	20.2	20.4	20.2
Gal.	1	2	3	4	5	6	8
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	3.20
Total Well Depth(ft).	15.00

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	22054	Date:	6-22-1999
Address:			
Personnel:	SERBINA A	Weather:	SUNNY DAY
Well No:	RE-2	Equip:	BATLER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	17.10	Well Diameter	4"
Depth to Water (ft)	3.70	Est. Purge Volume:	35

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	9:30	9:35	9:40	9:45	9:50	9:55	10:00
EC	1820	1810	1760	1730	1730	1720	1710
pH	6.07	5.97	5.95	5.93	5.91	5.87	5.87
Temp	71.1	70.9	70.7	70.5	70.4	70.3	70.1
Gal.	5	10	15	20	25	30	35
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	3.20
Total Well Depth(ft.)	17.10

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	S3 054	Date:	6-22-1999
Address:			
Personnel:	SERBON P.	Weather:	SUNNY DAY
Well No:	PW-1	Equip:	BAILER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	14.10	Well Diameter	4"
Depth to Water (ft)	4.95	Est. Purge Volume:	24

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	10:09	10:12	10:16	10:19	10:23	10:26	10:30
EC	1720	1730	1710	1690	1640	1610	1610
pH	6.01	5.94	5.91	5.88	5.85	5.83	5.81
Temp	71.1	70.9	70.7	70.5	70.5	70.3	70.1
Gal.	3	6	10	13	17	20	24
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	3.40
Total Well Depth(ft).	14.10

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	<u>33054</u>	Date:	<u>6-22-1999</u>
Address:			
Personnel:	<u>SERBON P.</u>	Weather:	<u>SUNNY DAY</u>
Well No:	<u>RE-4</u>	Equip:	<u>BOILER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>14.60</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>3.90</u>	Est. Purge Volume:	<u>28</u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	<u>10:46</u>	<u>10:50</u>	<u>10:54</u>	<u>10:58</u>	<u>11:02</u>	<u>11:06</u>	<u>11:10</u>
EC	<u>1710</u>	<u>1770</u>	<u>1740</u>	<u>1730</u>	<u>1730</u>	<u>1710</u>	<u>1690</u>
pH	<u>6.01</u>	<u>6.93</u>	<u>5.91</u>	<u>5.87</u>	<u>5.84</u>	<u>5.81</u>	<u>5.79</u>
Temp	<u>21.3</u>	<u>21.1</u>	<u>20.9</u>	<u>20.7</u>	<u>20.5</u>	<u>20.3</u>	<u>20.3</u>
Gal.	<u>4</u>	<u>8</u>	<u>12</u>	<u>16</u>	<u>20</u>	<u>24</u>	<u>28</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	<u>3.10</u>
Total Well Depth(ft).	<u>14.60</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>33 054</u>	Date: <u>6-22-1999</u>
Address: _____	
Personnel: <u>SERBAN P.</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>R3-10</u>	Equip: <u>BAUER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>24.45</u>	Well Diameter	<u>2"</u>
Depth to Water (ft)	<u>9.15</u>	Est. Purge Volume:	<u>10</u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	<u>11:18</u>	<u>11:20</u>	<u>11:22</u>	<u>11:24</u>	<u>11:26</u>	<u>11:28</u>	<u>11:30</u>
EC	<u>1710</u>	<u>1690</u>	<u>1660</u>	<u>1630</u>	<u>1630</u>	<u>1610</u>	<u>1570</u>
pH	<u>6.01</u>	<u>5.97</u>	<u>5.94</u>	<u>5.91</u>	<u>5.99</u>	<u>5.87</u>	<u>5.85</u>
Temp	<u>71.1</u>	<u>70.9</u>	<u>70.7</u>	<u>70.5</u>	<u>70.4</u>	<u>70.2</u>	<u>70.1</u>
Gal.	<u>1</u>	<u>2</u>	<u>4</u>	<u>5</u>	<u>7</u>	<u>8</u>	<u>10</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	<u>8.30</u> Total Well Depth(ft.) <u>24.45</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	33 054	Date:	6-22-1999
Address:			
Personnel:	SERBON P.	Weather:	SUNNY DAY
Well No:	RS-8	Equip:	BOILER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	25.20	Well Diameter	27
Depth to Water (ft)	9.90	Est. Purge Volume:	10

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	11:33	11:35	11:37	11:39	11:41	11:43	11:45
EC	1840	1830	1820	1770	1750	1730	1710
pH	6.04	6.01	5.94	5.91	5.87	5.84	5.84
Temp	21.1	20.9	20.7	20.7	20.5	20.4	20.3
Gal.	1	2	4	5	7	8	10
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	8.20
Total Well Depth(ft).	25.20

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>33 054</u>	Date: <u>6-22-1999</u>
Address: _____	
Personnel: <u>SERBAN D.</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>RS-11</u>	Equip: <u>BAILER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>24.80</u>	Well Diameter	<u>2"</u>
Depth to Water (ft)	<u>11.00</u>	Est. Purge Volume:	<u>9</u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	<u>11:50</u>	<u>11:51</u>	<u>11:53</u>	<u>11:55</u>	<u>11:57</u>	<u>11:58</u>	<u>12:00</u>
EC	<u>1630</u>	<u>1610</u>	<u>1620</u>	<u>1590</u>	<u>1570</u>	<u>1030</u>	<u>1010</u>
pH	<u>6.01</u>	<u>5.93</u>	<u>5.91</u>	<u>5.87</u>	<u>5.82</u>	<u>5.85</u>	<u>5.81</u>
Temp	<u>71.3</u>	<u>71.1</u>	<u>70.9</u>	<u>70.7</u>	<u>70.6</u>	<u>70.4</u>	<u>70.3</u>
Gal.	<u>1</u>	<u>2</u>	<u>3</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>9</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.) <u>9.30</u>	Total Well Depth(ft). <u>24.80</u>



FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	33 054	Date:	6-22-1999
Address:			
Personnel:	SERBOW P.	Weather:	SUNNY DAY
Well No:	RE-6	Equip:	BOILER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	13.65	Well Diameter	47
Depth to Water (ft)	6.00	Est. Purge Volume:	20

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	12:22	12:25	12:28	12:31	12:34	12:37	12:40
EC	1720	1710	1710	1690	1670	1660	1630
pH	6.04	5.97	5.94	5.91	5.87	5.85	5.93
Temp	21.1	20.9	20.7	20.5	20.3	20.3	20.1
Gal.	2	5	8	11	14	17	20
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	4.40
Total Well Depth(ft).	13.65

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	<u>33054</u>	Date:	<u>6-22-1999</u>
Address:			
Personnel:	<u>SERBAN P</u>	Weather:	<u>SUNNY DAY</u>
Well No:	<u>PW-2</u>	Equip:	<u>BAILER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>14.40</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>4.50</u>	Est. Purge Volume:	<u>26</u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	<u>12:55</u>	<u>12:59</u>	<u>13:05</u>	<u>13:08</u>	<u>13:12</u>	<u>13:16</u>	<u>13:20</u>
EC	<u>1830</u>	<u>1830</u>	<u>1810</u>	<u>1790</u>	<u>1770</u>	<u>1730</u>	<u>1730</u>
pH	<u>6.01</u>	<u>5.97</u>	<u>5.94</u>	<u>5.93</u>	<u>5.91</u>	<u>5.89</u>	<u>5.84</u>
Temp	<u>21.3</u>	<u>21.1</u>	<u>20.9</u>	<u>20.9</u>	<u>20.7</u>	<u>20.5</u>	<u>20.3</u>
Gal.	<u>3</u>	<u>7</u>	<u>11</u>	<u>14</u>	<u>18</u>	<u>22</u>	<u>26</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	<u>3.60</u>
Total Well Depth(ft).	<u>14.40</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	<u>53 054</u>	Date:	<u>6-22-1999</u>
Address:			
Personnel:	<u>SERBAX D.</u>	Weather:	<u>SUNNY DAY</u>
Well No:	<u>RE-7</u>	Equip:	<u>BAILER</u>

<b>Before Purging:</b>			
Total Well Depth: (ft.)	<u>13.20</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>6.35</u>	Est. Purge Volume:	<u>18</u>

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	<u>13:34</u>	<u>13:37</u>	<u>13:39</u>	<u>13:42</u>	<u>13:44</u>	<u>13:47</u>	<u>13:50</u>
EC	<u>1840</u>	<u>1830</u>	<u>1810</u>	<u>1790</u>	<u>1760</u>	<u>1740</u>	<u>1740</u>
pH	<u>6.09</u>	<u>6.03</u>	<u>5.93</u>	<u>5.91</u>	<u>5.84</u>	<u>5.81</u>	<u>5.79</u>
Temp	<u>71.1</u>	<u>70.9</u>	<u>70.7</u>	<u>70.6</u>	<u>70.4</u>	<u>70.3</u>	<u>70.1</u>
Gal.	<u>2</u>	<u>5</u>	<u>7</u>	<u>10</u>	<u>12</u>	<u>15</u>	<u>18</u>
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	<u>5.20</u>
Total Well Depth(ft.)	<u>13.20</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	33 054	Date:	6-22-1999
Address:			
Personnel:	SERBATA P.	Weather:	SUNNY Dry
Well No:	RE-5	Equip:	BAUER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	18.25	Well Diameter	44
Depth to Water (ft)	4.50	Est. Purge Volume:	36

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	14:09	14:14	14:19	14:24	14:29	14:34	14:40
EC	1730	1740	1740	1730	1720	1710	1690
pH	6.01	5.91	5.83	5.79	5.76	5.73	5.71
Temp	21.1	20.9	20.7	20.5	20.3	20.1	19.9
Gal.	5	10	15	20	25	30	36
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	3.20
Total Well Depth(ft).	18.25

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	SS 054	Date:	6-22-1999
Address:			
Personnel:	SERBON A	Weather:	SUNNY DAY
Well No:	RE-1	Equip:	BAUER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	19.85	Well Diameter	4"
Depth to Water (ft)	4.95	Est. Purge Volume:	39

<b>Sampling Data:</b>							
Initial Turbidity:				Final Turbidity:			
Time	14:55	15:01	15:06	15:12	15:17	15:23	15:30
EC	1870	1890	1870	1840	1830	1820	1820
pH	6.03	5.98	5.93	5.91	5.85	5.83	5.81
Temp	71.1	70.9	70.7	70.1	70.1	70.3	70.1
Gal.	5	11	16	22	27	33	39
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>	
Depth to Water (ft.)	3.40
Total Well Depth(ft).	19.85



THRIFTY OIL CO. SS #054  
 2504 CASTRO VALLEY BLVD.  
 CASTRO VALLEY, CA 94546  
 DATE: 06-01-99

PROJECT STATUS REPORT

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	6.28				X			X		X	-					
M	PW-2	4.35				X			X		X	-					
M	RE-1	5.63				X			X		X	-			X		
M	RE-2	4.15				X			X		X	-					
M	RE-3	4.11				X			X		X	-			X		
M	RE-4	3.81				X			X		X	-					
M	RE-5	5.21				X			X		X	-					
M	RE-6	4.78				X			X		X	-					
M	RE-7	5.97				X			X		X	-			X		
M	RS-8	9.81				X			X		-	X					
M	RS-9	4.21				X			X		-	X					
M	RS-10	4.47				X			X			X					
M	RS-11	6.36				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: ENGINE NEED REBUILD -

FREE PRODUCT REMOVED: APPROX. \_\_\_\_\_ GALLONS WATER REMOVED: APPROX. \_\_\_\_\_ GALLONS

DATA RECORDED BY: DP INPUT BY: AJB 02/05/97



**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

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

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	18093	
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	13	
					TK REC TEMP	F	98	
					AIR TEMP	F	66	
					AIR FLOW	CFM	14	
					VAPOR FLOW	CFM	10	
					FUEL FLOW	CFM/H	78	
					WELL VACUUM	IN H2O	13	
					GAS METER		0/20	
					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: ENGINE WAS STOP, I RESTART AGAIN - ??

SERVICE TECHNICIAN [Signature] DATE 05-24-99 THRIFTY OIL CO # 054



**FIELD STATUS REPORT**

**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

**MAINFOLD**

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

**WELL MONITORING**

WELL NO	DTW	DTP	PT	DTB

**RSI SYSTEM**

PARAMETER	U/M	DATA	OBS
TIME	AM/PM		
HOURS	#	18062	
ENGINE RPM	RPM	1780	
ENGINE VACUUM	IN HG	13	
TK REC TEMP	F	100	
AIR TEMP	F	64	
AIR FLOW	CFM	16	
VAPOR FLOW	CFM	11	
FUEL FLOW	CFM/H	75	
WELL VACUUM	IN H2O	13	
GAS METER		% 20	
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: Engine run few hours, after stop ?? Need check and do some test -

SERVICE TECHNICAN R. Wilson DATE 05-17-99 THRIFTY OIL CO # 054



5A

# FIELD STATUS REPORT

## GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD														
WELLS	WATER						WELLS	VAPORS						
ON							ON	REF1		REF3			REF6	REF7
OFF							OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	2010	
					ENGINE RPM	RPM	1100	
					ENGINE VACUUM	IN HG	13	
					TK REC TEMP	F	40	
					AIR TEMP	F	72	
					AIR FLOW	CFM	14	
					VAPOR FLOW	CFM	8	
					FUEL FLOW	CFM/H	30	
					WELL VACUUM	IN H2O	13	
					GAS METER		% 20	
					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		

COMMENTS: ENGINE DON'T RUN MORE THAN FEW HOURS??

SERVICE TECHNICAN W.D. DATE 05-10-03 THRIFTY OIL CO # 114



# EARTH MANAGEMENT CO.

Environmental Remediation

# FIELD STATUS REPORT

## GROUND WATER AND SOIL CLEAN-UP SYSTEM

54

### MAINFOLD

WELLS	WATER						WELLS	VAPORS					
ON							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	#	17392	
					ENGINE RPM	RPM	1300	
					ENGINE VACUUM	IN HG	14	
					TK REC TEMP	F	70	
					AIR TEMP	F	70	
					AIR FLOW	CFM	20	
					VAPOR FLOW	CFM	14	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13	
					GAS METER		%24	
					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: ENGINE WAS SHUT DOWN, I NEED REPLACE COIL AND RESTART AGAIN

SERVICE TECHNICAN [Signature] DATE 04-26-14 THRIFTY OIL CO # 035





057

**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

**MAINFOLD**

WELLS		WATER						WELLS		VAPORS					
ON								RE1		RE3			RE6	RE7	
OFF															

**WELL MONITORING**

WELL NO	DTW	DTP	PT	DTB

**RSI SYSTEM**

PARAMETER	U/M	DATA	OBS
TIME	AM/PM	Am	
HOURS	#	17342	
ENGINE RPM	RPM	1700	
ENGINE VACUUM	IN HG	13	
TK REC TEMP	F	20	
AIR TEMP	F	72	
AIR FLOW	CFM	13	
VAPOR FLOW	CFM	11	
FUEL FLOW	CFM/H	75	
WELL VACUUM	IN H2O	13	
GAS METER		96.24	
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:

SERVICE TECHNICAN [Signature] DATE 04-12-99 THRIFTY OIL CO # 359

054

**FIELD STATUS REPORT**

**GROUND WATER AND SOIL CLEAN-UP SYSTEM**

MAINFOLD															
WELLS	WATER							WELLS	VAPORS						
	ON									ON	RE 1		RE 3		
OFF								OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	AM	
					HOURS	#	17009	
					ENGINE RPM	RPM	1300	
					ENGINE VACUUM	IN HG	3	
					TK REC TEMP	F	98	
					AIR TEMP	F	52	
					AIR FLOW	CFM	14	
					VAPOR FLOW	CFM	17	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13	

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			

GAS METER		% 24	
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		

COMMENTS: System was shut down. I restarted again

SERVICE TECHNICIAN [Signature] DATE 04-06-99 THRIFTY OIL CO # 054

# **APPENDIX B**





## LABORATORY ANALYSIS RESULTS

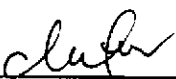
Page 1

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

AA Project No.: A135054-95  
Date Received: 06/25/99  
Date Reported: 07/04/99  
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
90039	RE-3	06/22/99	06/28/99	670	50
90040	RS-9	06/22/99	06/28/99	1300	50
90041	RE-2	06/22/99	06/28/99	2900	50
90042	PW-1	06/22/99	06/28/99	<50	50
90043	RE-4	06/22/99	06/28/99	1200	50
90044	RS-10	06/22/99	06/28/99	<50	50
90045	RS-8	06/22/99	06/28/99	66	50
90046	RS-11	06/22/99	06/28/99	350	50
90047	RE-6	06/22/99	06/28/99	700	50
90048	RE-7	06/22/99	06/28/99	5900	50
90049	RE-5	06/22/99	06/28/99	110	50
90050	RE-1	06/22/99	06/28/99	880	50
90051	Trip Blank	06/22/99	06/28/99	<50	50

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.

  
George Havalias  
Laboratory Director



**LABORATORY ANALYSIS RESULTS**

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

**AA Project No.:** A135054-95  
**Date Received:** 06/25/99  
**Date Reported:** 07/04/99  
**Units:** ug/L

	06/22/99	06/22/99	06/22/99	06/22/99	
<b>Date Sampled:</b>	06/22/99	06/22/99	06/22/99	06/22/99	
<b>Date Analyzed:</b>	06/28/99	06/28/99	06/28/99	06/28/99	
<b>AA ID No.:</b>	90039	90040	90041	90042	
<b>Client ID No.:</b>	RE-3	RS-9	RE-2	PW-1	<b>MRL</b>
<b>Compounds:</b>					
Benzene	17	4.2	7.4	<0.3	0.3
Ethylbenzene	0.36	0.69	0.43	<0.3	0.3
Toluene	1.2	1.2	<0.3	<0.3	0.3
Xylenes	1.7	0.74	4.1	<0.5	0.5

**George Havallas**  
**Laboratory Director**



**LABORATORY ANALYSIS RESULTS**

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

AA Project No.: A135054-95  
Date Received: 06/25/99  
Date Reported: 07/04/99  
Units: ug/L

Date Sampled:	06/22/99	06/22/99	06/22/99	06/22/99	
Date Analyzed:	06/28/99	06/28/99	06/28/99	06/28/99	
AA ID No.:	90043	90044	90045	90046	
Client ID No.:	RE-4	RS-10	RS-8	RS-11	MRL
<b>Compounds:</b>					
Benzene	23	<0.3	0.39	89	0.3
Ethylbenzene	<0.3	<0.3	<0.3	3.3	0.3
Toluene	1.5	<0.3	<0.3	2.9	0.3
Xylenes	2.4	<0.5	<0.5	0.91	0.5

  
George Havalias  
Laboratory Director



**LABORATORY ANALYSIS RESULTS**

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

AA Project No.: A135054-95  
Date Received: 06/25/99  
Date Reported: 07/04/99  
Units: ug/L

Date Sampled:	06/22/99	06/22/99	06/22/99	06/22/99	
Date Analyzed:	06/28/99	06/28/99	06/28/99	06/28/99	
AA ID No.:	90047	90048	90049	90050	
Client ID No.:	RE-6	RE-7	RE-5	RE-1	MRL
<b>Compounds:</b>					
Benzene	11	2100	<0.3	14	0.3
Ethylbenzene	<0.3	4.6	<0.3	<0.3	0.3
Toluene	1.9	16	<0.3	0.98	0.3
Xylenes	3.9	48	<0.5	8.1	0.5

George Havallas  
Laboratory Director



**LABORATORY ANALYSIS RESULTS**

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

AA Project No.: A135054-95  
Date Received: 06/25/99  
Date Reported: 07/04/99  
Units: ug/L

Date Sampled:	06/22/99	
Date Analyzed:	06/28/99	
AA ID No.:	90051	
Client ID No.:	Trip Blank	
<b>Compounds:</b>		<b>MRL</b>
Benzene	<0.3	0.3
Ethylbenzene	<0.3	0.3
Toluene	<0.3	0.3
Xylenes	<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**

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

**AA Project No.:** A135054-95  
**Date Received:** 06/25/99  
**Date Reported:** 07/04/99  
**Units:** ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
90039	RE-3	06/22/99	06/28/99	340	5
90040	RS-9	06/22/99	06/28/99	<5	5
90041	RE-2	06/22/99	06/28/99	4500	5
90042	PW-1	06/22/99	06/28/99	53	5
90043	RE-4	06/22/99	06/28/99	1400	5
90044	RS-10	06/22/99	06/28/99	<5	5
90045	RS-8	06/22/99	06/28/99	62	5
90046	RS-11	06/22/99	06/28/99	6.8	5
90047	RE-6	06/22/99	06/28/99	140	5
90048	RE-7	06/22/99	06/28/99	170	5
90049	RE-5	06/22/99	06/28/99	200	5
90050	RE-1	06/22/99	06/28/99	260	5

MRL: Method Reporting Limit  
<: Not detected at or above the value of the concentration indicated.

**George Havalias**  
**Laboratory Director**



**LABORATORY QA/QC REPORT**

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

**AA ID No.:** 89983  
**Project No.:** N/A  
**AA Project No.:** A135054-95  
**Date Analyzed:** 06/28/99  
**Date Reported:** 07/04/99

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	410	82	420	84	2	59 - 149

**George Havallas**  
**Laboratory Director**



**LABORATORY QA/QC REPORT**

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

**AA ID No.:** 89983  
**Project No.:** N/A  
**AA Project No.:** A135054-95  
**Date Analyzed:** 06/28/99  
**Date Reported:** 07/04/99

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Benzene	19.96	100	20.3	101	1	65 - 135
Ethylbenzene	20.57	103	20.3	102	1	77 - 123
Toluene	20.09	100	20.2	101	1	66 - 134
Xylenes	20.86	104	21.1	106	2	73 - 127

**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: 6-22-99

PAGE 1 OF 4

AA Client <u>T.O.C</u>	Phone <u>562/921-3581</u>	Sampler's Name <u>SEEDOR P</u>
Project Manager <u>JEFF SURYAKASUMI</u>	P.O. No.	Sampler's Signature <u>[Signature]</u>
Project Name <u>Q.U.S.</u>	Project No.	Project Manager's Signature

Job Name and Address <u>2504 CASTRO VALLEY Blvd. CASTRO VALLEY, 94546</u>						ANALYSIS REQUIRED										Test Requirements				
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	Detection Limits	Test Name	TPGT	ARPEY	MURBE										
90039	RE-3	6.22.99	17:40	WATER	3			X	X	X										
90040	RS-9		17:50		3			X	X	X										
90041	RE-2		18:00		3			X	X	X										
90042	PW-1		18:05		3			X	X	X										
90043	RE-4		18:10		3			X	X	X										
90044	RS-10		18:20		3			X	X	X										
90045	RE-8		18:30		3			X	X	X										
90046	RS-11		18:40		3			X	X	X										
90047	RE-6		18:50		3			X	X	X										
90048	RE-7		19:00		3			X	X	X										
90049	RE-5		19:05		3			X	X	X										
90050	RE-1		19:10		3			X	X	X										
90051	TRID BLANK		7:30		2			X	X											

<b>SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB</b>		Relinquished by: <u>[Signature]</u>	Date	Time	Received by:
Sample Intact	Yes <u>✓</u> No			17:00	CA. OVERNIGHT
Sample Properly Cooled	Yes <u>✓</u> No	Relinquished by: CA. OVERNIGHT	Date	Time	Received by:
Sample Accepted	Yes <u>✓</u> No		6/25/99	17:30	Mark. Bakhaya
If Not Why:		Relinquished by:	Date	Time	Received by:
AA Project No.	<u>A135054-95</u>	Relinquished by:	Date	Time	Received by:



# APPENDIX C



LABORATORY ANALYSIS RESULTS

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

AA Project No.: A135054-94 ✓  
Date Received: 05/06/99  
Date Reported: 05/12/99  
Units: ppmV

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
87346	Inlet	05/05/99	05/06/99	<5	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: Vapor  
Method: EPA 8020 (BTEX)

AA Project No.: A135054-94  
Date Received: 05/06/99  
Date Reported: 05/12/99  
Units: ppmV

---

Date Sampled:	05/05/99	
Date Analyzed:	05/06/99	
AA ID No.:	87346	
Client ID No.:	Inlet	MRL
<b>Compounds:</b>		
Benzene	<0.1	0.1
Ethylbenzene	<0.1	0.1
Toluene	0.13	0.1
Xylenes	<0.1	0.1

---

MRL: Method Reporting Limit

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

George Havalias  
Laboratory Director



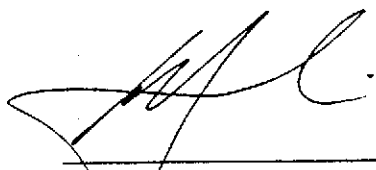
LABORATORY ANALYSIS RESULTS

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

AA Project No.: A135054-94  
Date Received: 05/06/99  
Date Reported: 05/12/99  
Units: ppmv

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
87346	Inlet	05/05/99	05/06/99	<1	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: 05.05-99  
PAGE 1 OF 4

(818) 998-5547 (818) 998-5548 1-800-533-TEST 1-800-533-8378 FAX (818) 998-7258

AA Client <b>THRIFTY OIL CO.</b>	Phone <b>562/971-3787</b>	Sampler's Name <b>SURBANT P.</b>
Project Manager <b>JEFF SURYAKUSUMA</b>	P.O. No.	Sampler's Signature <b>[Signature]</b>
Project Name	Project No.	Project Manager's Signature

Job Name and Address						ANALYSIS REQUIRED										Test Requirements			
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	Detection Limits	Test Name												
<b>87346</b>	<b>INLET</b>	<b>05.05.99</b>	<b>7:30</b>	<b>AIR</b>	<b>1 BAG</b>		<b>TPH</b>	<b>BTEX</b>	<b>MTBE</b>										
							X	X	X										
/																			

IF MTBE DETECTION CONFORM WITH 8260 --

<b>SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB</b>				Relinquished by:	Date	Time	Received by:
Samples Intact	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		<b>[Signature]</b>			<b>CA. OVERMIGHT</b>
Samples Properly Cooled	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		<b>CA. OVERMIGHT</b>	<b>5/6/99</b>	<b>1012</b>	<b>[Signature]</b>
Samples Accepted	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		Relinquished by:	Date	Time	Received by:
If Not Why:				Relinquished by:	Date	Time	Received by:
AA Project No.	<b>A135059-94</b>			Relinquished by:	Date	Time	Received by: