

THRIFTY OIL CO.

November 1, 1999

O.13508

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
3rd Quarter 1999, Status Report

Dear Mr. Seery:

Presented herewith is the Third 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, regarding this report please contact Raymond C. Friedrichsen or me at (562) 921-3581.

Sincerely,



Chris Panaitescu
General Manager
Environmental Affairs

c: File



13539 E. Foster Rd., Santa Fe Springs, CA 90670-0138 • (562) 923-9876

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ENVIRONMENTAL PROTECTION

THRIFTY OIL CO.

October 29, 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
3rd Quarter 1999, Status Report

Dear Mr. Seery:

Presented herein is the Third 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 November 8, 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 September , 1999 is presented in **Table 1**. In general, groundwater occurs under water table conditions beneath the station at depths ranging from 2.63 feet below ground surface (bgs) in monitoring wells RE-3 to 9.85 feet bgs in monitoring well RS-8, as measured on September 8, 1999. Field monitoring reports are included in **Appendix A**. Groundwater elevation contour map based on the September 8, 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 0.05 to 0.08 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, PW-2, RE-1 through RE-7, and RS-8 through RS-11 on September 8, 1999. Groundwater samples were obtained by EMC and delivered in a chilled state in an ice chest following strict Chain-of-Custody procedures to the 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; MTBE was verified by EPA method 8260. Total petroleum hydrocarbons (TPH-g) were analyzed by EPA method 8015 modified for gasoline. 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**. This quarter, monitoring wells PW-1, RE-6, RS-9, RS-10, and RS-11 met drinking water standards with respect to petroleum hydrocarbon concentrations.

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 January 1991. 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 along with additional fuel provided by an existing propane tank. The extracted water is treated by the spray aerator and polished by carbon. The engine is equipped with a catalytic converter for the reduction of exhaust emission.

Water

As of March 15, 1999, the last time the water treatment operated approximately 27,922 gallons of water had been processed by the unit and discharged to the local sanitary sewer. The system was non-operational during the 3rd quarter 1999, because the system's compressor needed repairs or replacement. A summary of the tabulation data for the water treatment system is presently being prepared.

Vapor

Wells RE-1, RE-3, RE-6, and RE-7 are connected to the vapor remediation system. 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 225 hours, bringing the total of operation hours to 22,513. Field status reports for the vapor monitoring system are located in **Appendix A**. The system vapor analytical reports are presented in **Appendix C**. **Table 2** is a summary of the vapor extraction operating data. **Table 3** presents the laboratory analytical results of inlet vapor samples.

Starting 3rd Quarter 1999, Thrifty collected vapor sampling from the well head of each of the vapor wells connected to the system (RE-1, RE-3, RE-6, and RE-7). These vapor samples have been analyzed by a state certified laboratory for Total Petroleum Hydrocarbons (TPH-g) by EPA method 8015, volatile organic hydrocarbons (BTEX and MTBE) by EPA method 8020. The vapor analytical results for each well-head is presented in **Appendix D**.

Other Activities

Groundwater monitoring, gauging, and sampling at this site will continue on a quarterly basis.

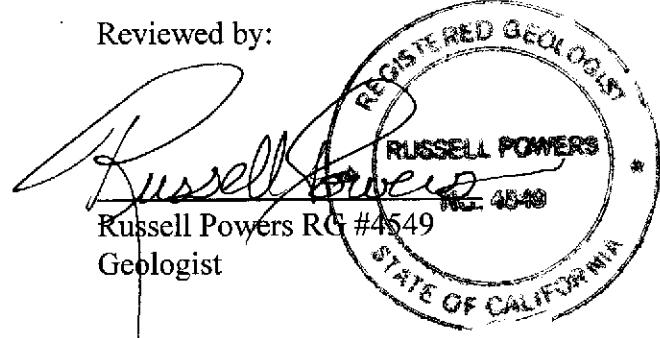
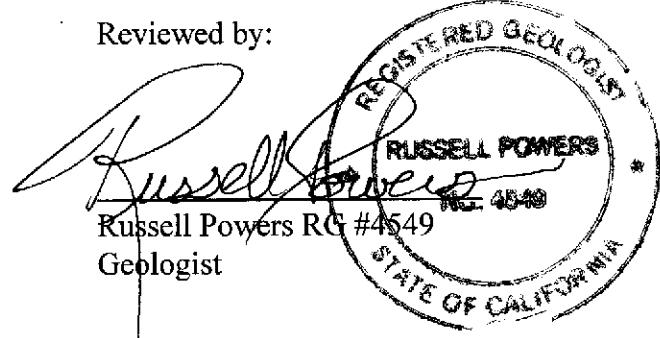
Thrifty will continue to monitoring and report the status of the vapor extraction and groundwater treatment system (SAVE-RSI).

Written by:



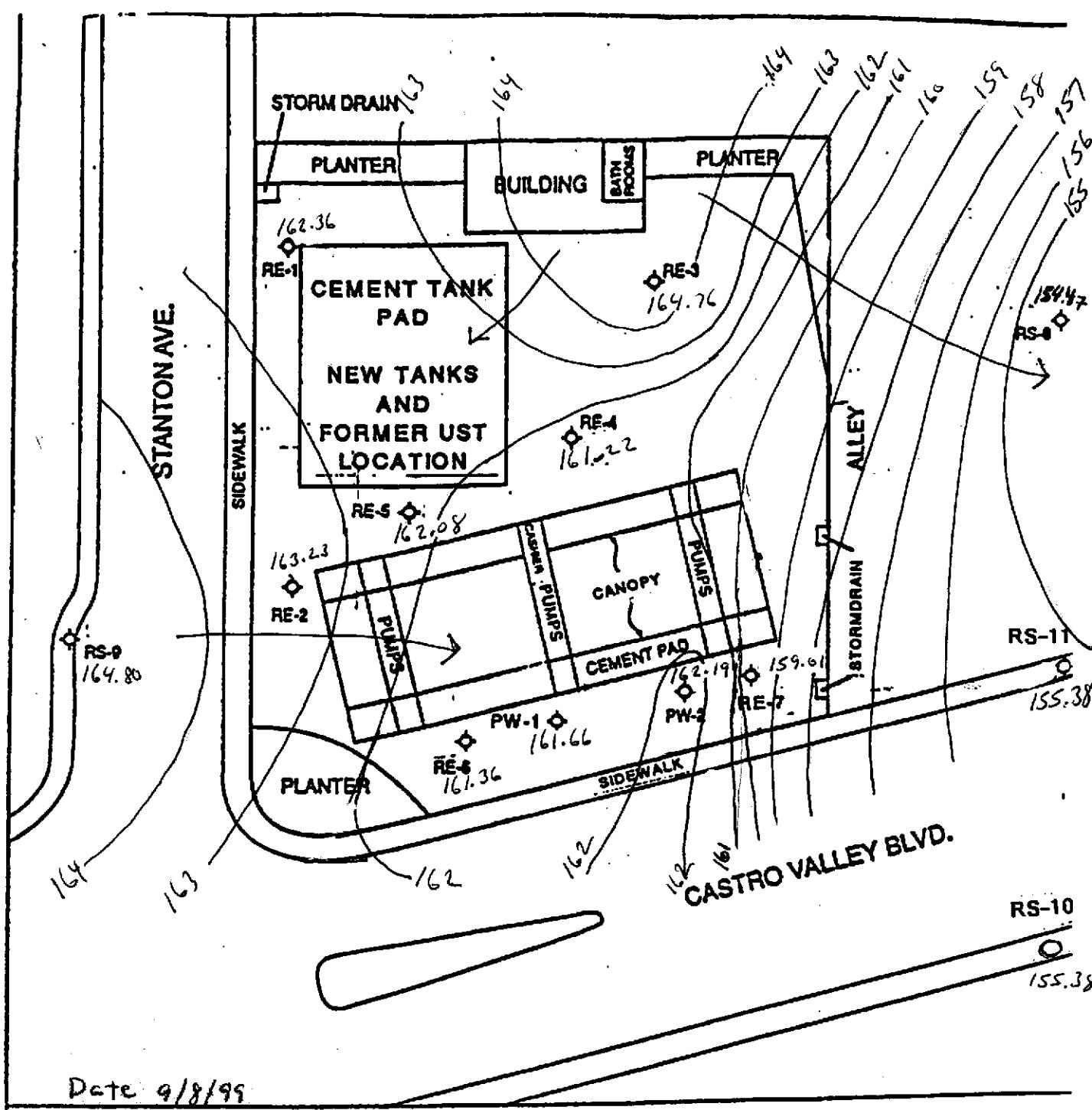
Raymond C. Friedrichsen, REA
Project Manager
Hydrogeologist

Reviewed by:

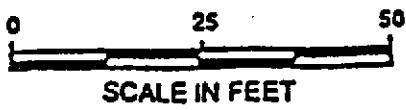


RUSSELL POWERS
RG #4549
Geologist
STATE OF CALIFORNIA

FIGURES

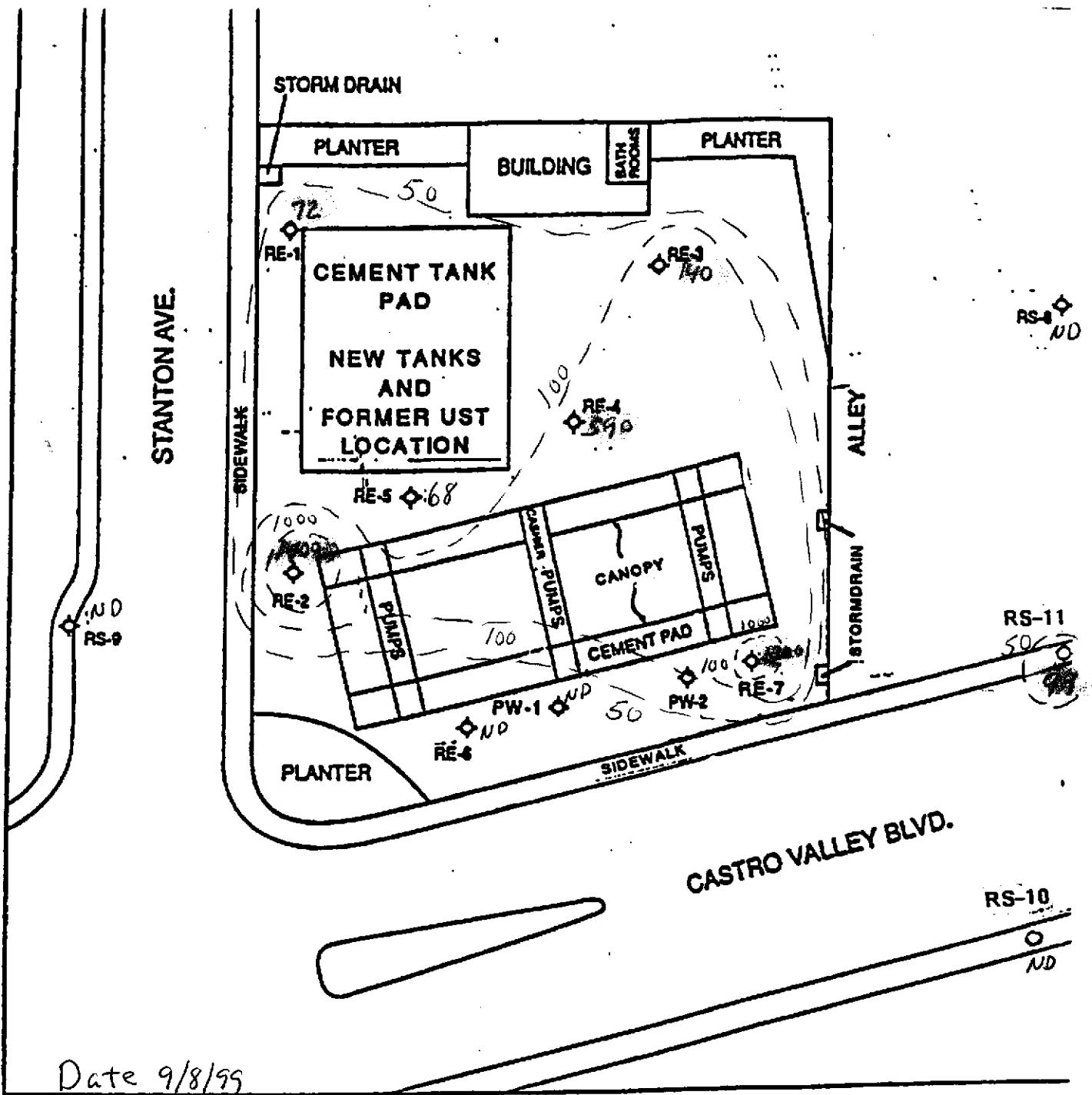


GROUNDWATER CONTOUR MAP
THRIFTY OIL CO. #054
CASTRO VALLEY, CALIFORNIA
Prepared for
THRIFTY OIL CO.
SANTA FE, SPRINGS
CALIFORNIA



◆ EXISTING MONITORING WELL

FIGURE 1



Date 9/8/99

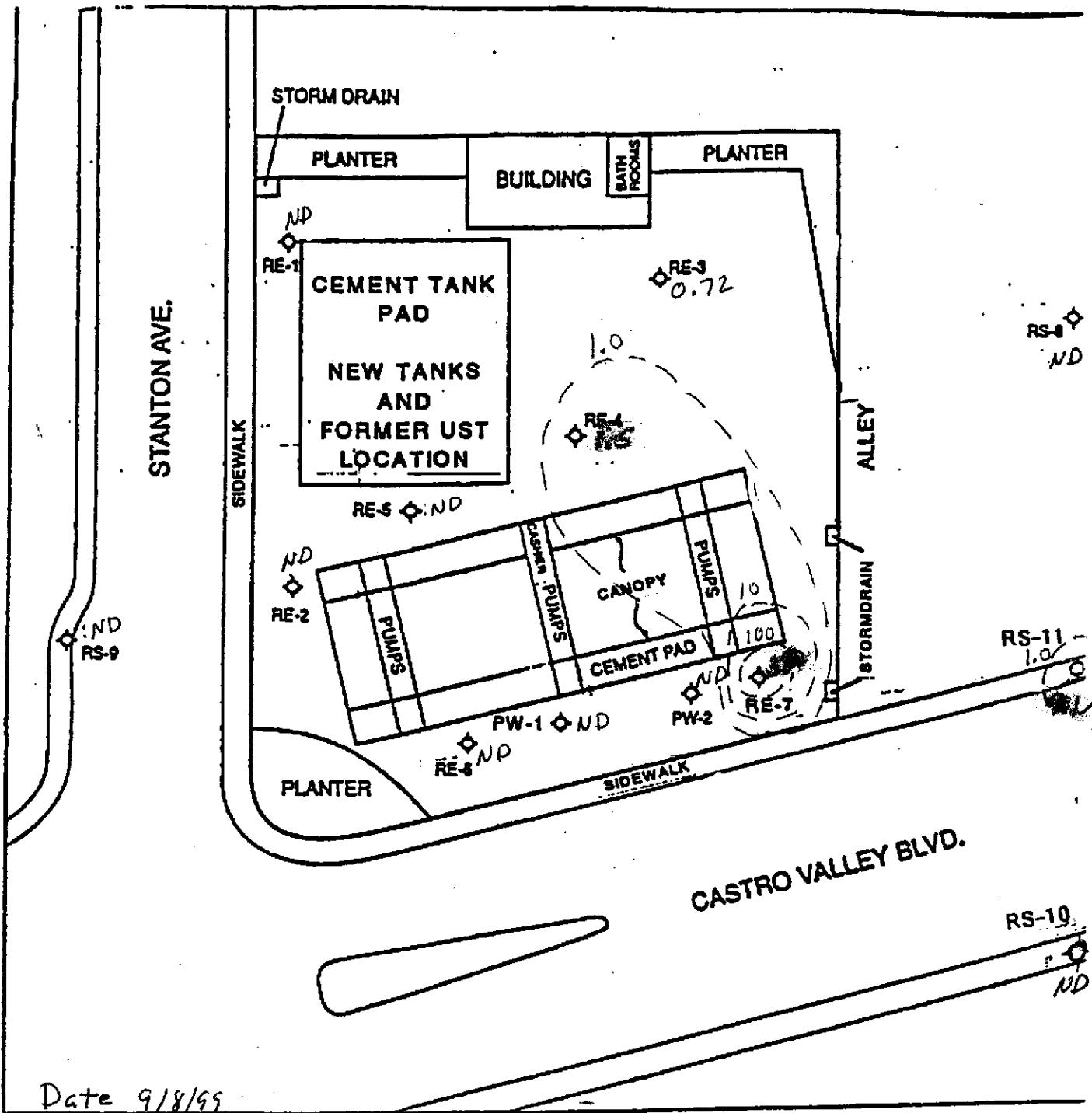
GROUNDWATER ISOCONCENTRATION MAP

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



◊ EXISTING MONITORING WELL

FIGURE 2



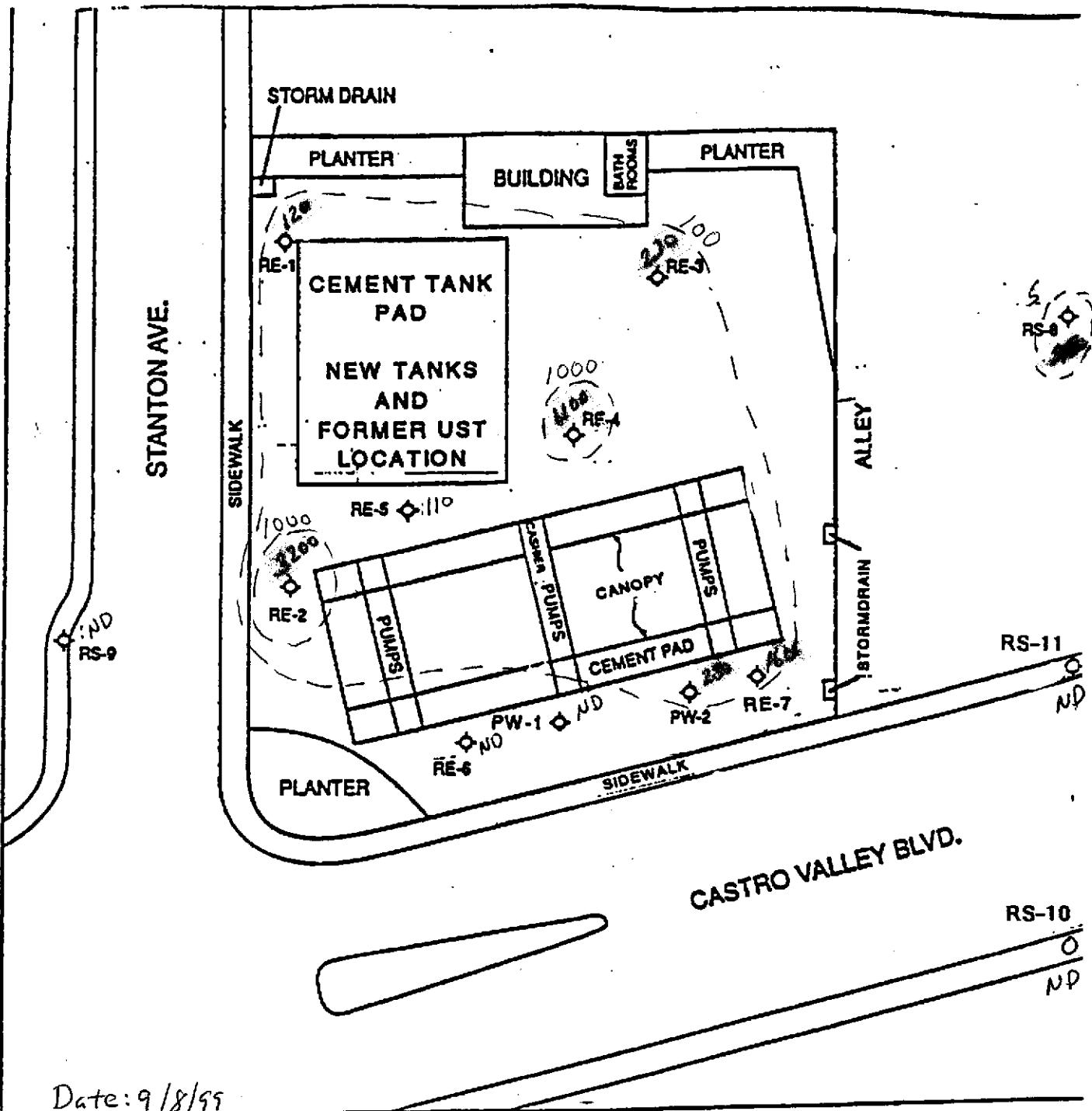
BENZENE ISOCONCENTRATION MAP PPB

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)	GROUNDRATE ELEVATION (feet)
	TOTAL BENZENE (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)					
MONITORING WELL: HW-1										
04/11/88	-	-	-	-	-	-	-	-	-	-
04/09/90	230,000	600	2,700	1,000	16,000	-	5.10	NP	0.00	166.46
10/30/90	35,000	240	970	240	3,580	-	6.17	NP	0.00	166.46
01/18/91	37,000	43	140	42	1,600	-	6.28	NP	0.00	166.46
02/12/91	45,000	99	130	25	700	-	5.88	NP	0.00	166.46
03/20/91	1,900	0.43	ND	ND	2.8	-	4.75	NP	0.00	166.46
05/22/91	41,000	600	730	250	3,800	-	5.10	NP	0.00	166.46
06/19/91	-	-	-	-	-	-	5.61	NP	0.00	166.46
07/17/91	-	-	-	-	-	-	5.53	FILM	0.00	166.46
08/07/91	-	-	-	-	-	-	5.67	FILM	0.00	166.46
09/24/91	-	-	-	-	-	-	5.57	FILM	0.00	166.46
10/23/91	-	-	-	-	-	-	6.53	FILM	0.00	166.46
11/06/91	-	-	-	-	-	-	5.85	FILM	0.00	166.46
12/04/91	-	-	-	-	-	-	5.91	FILM	0.00	166.46
01/29/92	-	-	-	-	-	-	5.43	FILM	0.00	166.46
02/26/92	-	-	-	-	-	-	5.54	FILM	0.00	166.46
03/19/92	ND	ND	ND	ND	ND	-	5.47	NP	0.00	166.46
04/22/92	-	-	-	-	-	-	5.62	FILM	0.00	166.46
05/21/92	1,300	19	2.9	0.7	58	-	6.21	NP	0.00	166.46
06/25/92	-	-	-	-	-	-	6.94	NP	0.00	166.46
07/30/92	-	-	-	-	-	-	5.90	FILM	0.00	166.46
08/20/92	-	-	-	-	-	-	7.12	FILM	0.00	166.46
09/30/92	3,400	57	ND	26	240	-	6.42	NP	0.00	166.46
12/23/92	-	-	-	-	-	-	5.56	FILM	0.00	166.46
03/10/93	-	-	-	-	-	-	5.65	FILM	0.00	166.46
06/09/93	400	<0.5	1.1	<1.0	<1.0	-	5.30	NP	0.00	166.46
09/14/93	180	3.7	3.2	1.5	14	-	5.43	NP	0.00	166.46
12/14/93	<50	<0.3	<0.3	<0.3	<0.5	-	4.65	NP	0.00	166.46
03/02/94	<50	<0.3	<0.3	<0.3	<0.5	-	5.43	NP	0.00	166.46
06/06/94	330	1.3	<0.3	0.88	9.8	-	4.70	NP	0.00	166.46
09/06/94	1,100	67	<0.3	<0.3	24	-	6.48	NP	0.00	166.46
12/07/94	<50	<0.3	<0.3	<0.5	<0.5	-	5.22	NP	0.00	166.46
03/08/95	<100	<0.5	<0.5	<0.5	<1	-	6.94	NP	0.00	166.46
06/15/95	260	0.8	0.6	<0.5	3.2	-	5.72	NP	0.00	166.46

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)	GASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ppm)	BENZENE (ppm)	TOLUENE (ppm)	EthylBenzene (ppm)	XYLOL (ppm)	MTBE (ppm)					
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
09/08/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.80	NP	0.00	166.46	161.66
<hr/>											
MONITORING WELL PW2											
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

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 (mg/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)						
02/26/92	-	-	-	-	-	5.90	FILM	0.00	166.18	160.28	
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 GROUNDAWTER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)	
	TPH (ug/l.)	BENZENE (ug/l.)	TOLEUNE (ug/l.)	EthyBenzene (ug/l.)	XYLENE (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
09/08/99	100	<0.3	<0.3	<0.3	<0.5	230	3.99	NP	0.00	166.18	162.19
MONITORING WELL #054											
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	38000	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

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)
	PPM mg/L	BENZENE (mg/L)	TOLUENE (mg/L)	EthylBenzene (mg/L)	XYLENE (mg/L)	MTBE (mg/L)					
06/06/94	-	-	-	-	-	-	2.16	FILM	0.00	166.82	164.66
09/06/94	74,000	3,300	3,900	1,200	6,100	-	5.00	NP	0.00	166.82	161.82
12/07/94	30,000	3,200	2,900	1,200	4,600	-	4.10	NP	0.00	166.82	162.72
03/08/95	28,000	4,200	2,300	810	7,800	-	3.92	NP	0.00	166.82	162.90
06/15/95	-	-	-	-	-	-	-	-	-	-	-
09/05/95	-	-	-	-	-	-	4.78	FILM	0.00	166.82	162.04
11/21/95	-	-	-	-	-	-	4.82	NP	0.00	166.82	162.00
03/11/96	270	2.4	6.0	4.5	19	-	3.32	NP	0.00	166.82	163.50
06/19/96	3,000	570	63	<1.5	400	-	4.20	NP	0.00	166.82	162.62
09/16/96	7,700	440	69	<1.5	680	230	4.68	NP	0.00	166.82	162.14
12/10/96	52	<0.3	<0.3	<0.3	<0.5	120	4.93	NP	0.00	166.82	161.89
03/12/97	8,700	180	5.4	40	1,100	130	4.10	NP	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	<20	4.55	NP	0.00	166.82	162.27
12/09/97	<50	<0.3	0.44	<0.3	<0.5	<20	5.30	NP	0.00	166.82	161.52
03/03/98	1,100	13	0.51	<0.3	<0.5	220	4.55	NP	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	180	6.05	NP	0.00	166.82	160.77
12/30/98	<50	1.1	<0.3	<0.3	<0.5	<5	5.65	NP	0.00	166.82	161.17
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	5.68	NP	0.00	166.82	161.14
06/22/99	880	14	0.98	<0.3	8.1	260	4.95	NP	0.00	166.82	161.87
09/08/99	72	<0.3	<0.3	<0.3	<0.5	120	4.46	NP	0.00	166.82	162.36
MONITORING WELL #R-2											
04/11/88	-	-	-	-	-	-	-	-	-	-	-
04/09/90	850	5.8	0.5	4.8	1.1	-	4.90	NP	0.00	167.19	162.29
10/30/90	440	2.8	0.91	13	3.14	-	5.34	NP	0.00	167.19	161.85
01/18/91	1,100	8.4	3.1	ND	10	-	4.90	NP	0.00	167.19	162.29
02/12/91	1,100	5.9	ND	1.77	ND	-	4.94	NP	0.00	167.19	162.25
03/20/91	550	4.3	ND	ND	ND	-	4.32	NP	0.00	167.19	162.87
05/22/91	1,000	5.3	3.6	4.4	8.9	-	4.43	NP	0.00	167.19	162.76
06/19/91	700	2.1	1.4	3.8	3.5	-	6.43	NP	0.00	167.19	160.76
07/17/91	880	12	8.0	4.3	28	-	4.75	NP	0.00	167.19	162.44
08/07/91	-	3.8	1.6	ND	ND	-	4.87	NP	0.00	167.19	162.32

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)	CASTING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	DEPTH (feet)	BENZENE (ng/L)	TOLUENE (ng/L)	EthylBenzene (ng/L)	XYLENE'S (ng/L)	YTB					
09/24/91	670	7.2	7.1	ND	23	-	5.50	NP	0.00	167.19	161.69
10/23/91	2,700	52	60	22	130	-	5.63	NP	0.00	167.19	161.56
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

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)	Dip-Benzene (ug/L)	XYLENES (ug/L)	o-Xylene (ug/L)					
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
12/30/98	460	0.92	< 0.3	< 0.3	< 0.5	[REDACTED]	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
06/22/99	2,900	7.4	< 0.3	0.43	4.1	[REDACTED]	3.70	NP	0.00	167.19	163.49
09/08/99	1,400	< 3	< 3	< 3	< 5	[REDACTED]	3.96	NP	0.00	167.19	163.23
MONITORING WELL: WEL-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	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

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	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)					
09/14/93	40,000	2,900	1,500	180	6,900	-	7.30	NP	0.00	167.39
12/14/93	-	-	-	-	-	-	5.95	NP	0.00	167.39
03/02/94	-	-	-	-	-	-	5.08	NP	0.00	167.39
06/06/94	-	-	-	-	-	-	6.35	FILM	0.00	167.39
09/06/94	11,000	260	26	<6.6	1,000	-	7.50	NP	0.00	167.39
12/07/94	-	-	-	-	-	-	5.48	FILM	0.00	167.39
03/08/95	-	-	-	-	-	-	5.18	FILM	0.00	167.39
06/15/95	-	-	-	-	-	-	-	-	-	-
09/05/95	-	-	-	-	-	-	6.84	FILM	0.00	167.39
11/21/95	10,000	210	<3	4.5	330	-	7.38	NP	0.00	167.39
03/11/96	1,600	640	15	10	46	-	4.85	NP	0.00	167.39
06/19/96	2,100	280	<3	<3	120	-	5.80	NP	0.00	167.39
09/16/96	140	<0.3	<0.3	<0.3	<0.5	110	4.50	NP	0.00	167.39
12/10/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.35	NP	0.00	167.39
03/12/97	<50	<0.3	<0.3	<0.3	<0.5	<20	3.48	NP	0.00	167.39
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	<20	3.10	NP	0.00	167.39
12/09/97	3,600	1,000	1,000	<6	570	260	4.55	NP	0.00	167.39
03/03/98	2,800	20	0.65	0.39	16	██████████	2.30	NP	0.00	167.39
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	NP	0.00	167.39
12/30/98	<50	1.1	<0.3	<0.3	<0.5	<5	4.55	NP	0.00	167.39
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.15	NP	0.00	167.39
06/22/99	670	17	1.2	0.36	1.7	340	3.85	NP	0.00	167.39
09/08/99	140	0.72	<0.3	<0.3	<0.5	230	2.63	NP	0.00	167.39
NON-TOXIC COMPOUNDS										
04/11/88	15,000	12,000	8,000	1,000	2,700	-	-	-	-	-
04/09/90	-	-	-	-	-	-	-	-	-	-
10/30/90	87,000	7,200	10,000	1,600	12,900	-	7.04	NP	0.00	166.94
01/18/91	70,000	5,000	5,400	790	9,900	-	11.62	NP	0.00	166.94
02/12/91	87,000	5,200	2,800	240	11,000	-	11.63	NP	0.00	166.94
03/20/91	6,500	370	230	17	670	-	11.61	NP	0.00	166.94
05/22/91	-	-	-	-	-	-	10.30	FILM	0.00	166.94

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDBRER	DEPTH TO PRODUCT	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (mg/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)					
06/19/91	-	-	-	-	-	-	11.10	FILM	0.00	166.94	155.84
07/17/91	-	-	-	-	-	-	6.20	FILM	0.00	166.94	160.74
08/17/91	-	-	-	-	-	-	8.15	FILM	0.00	166.94	158.79
09/24/91	-	-	-	-	-	-	10.40	FILM	0.00	166.94	156.54
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	-	-	-	-	-

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)	CASTIC ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	PhenylBenzene (mg/L)	XYLENE (mg/L)					
09/10/97	<50	<0.3	<0.3	<0.3	<0.5	<20	5.40	NP	0.00	166.94
12/09/97	1,400	330	2.3	<0.3	1.5	2,500	4.60	NP	0.00	166.94
03/03/98	3,000	400	0.61	0.5	97	3,300	5.05	NP	0.00	166.94
07/08/98	650	<0.3	<0.3	<0.3	<0.5	1,200	-	-	-	-
09/10/98	2,700	<0.3	<0.3	<0.3	1.4	2,500	4.60	NP	0.00	166.94
12/30/98	530	<0.3	<0.3	<0.3	<0.5	1,200	4.20	NP	0.00	166.94
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	3.85	NP	0.00	166.94
06/22/99	1,200	23	1.5	<0.3	2.4	1,400	3.90	NP	0.00	166.94
09/08/99	590	1.5	<0.6	<0.6	<1	1,100	5.72	NP	0.00	166.94
										161.22
MONITORING WELL DATA										
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
10/30/90	3,400	910	48	87	249	-	5.86	NP	0.00	166.51
01/18/91	1,400	180	8.6	0.52	48	-	4.40	NP	0.00	166.51
02/12/91	1,000	ND	ND	0.65	ND	-	4.76	NP	0.00	166.51
03/20/91	3,000	250	53	ND	110	-	5.08	NP	0.00	166.51
05/22/91	2,500	330	7.8	5.6	200	-	4.52	NP	0.00	166.51
01/19/91	2,000	59	1.6	5.1	110	-	4.39	NP	0.00	166.51
07/17/91	-	-	-	-	-	-	5.05	FILM	0.00	166.51
08/07/91	-	-	-	-	-	-	5.02	FILM	0.00	166.51
09/24/91	-	-	-	-	-	-	5.86	FILM	0.00	166.51
10/23/91	-	-	-	-	-	-	5.84	FILM	0.00	166.51
11/06/91	9,900	2,300	37	260	160	-	5.48	NP	0.00	166.51
12/04/91	4,500	1,000	27	ND	180	-	5.43	NP	0.00	166.51
01/29/92	600	6.1	2.3	ND	47	-	5.12	NP	0.00	166.51
02/26/92	500	5.4	2.7	1.2	14	-	4.93	NP	0.00	166.51
03/19/92	ND	1.7	1.1	ND	5.5	-	4.45	NP	0.00	166.51
04/22/92	1,600	240	2.2	ND	160	-	4.63	NP	0.00	166.51
05/21/92	1,200	410	37	ND	118	-	4.90	NP	0.00	166.51
06/25/92	ND	1.0	0.8	0.8	0.4	-	5.15	NP	0.00	166.51
07/30/92	ND	2.0	1.8	1.9	6.4	-	5.30	NP	0.00	166.51
08/20/92	300	1.7	3.3	0.7	12	-	5.44	NP	0.00	166.51
09/30/92	1,900	140	ND	19	35	-	5.73	NP	0.00	166.51
										160.78

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)
	Toluene (mg/L)	Benzene (mg/L)	Toluene (mg/L)	MethylBenzene (mg/L)	Xylenes (mg/L)	Styrene (mg/L)					
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
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	1,100	5.27	NP	0.00	166.51	161.24
03/12/97	2,000	600	59	5.1	54	1,100	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
09/08/99	68	<0.3	<0.3	<0.3	<0.5	110	4.43	NP	0.00	166.51	162.08

MONITORING WELLS - SITE 6

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

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

DATE SAMPLED	ANALYTICAL PARAMETERS					DEPTH TO GROUNDWATER (feet)	DEPTHS TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)	
	CHLOR. (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)						
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
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

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)	Chp/Benzene	XYLENE (ug/l)	MTBE (ug/l)					
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
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
09/08/99	<50	<0.3	<0.3	<0.3	<0.5	<5	5.15	NP	0.00	166.51	161.36

MONITORING WELL DATA											
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

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)	GASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	PH (0-14)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLdINE (ug/L)	o-xylene (ug/L)					
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
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	-	5.92	NP	0.00	166.04	160.12
03/12/97	660	0.31	<0.3	<0.3	<0.5	130	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	-	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
09/08/99	1,700	380	<3	<3	13	160	7.03	NP	0.00	166.04	159.01

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

DATE SAMPLED	DEP. (ft)	BENZENE (ppm)	ANALYTIC PARAMETERS	TOLUENE (ppm)	TRICHLOROETHANE (ppm)	XYLENE (ppm)	MTBE (ppm)	DEPTH TO GROUNDWATER (feet)	DISPERSED PRODUCT (ppm)	PRODUCT THICKNESS (inch)	CASTING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
MONITORING WELLS (RS-1)												
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
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

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 ($\mu\text{g/L}$)	BENZENE ($\mu\text{g/L}$)	TOLUENE ($\mu\text{g/L}$)	1,000/Benzene ($\mu\text{g/L}$)	XYLENE ($\mu\text{g/L}$)					
12/09/97	<50	1.7	2.1	<0.3	1.4	82	9.98	NP	0.00	164.32
03/03/98	<50	<0.3	<0.3	<0.3	<0.5	84	8.33	NP	0.00	164.32
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
12/30/98	<50	1.3	1.5	<0.3	0.86	19	11.35	NP	0.00	164.32
03/15/99	<50	<0.3	<0.3	<0.3	<0.5	9.6	9.85	NP	0.00	164.32
06/22/99	66	0.39	<0.3	<0.3	<0.5	62	9.90	NP	0.00	164.32
09/08/99	<50	<0.3	<0.3	<0.3	<0.5	25	9.85	NP	0.00	164.32

MONITORING WELL #RS-9

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

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)
	TFO (ppm)	BENZENE (ppm)	TOULENE (ppm)	XYLOL-2-ME (ppm)	ACETONE (ppm)	MTBE (ppm)					
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
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
09/08/99	<50	<0.3	<0.3	<0.3	<0.5	<5	2.71	NP	0.00	167.51	164.80
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MONITORING WELLS (MWS)											
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

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)	GROUNWDWATER ELEVATION (feet)
	TPH (ppm)	BENZENE (ppm)	TOLUENE (ppm)	Phenol/Benzene (ppm)	XYLENE (ppm)	MTBE (ppm)					
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
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
09/08/99	<50	<0.3	<0.3	<0.3	<0.5	<5	7.51	NP	0.00	162.89	155.38
MONITORING WELLS ASSUMED											
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	-	-	-	-	-	-	-	-	-	-	-

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 (mg/L)	BENZENE (µg/L)	TOLEUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)					
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
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
09/08/99	99	9.1	0.37	<0.3	<0.5	<5	7.90	NP	0.00	163.28	155.38

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

TABLE 2
Vapor Extraction Operating Data
Thrifty Oil Station # 054, CASTRO VALLEY, CA

Date	Duration (hrs)	Average Flow (cm)	Average PID Conc. (ppmv)	Period (hrs)	System off
Jan-91	0	30	est. 10,000	0.0	0
Feb-91	50	30	est. 10,000	204.2	204
Mar-91	49	5	est. 10,000	33.4	238 System off 4/91 - 9/91
Oct-91	758	15	est. 10,000	1,548.0	1,786
Nov-91	3	14	est. 10,000	5.7	1,791
Dec-91	107	14	est. 10,000	203.9	1,995
Jan-92	129	14	est. 10,000	245.9	2,241
Feb-92	268	14	est. 10,000	510.8	2,752 System off 3/92 - 7/92
Aug-93	0	18	est. 10,000	0.0	2,752
Sep-93	153	17	est. 10,000	354.1	3,106
Oct-93	514	18	est. 10,000	1,259.6	4,366
Nov-93	421	18	est. 10,000	1,031.7	5,397
Dec-93	324	18	est. 10,000	794.0	6,191
Jan-94	608	18	est. 10,000	1,490.0	7,681
Feb-94	536	17	10,000	1,240.6	8,922
Mar-94	347	20	10,000	944.9	9,867
Apr-94	401	16	10,000	873.5	10,740
May-94	406	17	est. 10,000	939.7	11,680
Jun-94	511	16	10,000	1,113.1	12,793
Jul-94	165	15	10,000	337.0	13,130
Aug-94	56	16	est. 10,000	122.0	13,252
Sep-94	605	16	est. 10,000	1,317.9	14,570
Oct-94	214	15	est. 10,000	437.0	15,007
Dec-94	102	15	est. 10,000	208.3	15,215
Jan-95	86	12	est. 10,000	140.5	15,356
Feb-95	130	13	est. 10,000	230.1	15,586
Mar-95	104	15	est. 10,000	212.4	15,798
Apr-95	33	8	est. 10,000	35.9	15,834
May-95	396	16	est. 10,000	862.6	16,697
Jun-95	31	16	est. 10,000	67.5	16,765
Jul-95	398	16	est. 10,000	867.0	17,632
Aug-95	76	16	10,000	165.6	17,797
Sep-95	158	16	est. 10,000	344.2	18,141
Oct-95	95	14	10,000	181.1	18,322
Nov-95	31	16	est. 10,000	67.5	18,390
Jan-96	47	9	est. 10,000	57.6	18,447 Replaced hour meter (8930)
Feb-96	14	8	est. 10,000	15.2	18,463 System off 2/96 - 4/96
Apr-96	93	8	210	2.1	18,465
May-96	40	12	220	1.4	18,466
Jun-96	155	9	1,000	19.0	18,485
Jul-96	91	17	420	8.8	18,494
Aug-96	21	9	340	0.8	18,495
Sep-96	330	17	est. 340	26.0	18,521
Oct-96	52	7	est. 340	1.7	18,523
Dec-96	3	8	est. 340	0.1	18,523 System off 10/96 - 12/96
Apr-97	36	15	10,000	73.5	18,596 System off 1/97 - 4/97
May-97	220	15	9,800	440.3	19,037
Jun-97	631	11	est. 9,000	850.5	19,887 ~127 gal/s
Jul-97	49	12	est. 9,000	72.0	19,959
Aug-97	238	12	est. 9,000	350.0	20,309

TABLE 2
Vapor Extraction Operating Data
Thrifty Oil Station # 054, CASTRO VALLEY, CA

Date	Duration (hrs)	Average Flow (GPM)	Average PID Concentration (PPM)	Cumulative Volume (GAL)	Remark
Sep-97	186	16	est. 9,000	364.7	20,674
Oct-97	184	12	est. 9,000	270.6	20,944
Nov-97	132	17	est. 9,000	275.0	21,219
Dec-97	58	19	9,000	135.0	21,354
Jan-98	274	17	10,000	634.2	21,988
Feb-98	396	16	10,000	862.6	22,851
Mar-98	831	17	10,000	1,923.4	24,774
Apr-98	49	17	est. 10,000	113.4	24,888
May-98	251	16	10,000	546.8	25,435
Jun-98	347	17	10,000	803.1	26,238
Jul-98	682	16	est. 10,000	1,356	27,723
Sep-98	202	12	est. 10,000	330.0	28,053
Nov-98	188	12	est. 10,000	307.1	28,361
Dec-98	394	11	est. 10,000	590.1	28,951
Feb-99	991	10	2,800	377.8	29,328
Mar-99	583	13	210	21.7	29,350
Apr-99	311	13	est. 210	11.6	29,362
May-99	89	10	est. 210	2.5	29,364
Jun-99	995	10	4,100	29,920	~ 83 gals
Jul-99	70	10	est. 4,000	38.1	29,958
Aug-99	33	11	est. 4,000	19.8	29,978
Sept-99	122	12	est. 4,000	30.057	~ 11.9 gals

4486 gals

TABLE 3
Laboratory Analytical Results of Inlet Vapor Samples
Thrifty Oil Co. Station # 054, CASTRO VALLEY, CA

Date	Analytical Parameters (ug/m ³)						NIOSH Reference
	Toluene	Benzene	o-xylene	m,p-xylene	Total xylenes	Methyl benzene	
(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)	(ppmv)
5/15/97	-	0.36*	-	-	-	-	-
7/17/97	-	<0.1*	-	-	-	-	-
5/5/99	<5	<0.1	0.13	<0.1	<0.1	<0.1	<1
8/24/99	53	1.4	8.1	2.5	14	<1	
8/30/99	<5	<0.1	0.23	0.12	0.77	1.6	
9/14/99	2,200	11	36	11	55	9.9	

NOTE: *Unit of measure = ug, by NIOSH 1501 (Benzene)
 "-" = not analyzed

APPENDIX A



EARTH MANAGEMENT CO.

Environmental Remediation

DATE: 09-27-99

START UP / SHUT DOWN REPORT

STATION # 054

SYSTEM TYPE :

START UP REPORT:

SHUT DOWN REPORT:

Shut down system because no fuel (propane)
Call office for fill up and check for
leaking -

SIGNATURE:

S. G. Stetzer

EARTH MANAGEMENT CO.

Environmental Remediation


FIELD STATUS REPORT

054

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD						
WELLS	WATER			VAPORS		
	ON	RE 1	RE 3	OFF	R 6	R 7
ON						
OFF						

WELL MONITORING				RSI SYSTEM				
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM	estimated 18:348	
					HOURS	#	1248	DON'T MOP 12
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	14	
					TK REC TEMP	F	91	
					AIR TEMP	F	72	
					AIR FLOW	CFM	16	
					VAPOR FLOW	CFM	13	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H ₂ O	13	
					GAS METER		96.60	
					CATALYST IN	F		
					CATALYST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO ₂	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O ₂	%		
					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: Second time I find the valve turn off from propane tank 22.								
SERVICE TECHNICIAN	John	DATE 04-15-04		THRIFTY OIL CO #	014			



EARTH MANAGEMENT CO.

Environmental Remediation

65

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD										
WELLS	WATER					WELLS	VAPORS			
	RE1	RE2	RE3	RE4	RE5		RE6	RE7		
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	estimated 18,318	
					HOURS	#	12418	JONIE LIPPI
					ENGINE RPM	RPM	1900	
					ENGINE VACUUM	IN HG	14	
					TK REC TEMP	F	90	
					AIR TEMP	F	72	
					AIR FLOW	CFM	16	
					VAPOR FLOW	CFM	11	
					FUEL FLOW	CFM/H	20	
					WELL VACUUM	IN H2O	13	
					GAS METER	%	60	
					CATALYST IN	F		
					CATALYST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		
COMMENTS: RESTART ENGINE. VALVE FROM TANKS SPONTANEOUSLY OPEN TURH OFF ??								
SERVICE TECHNICIAN		DATE		THRIFTY OIL CO #		057		

COMMENTS: RESTART ENGINE. VALVE FROM TANKS SPONTANEOUSLY OPENED.
TURBINE OFF ??.

SERVICE TECHNICIAN

DATE 04-20-84 THRIFTY OIL CO # 254



EARTH MANAGEMENT CO.
Environmental Remediation

THRIFTY OIL CO. SS #054
2504 CASTRO VALLEY BLVD.
CASTRO VALLEY, CA 94546
DATE: 09-08-1999

PROJECT STATUS REPORT

F R E Q .	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	4.80				X			X	X	-							
M PW-2	3.99				X			X	X	-							
M RE-1	4.46				X			X	X	-							
M RE-2	3.96				X			X	X	-						X	
M RE-3	2.63				X			X	X	-						X	
M RE-4	5.72				X			X	X	-							
M RE-5	4.43				X			X	X	-							
M RE-6	5.15				X			X	X	-							
M RE-7	7.03				X			X	X	-						X	
M RS-8	9.85				X			X	-	X						X	
M RS-9	2.71				X			X	X	-	X						
M RS-10	7.51				X			X	X	-	X						
M RS-11	7.90				X			X	X	-	X						
SAVE SYSTEM WEEKLY																	
PARAMETER		U/M		DATA		PARAMETER		U/M		DATA							
TIME		AM/PM				AIR FLOW		CFM									
WORKING		YES/NO				VAPOR FLOW		CFM									
RESTARTED		YES/NO				FUEL FLOW		CFM/H									
HOURS		#				WELL VACUUM		IN H ₂ O									
ENGINE ROT.		RPM				LPG 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. <u>300</u> GALLONS																	
DATA RECORDED BY: <u>AJB</u> INPUT BY: AJB 02/05/97																	

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	55 054	Date:	9-08-99
Address:			
Personnel:	SERBAN	Weather:	SUNNY DAY
Well No:	RS-10	Equip:	BAILER

<u>Before Purging:</u>			
Total Well Depth: (ft.)	24.38	Well Diameter	2"
Depth to Water (ft)	7.51	Est. Purge Volume:	11

<u>Sampling Data:</u>							
Initial Turbidity:	Final Turbidity:						
Time	8:50	8:52	8:53	8:55	8:56	8:58	9:00
EC	1720	1720	1740	1710	1690	1620	1640
pH	6.11	6.09	6.07	6.09	6.06	6.01	5.98
Temp	71.1	70.9	70.7	70.5	70.3	70.1	69.8
Gal.	1	3	4	6	7	9	11
Time							
EC							
pH							
Temp							
Gal.							

<u>After Purging/Before Sample Collection</u>			
Depth to Water (ft.)	3.42	Total Well Depth(ft.)	24.38

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	20054	Date:	9-08-99
Address:			
Personnel:	SEBASTIEN	Weather:	SUNNY DAY
Well No:	RS-11	Equip:	RAILER

Before Purging:			
Total Well Depth: (ft.)	24.77	Well Diameter	2"
Depth to Water (ft.)	7.90	Est. Purge Volume:	11

Sampling Data:								
Initial Turbidity:	Final Turbidity:							
Time	9:05	9:07	9:08	9:10	9:11	9:13	9:15	
EC	1850	1830	1810	1770	1760	1760	1760	
pH	6.83	6.81	6.09	6.07	6.04	6.01	5.96	
Temp	71.1	70.4	70.7	70.5	70.3	70.1	69.8	
Gal.	1	3	4	6	7	9	11	
Time								
EC								
pH								
Temp								
Gal.								

After Purging/Before Sample Collection			
Depth to Water (ft.)	4.10	Total Well Depth(ft.)	24.77

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	BB 054	Date:	9-08-99
Address:			
Personnel:	SERBATO	Weather:	SUNNY DAY
Well No:	RS-8	Equip:	BAILEY

Before Purging:			
Total Well Depth: (ft.)	25.17	Well Diameter	24
Depth to Water (ft.)	9.85	Est. Purge Volume:	10

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	9:21	9:22	9:24	9:25	9:27	9:28	9:30
EC	1750	1730	1710	1690	1670	1660	1640
pH	6.16	6.14	6.11	6.09	6.11	6.07	6.03
Temp	71.2	70.8	70.7	70.4	70.5	70.3	70.1
Gal.	1	2	4	5	2	8	10
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	6.35	Total Well Depth(ft.)	25.17

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	3054	Date:	9-08-99
Address:			
Personnel:	SERDATA	Weather:	SUNNY DAY
Well No:	RE-7	Equip:	BARRIER

Before Purging:			
Total Well Depth: (ft.)	13.14	Well Diameter	4"
Depth to Water (ft)	7.03	Est. Purge Volume:	16

Sampling Data:							
Initial Turbidity:	Final Turbidity:						
Time	9:36	9:38	9:40	9:43	9:45	9:47	9:50
EC	1890	1850	1890	1860	1830	1810	1810
pH	6.14	6.11	6.09	6.07	6.04	6.01	6.03
Temp	21.1	20.9	20.9	20.7	20.4	20.1	20.8
Gal.	2	4	6	9	11	13	16
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	1.20	Total Well Depth(ft.)	13.14

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	32054	Date:	9-08-99
Address:			
Personnel:	SERBIA	Weather:	SUNNY DAY
Well No:	PW-2	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	14.32	Well Diameter	4"
Depth to Water (ft)	3.99	Est. Purge Volume:	27

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	9:56	10:00	10:04	10:08	10:12	10:16	10:20
EC	1980	1980	1980	1920	1840	1820	1860
pH	6.18	6.14	6.11	6.09	6.07	6.08	6.05
Temp	21.1	20.9	20.2	20.6	20.3	20.3	20.1
Gal.	3	7	11	15	19	23	27
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	2.15	Total Well Depth(ft.)	14.32

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	33 054	Date:	9-08-98
Address:			
Personnel:	3688024	Weather:	SUNNY DAY
Well No:	PW-1	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	13.97	Well Diameter	4"
Depth to Water (ft)	4.80	Est. Purge Volume:	24

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	10:29	10:32	10:36	10:39	10:43	10:46	10:50
EC	1970	1940	1960	1940	1920	1910	1890
pH	6.21	6.17	6.14	6.11	6.09	6.06	6.03
Temp	21.3	21.1	20.9	20.7	20.5	20.3	20.2
Gal.	3	6	10	13	17	20	24
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	2.32	Total Well Depth(ft.)	13.97

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	<u>33 054</u>	Date:	<u>9-08-99</u>
Address:			
Personnel:	<u>SERBAN</u>	Weather:	<u>SUNNY DAY</u>
Well No:	<u>RE-6</u>	Equip:	<u>BAILER</u>

Before Purging:

Total Well Depth: (ft.)	<u>13.58</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>5.15</u>	Est. Purge Volume:	<u>22</u>

Sampling Data:

Initial Turbidity:

Time	10:56	10:59	11:02	11:05	11:08	11:11	11:15
EC	2110	1930	1960	1920	1910	1930	1940
pH	6.11	6.07	6.03	5.96	5.91	5.87	5.83
Temp	71.1	70.8	70.6	70.4	70.2	70.4	70.1
Gal.	3	6	9	12	15	18	22

Final Turbidity:

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection

Depth to Water (ft)	<u>3.43</u>	Total Well Depth(ft).	<u>13.58</u>
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FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	<u>BB 054</u>	Date:	<u>9-08-99</u>
Address:			
Personnel:	<u>SERRA</u>	Weather:	<u>SUNNY DAY</u>
Well No:	<u>RE-2</u>	Equip:	<u>BAILER</u>

<u>Before Purging:</u>			
Total Well Depth: (ft)	<u>16.96</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>3.96</u>	Est. Purge Volume:	<u>34</u>

<u>Sampling Data:</u>							
Initial Turbidity:				Final Turbidity:			
Time	11:30	11:35	11:40	11:45	11:50	11:55	12:00
EC	2260	2270	2250	2230	2260	2190	2170
pH	6.68	6.06	6.04	6.04	6.01	5.96	5.93
Temp	71.1	70.8	70.7	70.5	70.3	70.1	69.9
Gal.	4	9	14	19	24	29	34
Time							
EC							
pH							
Temp							
Gal.							

<u>After Purging/Before Sample Collection</u>	
Depth to Water (ft.)	<u>2.15</u>
Total Well Depth(ft.)	<u>16.96</u>

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	00054	Date:	9-08-99
Address:			
Personnel:	SERBAN	Weather:	SUNNY DAY
Well No:	RE-5	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	18.21	Well Diameter	4"
Depth to Water (ft)	4.43	Est. Purge Volume:	36

Sampling Data:							
Initial Turbidity:	Final Turbidity:						
Time	12:09	12:14	12:19	12:24	12:29	12:34	12:40
EC	2330	2310	2310	2290	2280	2260	2240
pH	6.15	6.11	6.08	6.10	6.07	6.04	6.02
Temp	70.3	70.1	70.9	70.7	70.6	70.3	70.1
Gal.	5	10	15	20	25	30	36
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	2.52	Total Well Depth(ft.)	18.21

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	SD 054	Date:	9-08-99
Address:			
Personnel:	SERBON	Weather:	SUNNY DAY
Well No:	R5-9	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	14.97	Well Diameter	2 ⁴
Depth to Water (ft)	2.71	Est. Purge Volume:	8

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	12:43	12:44	12:45	12:46	12:47	12:48	12:50
EC	2230	2210	2190	2170	2150	2150	2130
pH	6.13	6.11	6.08	6.05	6.03	6.01	5.96
Temp	71.1	70.9	70.7	70.5	70.3	70.1	69.9
Gal.	1	2	3	4	5	6	8
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	1.14	Total Well Depth(ft.)	14.97

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	33054	Date:	9-08-99
Address:			
Personnel:	SERBATU	Weather:	SUNNY DAY
Well No:	RE-1	Equip:	BAILER

<u>Before Purging:</u>			
Total Well Depth: (ft.)	19.00	Well Diameter	4"
Depth to Water (ft)	4.46	Est. Purge Volume:	38

<u>Sampling Data:</u>							
Initial Turbidity:				Final Turbidity:			
Time	12:57	13:02	13:08	13:13	13:19	13:24	13:30
EC	2110	2020	2010	2020	2030	2010	2010
pH	6.14	6.11	6.09	6.07	6.09	6.06	6.04
Temp	21.3	21.1	20.9	20.7	20.5	20.3	20.1
Gal.	5	10	16	21	27	32	38
Time							
EC							
pH							
Temp							
Gal.							

<u>After Purging/Before Sample Collection</u>	
Depth to Water (ft.)	2.32
Total Well Depth(ft.)	19.00

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	→ 054	Date:	9-08-99
Address:			
Personnel:	SERBAN	Weather:	SUNNY DAY
Well No:	RE-4	Equip:	BAILER

<u>Before Purging:</u>			
Total Well Depth: (ft.)	14.52	Well Diameter	4"
Depth to Water (ft)	5.72	Est. Purge Volume:	23

<u>Sampling Data:</u>							
Initial Turbidity:				Final Turbidity:			
Time	13:39	13:42	13:45	13:49	13:52	13:55	14:00
EC	2300	2120	2110	1990	1970	1960	1930
pH	6.13	6.11	6.08	6.04	6.01	5.97	5.93
Temp	71.1	70.8	70.7	70.5	70.3	70.1	69.9
Gal.	3	6	9	13	16	19	23
Time							
EC							
pH							
Temp							
Gal.							

<u>After Purging/Before Sample Collection</u>			
Depth to Water (ft.)	3.18	Total Well Depth(ft.)	14.52

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	00054	Date:	9-08-99
Address:			
Personnel:	JERBAN	Weather:	SUNNY DAY
Well No:	RE-3	Equip:	BAILER

Before Purging:

Total Well Depth: (ft.)	17.55	Well Diameter	4"
Depth to Water (ft)	2.63	Est. Purge Volume:	39

Sampling Data:

Initial Turbidity:

Time	14:06	14:11	14:16	14:22	14:27	14:33	14:40
EC	2460	2480	2430	2420	2400	1980	1960
pH	6.09	6.02	6.03	5.97	5.93	5.86	5.83
Temp	70.1	69.9	69.7	69.5	69.1	68.9	68.7
Gal.	5	11	16	22	27	33	39

Final Turbidity:

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection

Depth to Water (ft.)	1.32	Total Well Depth(ft.)	17.55
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GROUND WATER AND SOIL CLEAN-UP SYSTEM

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

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	1812.8	CONTINUOUS
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	14	
					TK REC TEMP	F	40	
					AIR TEMP	F	72	
					AIR FLOW	CFM	16	
					VAPOR FLOW	CFM	11	
					FUEL FLOW	CFMH	70	
					WELL VACUUM	IN H2O	13	
					GAS METER	%	40	
					CATALYST IN	F		
					CATALYST 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 ENGINE. VALVE FROM TANK SPONTANEOUSLY WAS TURN OFF ??.								
SERVICE TECHNICIAN	8515				DATE	04-20-04	THRIFTY OIL CO #	054



EARTH MANAGEMENT CO.



FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

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

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	1215.7	DON'T WORK
					ENGINE RPM	RPM	1800	
					ENGINE VACUUM	IN HG	17	
					TK REC TEMP	F	98	
					AIR TEMP	F	72	
					AIR FLOW	CFM	16	
					VAPOR FLOW	CFM	13	
					FUEL FLOW	CFM/H	80	
					WELL VACUUM	IN H2O	13	
					GAS METER		5.60	
					CATALYST IN	F		
					CATALYST OUT	F		
					EXHAUST HC	PPM/%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		
COMMENTS: Second time I find the valve turn off from propane tank ??.								
SERVICE TECHNICIAN <u>S. Brown</u>					DATE <u>04-13-99</u> THRIFTY OIL CO # <u>054</u>			

COMMENTS: Second time I find the valve turn off from propane tank ??.

SERVICE TECHNICIAN John

DATE 04-13-99 THRIFTY OIL CO # 044



EARTH MANAGEMENT CO.

Environmental Health Perspectives

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD

WELLS	WATER					WELLS	VAPORS				
	RE1	RE2	RE3	RE4	RE5		RE6	RE7	RE8	RE9	RE10
ON						ON	RE1	RE3		RE6	RE7
OFF						OFF					

WELL MONITORING

RSI SYSTEM

PARAMETER	U/M	DATA	OBS
TIME	AM/PM		
HOURS	#	12/16/9	30 min work
ENGINE RPM	RPM	1100	
ENGINE VACUUM	IN HG	14	
TK REC TEMP	F	63	
AIR TEMP	F	70	
AIR FLOW	CFM	12	
VAPOR FLOW	CFM	?	
FUEL FLOW	CFM/H	20	
WELL VACUUM	IN H2O	12	
GAS METER		45, 10	
CATALYST IN	F		
CATALYST OUT	F		
EXHAUST HC	PPM/%		
EXHAUST CO	%PPM		
EXHAUST CO2	%		
EXHAUST NOX	%PPM		
CATALYST REPLACEMENT			
EXHAUST O2	%		
INLET	PPM		
OUTLET	PPM		

COMMENTS: RESTART ENGINE AGAIN. USFD TOO MUCH

SERVICE TECHNICIAN

DATE 08-30-99 THRIFTY OIL CO # 05 C

EARTH MANAGEMENT CO.

FIELD STATUS REPORT

王之子也。故曰：「王之子也。」

MAINE ODP

WELL MONITORING

RSI SYSTEM

PARAMETER	U/M	DATA	OBS
TIME	AM/PM		
HOURS	#	18 14.8	30 min idle
ENGINE RPM	RPM	1100	
ENGINE VACUUM	IN HG	10.14	
TK REC TEMP	F	100	
AIR TEMP	F	70	
AIR FLOW	CFM	16	
VAPOR FLOW	CFM	12	
FUEL FLOW	CFM/H	7.3	
WELL VACUUM	IN H2O	12	"
GAS METER	%	70	
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 TECHNICIAN

Sister

DATE 07-24-99 THRIFTY OIL CO # 03

EARTH MANAGEMENT CO.

WILLIAM TAYLOR *1830-1908*

GROUNDWATER AND OIL CLEANUP SYSTEM

MAINFOLD									
WATER					VAPORS				
WELLS					WELLS				
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		
					HOURS	#	18148	DON'T WORK
					ENGINE RPM	RPM	1740	
					ENGINE VACUUM	IN HG	14	
					TK REC TEMP	F	98	
					AIR TEMP	F	64	
					AIR FLOW	CFM	16	
					VAPOR FLOW	CFM	13	
					FUEL FLOW	CFM/H	20	
					WELL VACUUM	IN H ₂ O	12	
					GAS METER	%	80	
HYDROCARBON STRIPPER & VAPOR EXTRACTION SYSTEM W/ACU OR CAT					CATALYST IN	F		
PARAMETER	U/M	LIMIT	DATA		CATALYST OUT	F		
FLOWMETER					EXHAUST HC	PPM/%		
ROTAMETER					EXHAUST CO	%PPM		
VPI FLOW					EXHAUST CO ₂	%		
VPI VACUUM					EXHAUST NOX	%PPM		
AIR COMPRES					CATALYST REPLACEMENT			
VAPOR					EXHAUST O ₂	%		
INLET VAPOR					INLET	PPM		
TEMPERATURE					OUTLET	PPM		
LEL								
COMMENTS: THE GAUGE TIME DON'T WORK - ENGINE USED TOO MUCH oil ?? RUN O.K. BUT OIL MUST ADD 1Q. EVERY TIME -								
SERVICE TECHNICIAN	<i>J. D. Dan</i>		DATE	09-16-99	THRIFTY OIL CO #	054		



EARTH MANAGEMENT CO.

RECEIVED 1/12/73

AUG-16-1999

CO. AUG - 1 c 1999 FIELD STATUS REPORT
ENVIRONMENTAL
GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD

WELL MONITORING

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			

RSI SYSTEM

PARAMETER	U/M	DATA	OBS
TIME	AM/PM		-
HOURS	#	18198	DON'T WORRY
ENGINE RPM	RPM	1800	
ENGINE VACUUM	IN HG	14	
TK REC TEMP	F	100	
AIR TEMP	F	76	
AIR FLOW	CFM	12	
VAPOR FLOW	CFM	4	
FUEL FLOW	CFM/H	75	
WELL VACUUM	IN H2O	13	
GAS METER		% 90	
CATALYST IN	F		
CATALYST OUT	F		
EXHAUST HC	PPM/%		
EXHAUST CO	%PPM		
EXHAUST CO2	%		
EXHAUST NOX	%PPM		
CATALYST REPLACEMENT			
EXHAUST O2	%		
INLET	PPM		
OUTLET	PPM		

COMMENTS: Engine was shut down, because battery fail -
Restart again -

SERVICE TECHNICIAN

DATE 8-09-99 THRIFTY OIL CO # 054



EARTH MANAGEMENT CO.

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD							
WELLS	WATER				VAPORS		
	WELL 1	WELL 2	WELL 3	WELL 4	WELL 5	WELL 6	WELL 7
ON							
OFF							

WELL MONITORING					RSI SYSTEM			
WELL NO	DTW	DTP	PT	DTB	PARAMETER	U/M	DATA	OBS
					TIME	AM/PM		
					HOURS	#	18146	
					ENGINE RPM	RPM	1780	
					ENGINE VACUUM	IN HG	12	
					TK REC TEMP	F	100	
					AIR TEMP	F	74	
					AIR FLOW	CFM	10	
					VAPOR FLOW	CFM	7	
					FUEL FLOW	CFM/H	75	
					WELL VACUUM	IN H2O	13	
					GAS METER	%	90	
					CATALYST IN	F		
					CATALYST OUT	F		
					EXHAUST HC	PPM%		
					EXHAUST CO	%PPM		
					EXHAUST CO2	%		
					EXHAUST NOX	%PPM		
					CATALYST REPLACEMENT			
					EXHAUST O2	%		
					INLET	PPM		
					OUTLET	PPM		
COMMENTS: INLET AND OUTLET SAMPLING (BENZENE)								
SERVICE TECHNICIAN		DATE		THRIFTY OIL CO #		054		

T.O.C. SSM

1054

VAPOR EXTRACTION SYSTEM MODEL:

RS1 (VE + GWT)

8-02-1999

DATE: 9-02-1999

VAPOR READING

THE INSTRUMENT USED: Flo

10

CALIBRATED AS :
.....

TECHNICIAN NAME: ZFRBBAK P.



EARTH MANAGEMENT CO.

Environmental Protection

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD

WELL MONITORING

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:

RSI SYSTEM			
PARAMETER	U/M	DATA	OBS
TIME	AM/PM		
HOURS	#	18/70	
ENGINE RPM	RPM	1200	
ENGINE VACUUM	IN HG	13	
TK REC TEMP	F	98	
AIR TEMP	F	82	
AIR FLOW	CFM	12	
VAPOR FLOW	CFM	7	
FUEL FLOW	CFM/H	70	
WELL VACUUM	IN H2O	13	25
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		

SERVICE TECHNICIAN

DATE 7-29-99 THIRTY OIL CO # 054



EARTH MANAGEMENT CO.

Environmental Remediation

FIELD STATUS REPORT

GROUNDWATER AND SOIL CLEANUP SYSTEM

MAINFOLD

WELLS	WATER					WELLS	VAPORS				
	ON	OFF	ON	OFF	ON		ON	OFF	ON	OFF	
ON						ON	PE 1	PE 3		REG	REF
OFF						OFF					

WELL MONITORING

RSI SYSTEM

PARAMETER	U/M	DATA	OBS
TIME	AM/PM		-
HOURS	#	18.163	
ENGINE RPM	RPM	1800	
ENGINE VACUUM	IN HG	14	
TK REC TEMP	F	40	
AIR TEMP.	F	74	
AIR FLOW	CFM	16	
VAPOR FLOW	CFM	13	
FUEL FLOW	CFM/H	7.0	
WELL VACUUM	IN H2O	13	
GAS METER		% 10	
CATALYST IN	F		
CATALYST OUT	F		
EXHAUST HC	PPM/%		
EXHAUST CO	%PPM		
EXHAUST CO2	%		
EXHAUST NOX	%PPM		
CATALYST REPLACEMENT			
EXHAUST O2	%		
INLET	PPM		
OUTLET	PPM		

COMMENTS: Engine was shut down, I restart again. Run few hours
only HR SAMPLING -

SERVICE TECHNICIAN John

DATE 07-07-94 THRIFTY OIL CO # 054



EARTH MANAGEMENT CO.

FIELD STATUS REPORT

GROUND WATER AND SOIL CLEAN-UP SYSTEM

MAINFOLD

WELLS	WATER						WELLS	VAPORS					
	1	2	3	4	5	6		1	2	3	4	5	6
ON							ON	REG	REG				REG REG
OFF							OFF						

WELL MONITORING

RSI SYSTEM

PARAMETER	U/M	DATA	OBS
TIME	AM/PM	AM	
HOURS	#	18 130	
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		

COMMENTS: System run only few hours ??

SERVICE TECHNICIAN

Presto

DATE 06-23-84

DATE 06-22-49 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.: A135054101
Date Received: 09/10/99
Date Reported: 09/21/99
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
94036	RS-10	09/08/99	09/13/99	<50	50
94037	RS-11	09/08/99	09/13/99	99	50
94038	RS-8	09/08/99	09/13/99	<50	50
94039	RE-7	09/08/99	09/13/99	1700	50
94040	PW-2	09/08/99	09/13/99	100	50
94041	PW-1	09/08/99	09/13/99	<50	50
94042	RE-6	09/08/99	09/13/99	<50	50
94043	RE-2	09/08/99	09/13/99	1400	50
94044	RE-5	09/08/99	09/13/99	68	50
94045	RS-9	09/08/99	09/13/99	<50	50
94046	RE-1	09/08/99	09/13/99	72	50
94047	RE-4	09/08/99	09/13/99	590	50
94048	RE-3	09/08/99	09/13/99	140	50
94049	Trip Blank	09/08/99	09/13/99	<50	50

MRL: Method Reporting Limit

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

George Havalias
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

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

AA Project No.: A135054101
Date Received: 09/10/99
Date Reported: 09/21/99
Units: ug/L

Date Sampled:	09/08/99	09/08/99	09/08/99	09/08/99	
Date Analyzed:	09/13/99	09/13/99	09/13/99	09/13/99	
AA ID No.:	94036	94037	94038	94039	
Client ID No.:	RS-10	RS-11	RS-8	RE-7	MRL

Compounds:

Benzene	<0.3	9.1	<0.3	380	0.3
Ethylbenzene	<0.3	<0.3	<0.3	<3	0.3
Toluene	<0.3	0.37	<0.3	<3	0.3
Xylenes	<0.5	<0.5	<0.5	13	0.5

dkf
George Havalas
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.: A135054101
Date Received: 09/10/99
Date Reported: 09/21/99
Units: ug/L

Date Sampled:	09/08/99	09/08/99	09/08/99	09/08/99	
Date Analyzed:	09/13/99	09/13/99	09/13/99	09/13/99	
AA ID No.:	94040	94041	94042	94043	MRL
Client ID No.:	PW-2	PW-1	RE-6	RE-2	

Compounds:

Benzene	<0.3	<0.3	<0.3	<3	0.3
Ethylbenzene	<0.3	<0.3	<0.3	<3	0.3
Toluene	<0.3	<0.3	<0.3	<3	0.3
Xylenes	<0.5	<0.5	<0.5	<5	0.5


George Havalas
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.: A135054101
Date Received: 09/10/99
Date Reported: 09/21/99
Units: ug/L

Date Sampled:	09/08/99	09/08/99	09/08/99	09/08/99	09/08/99	
Date Analyzed:	09/13/99	09/13/99	09/13/99	09/13/99	09/13/99	
AA ID No.:	94044	94045	94046	94047		
Client ID No.:	RE-5	RS-9	RE-1	RE-4		MRL
<u>Compounds:</u>						
Benzene	<0.3	<0.3	<0.3	1.5	0.3	
Ethylbenzene	<0.3	<0.3	<0.3	<0.6	0.3	
Toluene	<0.3	<0.3	<0.3	<0.6	0.3	
Xylenes	<0.5	<0.5	<0.5	<1	0.5	

duf
George Havallas
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.: A135054101
Date Received: 09/10/99
Date Reported: 09/21/99
Units: ug/L

Date Sampled:	09/08/99	09/08/99	
Date Analyzed:	09/13/99	09/13/99	
AA ID No.:	94048	94049	
Client ID No.:	RE-3	Trip Blank	MRL
<u>Compounds:</u>			
Benzene	0.72	<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 Havalas
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.: A135054101
Date Received: 09/10/99
Date Reported: 09/21/99
Units: ug/L

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
94036	RS-10	09/08/99	09/13/99	<5	5
94037	RS-11	09/08/99	09/13/99	<5	5
94038	RS-8	09/08/99	09/13/99	25	5
94039	RE-7	09/08/99	09/13/99	160	5
94040	PW-2	09/08/99	09/13/99	230	5
94041	PW-1	09/08/99	09/13/99	<5	5
94042	RE-6	09/08/99	09/13/99	<5	5
94043	RE-2	09/08/99	09/13/99	3200	5
94044	RE-5	09/08/99	09/13/99	110	5
94045	RS-9	09/08/99	09/13/99	<5	5
94046	RE-1	09/08/99	09/13/99	120	5
94047	RE-4	09/08/99	09/13/99	1100	5
94048	RE-3	09/08/99	09/13/99	230	5
94049	Trip Blank	09/08/99	09/13/99	<5	5

MRL: Method Reporting Limit

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

dnf
George Havallas
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.: 94036
Project No.: N/A
AA Project No.: A135054101
Date Analyzed: 09/13/99
Date Reported: 09/21/99

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Benzene	21.07	105	21.61	108	3	65 - 135
Ethylbenzene	20.08	100	20.14	101	1	77 - 123
Toluene	20.09	100	20.51	103	3	66 - 134
Xylenes	20.04	100	20.31	102	2	73 - 127

duf
George Havalas
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.: 94036
Project No.: N/A
AA Project No.: A135054101
Date Analyzed: 09/13/99
Date Reported: 09/21/99

Compounds	Result (ug/L)	Spike Recovery (%)	Dup. Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept.Rec. Range (%)
Gasoline Range Organics	450	90	450	90	0	59 - 149


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: 09-08-99

PAGE 1 OF 1

AA Client	T.O.C.	Phone 562/921-3581	Sampler's Name SERBINA P.							
Project Manager	JEFF SURIYAKOSUMA	P.O. No.	Sampler's Signature <i>S. S. S.</i>							
Project Name	QHS	Project No.	Project Manager's Signature <i>S. S. S.</i>							
Job Name and Address	054 2504 CASTRO VALLEY Blvd. CASTRO VALLEY, CA. 94546	ANALYSIS REQUIRED								
A.A. ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	Test Name	TPE	BTEX	MTBE	Test Requirements
94036	RS-10	9-08-99	16:50	WATER	3	X X X				
94037	RS-11	1	17:00	A	3	X X X				
94038	RS-8	1	17:05	A	3	X X X				
94039	RE-7		17:10		3	X X X				
94040	PW-2		17:15		3	X X X				
94041	PW-1		17:20		3	X X X				
94042	RE-6		17:25		3	X X X				
94043	RE-2		17:30		3	X X X				
94044	RE-5		17:35		3	X X X				
94045	RS-9		17:45		3	X X X				
94046	RE-1		17:50		3	X X X				
94047	RE-4		17:55		3	X X X				
94048	RE-3		18:00		3	X X X				
94049	TRIP BLANK		7:30		2	X X				
SAMPLE INTEGRITY TO BE FILLED IN BY RECEIVING LAB						Relinquished by: <i>S. S.</i>	Date 09-08-99	Time 17:00	Received by: CA OVERNIGHT	
Samples Intact Yes / No						Relinquished by: <i>CA OVERNIGHT</i>	Date 09-08-99	Time 17:30	Received by: <i>Ullie G.</i>	
Samples Properly Cooled Yes / No						Relinquished by: <i>CA OVERNIGHT</i>	Date 09-08-99	Time 17:30	Received by: <i>Ullie G.</i>	
Samples Accepted Yes / No						Relinquished by: <i>CA OVERNIGHT</i>	Date 09-08-99	Time 17:30	Received by: <i>Ullie G.</i>	
If Not Why:						Relinquished by: <i>CA OVERNIGHT</i>	Date 09-08-99	Time 17:30	Received by: <i>Ullie G.</i>	
AA Project No. A13505400						Relinquished by: <i>CA OVERNIGHT</i>	Date 09-08-99	Time 17:30	Received by: <i>Ullie G.</i>	

APPENDIX C



LABORATORY ANALYSIS RESULTS

Page 1 ✓

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

AA Project No.: A135054102
Date Received: 09/15/99
Date Reported: 09/23/99
Units: ppmv

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
94314	Inlet	09/14/99	09/15/99	2200	5
94315	Outlet	09/14/99	09/15/99	110	5
94316	RE-1	09/14/99	09/15/99	5400	5
94317	RE-3	09/14/99	09/15/99	2200	5
94318	RE-6	09/14/99	09/15/99	650	5
94319	RE-7	09/14/99	09/15/99	2800	5

MRL: Method Reporting Limit

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

slbf
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.: A135054102
Date Received: 09/15/99
Date Reported: 09/23/99
Units: ppmV

Date Sampled:	09/14/99	09/14/99	09/14/99	09/14/99	
Date Analyzed:	09/15/99	09/15/99	09/15/99	09/15/99	
AA ID No.:	94314	94315	94316	94317	
Client ID No.:	Inlet	Outlet	RE-1	RE-3	MRL

Compounds:

Benzene	11	0.39	24	8.4	0.1
Ethylbenzene	11	1.2	29	11	0.1
Toluene	36	2.8	120	41	0.1
Xylenes	55	7.4	140	57	0.1

cluf
George Havalas
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 2

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

AA Project No.: A135054102
Date Received: 09/15/99
Date Reported: 09/23/99
Units: ppmV

Date Sampled:	09/14/99	09/14/99	
Date Analyzed:	09/15/99	09/15/99	
AA ID No.:	94318	94319	
Client ID No.:	RE-6	RE-7	MRL

Compounds:

Benzene	1.2	9.6	0.1
Ethylbenzene	8.3	15	0.1
Toluene	16	50	0.1
Xylenes	51	82	0.1

MRL: Method Reporting Limit

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

clmf
George Havalas
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

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

AA Project No.: A135054102
Date Received: 09/15/99
Date Reported: 09/23/99
Units: ppmv

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
94314	Inlet	09/14/99	09/15/99	9.9	1
94315	Outlet	09/14/99	09/15/99	<1	1
94316	RE-1	09/14/99	09/15/99	30	1
94317	RE-3	09/14/99	09/15/99	8.5	1
94318	RE-6	09/14/99	09/15/99	<4	1
94319	RE-7	09/14/99	09/15/99	9.3	1

MRL: Method Reporting Limit

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

cluf

George Havalas
Laboratory Director



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1-800-533-8378

FAX (818) 998-7258

DATE: 09-19-11

PAGE 1 OF 1

SAMPLE INTEGRITY TO BE FILLED IN BY RECEIVING LAB

Samples intact Yes No

Samples Properly Cooked Yes No

Samples Accepted Yes No

If Not Why: _____

AA Project No.

A135054 102

Reinforced by:


Reinforced by:
CA. OVERNIGHT

Relinquished by:

Pronounced by

Database

Date

Date

61

Time
12:48

Time
A-B

Time

0900

Received by
CIA

Received by

Received by

Received by



LABORATORY ANALYSIS RESULTS

Page 1

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

AA Project No.: A135054100 ✓
Date Received: 08/30/99
Date Reported: 09/09/99
Units: ppmV

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
93385	Inlet	08/30/99	08/31/99	<5	5
93386	Outlet	08/30/99	08/31/99	<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.: A135054100
Date Received: 08/30/99
Date Reported: 09/09/99
Units: ppmV

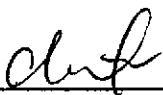
Date Sampled:	08/30/99	08/30/99	
Date Analyzed:	08/31/99	08/31/99	
AA ID No.:	93385	93386	
Client ID No.:	Inlet	Outlet	MRL

Compounds:

Benzene	<0.1	<0.1	0.1
Ethylbenzene	0.12	<0.1	0.1
Toluene	0.23	<0.1	0.1
Xylenes	0.77	<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: MTBE (EPA 8020)

AA Project No.: A135054100
Date Received: 08/30/99
Date Reported: 09/09/99
Units: ppmv

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
93385	Inlet	08/30/99	08/31/99	1.6	1
93386	Outlet	08/30/99	08/31/99	<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: 08-30-99
PAGE 1 OF 1

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(818) 998-5548

1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

SAMPLE INTEGRITY: TO BE FILLED IN BY RECEIVING LAB

Scabies Infect Yes No

Samples Properly Cooked Yes _____ No _____

Samples Accepted Yes _____ No _____

If Not Why: _____

AA Project No. 4-12-1 4-12-2

Relinquished by: <u>D. Viter</u>	Date 3-30-94	Time 17:30	Received by: <u>C.A. OVERNIGHT</u>
Relinquished by: <u>C.A. OVERNIGHT</u>	Date 3-30-94	Time 17:30	Received by: <u>Mark Barkay</u>
Relinquished by: <u>G</u>	Date 3/31/94	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: Vapor
Method: EPA 8015M(Gasoline)

AA Project No.: A135054-99 ✓
Date Received: 08/25/99
Date Reported: 08/31/99
Units: ppmV

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
93041	In	08/24/99	05/26/99	53	5
93042	Out	08/24/99	08/26/99	<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.: A135054-99
Date Received: 08/25/99
Date Reported: 08/31/99
Units: ppmV

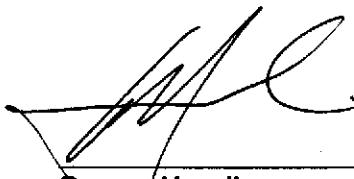
Date Sampled:	08/24/99	08/24/99	
Date Analyzed:	08/26/99	08/26/99	
AA ID No.:	93041	93042	
Client ID No.:	In	Out	MRL

Compounds:

Benzene	1.4	<0.1	0.1
Ethylbenzene	2.5	<0.1	0.1
Toluene	8.1	<0.1	0.1
Xylenes	14	<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: MTBE (EPA 8020)

AA Project No.: A135054-99
Date Received: 08/25/99
Date Reported: 08/31/99
Units: ppmv

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
93041	In	08/24/99	08/26/99	<1	1
93042	Out	08/24/99	08/26/99	<1	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

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1-800-533-TEST

1-800-533-8378

FAX (818) 998-7258

DATE: 08-24-99

PAGE 1 OF 1

DISTRIBUTION: White - Laboratory, Candy - 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.: A135054-98
Date Received: 08/04/99
Date Reported: 08/09/99
Units: ug

AA I.D. No.	Client I.D. No.	Date Sampled	Date Extracted	Date Analyzed	Results	MRL
91927	Effluent	08/02/99	08/04/99	08/04/99	<0.1	0.1
91928	Trip Blank	08/02/99	08/04/99	08/04/99	<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

AUG 13 1999

ENVIRONMENTAL

Page 1

Client: Thrifty Oil Company

Project No.: N/A

Project Name: SS #054

Sample Matrix: Vapor

Method: EPA 8015M(Gasoline)

AA Project No.: A135054-97

Date Received: 07/23/99

Date Reported: 08/11/99

Units: ppmV

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
91249	Outlet	07/22/99	07/23/99	<5	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: Vapor
Method: MTBE (EPA 8020)

AA Project No.: A135054-97
Date Received: 07/23/99
Date Reported: 08/11/99
Units: ppmv

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
91249	Outlet	07/22/99	07/23/99	<1	1

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

George Havalas
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.: A135054-97
Date Received: 07/23/99
Date Reported: 08/11/99
Units: ppmV

Date Sampled:	07/22/99	
Date Analyzed:	07/23/99	
AA ID No.:	91249	
Client ID No.:	Outlet	MRL
Compounds:		
Benzene	<0.1	0.1
Ethylbenzene	<0.1	0.1
Toluene	<0.1	0.1
Xylenes	<0.1	0.1

MRL: Method Reporting Limit

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

clif
George Havalias
Laboratory Director



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

(818) 998-5547

(818) 998-6646

1-800-533-TEST

1-800-599-9999

FAX (818) 998-7251

DATE 2-22-99

PAGE 1 OF 1

AA Client		(818) 998-5547		(818) 998-5548		1-800-533-TEST		1-800-533-8378		FAX (818) 998-7258		PAGE 1 OF 1	
Project Manager	THIRTY OIL CO.	Phone	1562/921-3581		Sampler's Name	JEREMY P.							
Project Name	YAFF SURYAKASUMA	P.O. No.			Sampler's Signature	<i>Sofia</i>							
Job Name and Address	MONTHLY SAMPLING → 054 2504 CASTRO VALLEY BLVD, CASTRO VALLEY CA 94546	Project No.			Project Manager's Signature								
ANALYSIS REQUIRED													
A.A. ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	Detection Limits	Test Requirements						
Gerry	INLET	7-22-99	14:10	AIR	100M	TPT BTG DTR	CONFIRM 8260 PARTITION						
	Outlet	Cm per gallon 8/11/99					X	X	X				
SAMPLE INTEGRITY TO BE FILLED IN BY RECEIVING LAB													
Samples Intact	Yes <input checked="" type="checkbox"/>	No _____	Reinquished by:		<i>Sofia</i>		Date	Time	Received by:				
Samples Properly Coded	Yes <input checked="" type="checkbox"/>	No _____	Reinquished by:		<i>CIA OVERNIGHT</i>		Date	Time	Received by:		<i>CIA OVERNIGHT</i>		
Samples Accepted	Yes <input checked="" type="checkbox"/>	No _____	Reinquished by:		<i>CIA OVERNIGHT</i>		Date	Time	Received by:		<i>CIA OVERNIGHT</i>		
If Not Why:			Reinquished by:		<i>CIA OVERNIGHT</i>		Date	Time	Received by:		<i>CIA OVERNIGHT</i>		
Project No.	8138054-97		Reinquished by:		<i>CIA OVERNIGHT</i>		Date	Time	Received by:		<i>CIA OVERNIGHT</i>		
SOFIA WHITE - Laboratory													



LABORATORY ANALYSIS RESULTS

Page 1

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

AA Project No.: A135054-96 ✓
Date Received: 07/14/99
Date Reported: 07/19/99
Units: ppmV

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
90796	Outlet	07/12/99	07/14/99	<5	5

MRL: Method Reporting Limit

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

George Havaliás
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.: A135054-96
Date Received: 07/14/99
Date Reported: 07/19/99
Units: ppmV

Date Sampled: 07/12/99

Date Analyzed: 07/14/99

AA ID No.: 90796

Client ID No.: Outlet

MRL

Compounds:

Benzene	0.11	0.1
Ethylbenzene	0.11	0.1
Toluene	0.63	0.1
Xylenes	0.70	0.1

MRL: Method Reporting Limit

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

cliff

George Havalas
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

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

AA Project No.: A135054-96
Date Received: 07/14/99
Date Reported: 07/19/99
Units: ppmv

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
90796	Outlet	07/12/99	07/14/99	1.1	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: MTBE (EPA 8260)

AA Project No.: A135054-96
Date Received: 07/14/99
Date Reported: 07/19/99
Units: ppmv

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
90796	Outlet	07/12/99	07/14/99	1.5	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: 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 Havallas
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

Compounds:

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 Havallas
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

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



LABORATORY ANALYSIS RESULTS

Page 1

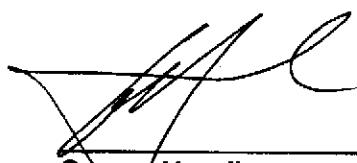
Client: Thrifty Oil Company
Project No.: N/A
Project Name: SS #054 ✓
Sample Matrix: Vapor
Method: EPA 8015M(Gasoline)

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 Havallas
Laboratory Director



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1-800-533-8378

FAX (818) 998-7258

DATE: 01.05.99
PAGE 1 OF 4

AA Client	THRIFTY OIL CO.		Phone (562) 971-3181	Sampler's Name SVERBICK P.					
Project Manager	JEFF SURYAKUSUMA		P.O. No.	Sampler's Signature SJT					
Project Name			Project No.	Project Manager's Signature					
Job Name and Address	3300 054		ANALYSIS REQUIRED						
AA ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	Detection Limits	Test Requirements		
						TPX	BTEX	MTBE	TPX
87346	INLET	05.05.99	7:30	AIR	1006-	X X Y	IF MTBE DETECTION CONFORMS WITH 8260 —		
SAMPLE INTEGRITY TO BE FILLED IN BY RECEIVING LAB						Reinquished by: <i>SJT</i>	Date —	Time —	Received by: CA. OVERSIGHT
Samples Intact						Reinquished by: <i>Cat. OVERSIGHT</i>	Date 5/6/99	Time 1012	Received by: <i>Werner Hart</i>
Samples Properly Cooled						Reinquished by: <i>Cat. OVERSIGHT</i>	Date —	Time —	Received by: —
Samples Accepted						Reinquished by: <i>Cat. OVERSIGHT</i>	Date —	Time —	Received by: —
If Not Why:						Reinquished by: <i>Cat. OVERSIGHT</i>	Date —	Time —	Received by: —
AA Project No. A135069-94						Reinquished by: <i>Cat. OVERSIGHT</i>	Date —	Time —	Received by: —

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

APPENDIX D



LABORATORY ANALYSIS RESULTS

Page 1 ✓

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

AA Project No.: A135054102
Date Received: 09/15/99
Date Reported: 09/23/99
Units: ppmV

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
94314	Inlet	09/14/99	09/15/99	2200	5
94315	Outlet	09/14/99	09/15/99	110	5
94316	RE-1	09/14/99	09/15/99	5400	5
94317	RE-3	09/14/99	09/15/99	2200	5
94318	RE-6	09/14/99	09/15/99	650	5
94319	RE-7	09/14/99	09/15/99	2800	5

MRL: Method Reporting Limit

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

slut
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.: A135054102
Date Received: 09/15/99
Date Reported: 09/23/99
Units: ppmV

Date Sampled:	09/14/99	09/14/99	09/14/99	09/14/99	
Date Analyzed:	09/15/99	09/15/99	09/15/99	09/15/99	
AA ID No.:	94314	94315	94316	94317	
Client ID No.:	Inlet	Outlet	RE-1	RE-3	MRL

Compounds:

Benzene	11	0.39	24	8.4	0.1
Ethylbenzene	11	1.2	29	11	0.1
Toluene	36	2.8	120	41	0.1
Xylenes	55	7.4	140	57	0.1

cluf
George Havallas
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 2

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

AA Project No.: A135054102
Date Received: 09/15/99
Date Reported: 09/23/99
Units: ppmV

Date Sampled:	09/14/99	09/14/99	
Date Analyzed:	09/15/99	09/15/99	
AA ID No.:	94318	94319	
Client ID No.:	RE-6	RE-7	MRL

Compounds:

Benzene	1.2	9.6	0.1
Ethylbenzene	8.3	15	0.1
Toluene	16	50	0.1
Xylenes	51	82	0.1

MRL: Method Reporting Limit

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

clhf
George Havalas
Laboratory Director



LABORATORY ANALYSIS RESULTS

Page 1

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

AA Project No.: A135054102
Date Received: 09/15/99
Date Reported: 09/23/99
Units: ppmv

AA I.D. No.	Client I.D. No.	Date Sampled	Date Analyzed	Results	MRL
94314	Inlet	09/14/99	09/15/99	9.9	1
94315	Outlet	09/14/99	09/15/99	<1	1
94316	RE-1	09/14/99	09/15/99	30	1
94317	RE-3	09/14/99	09/15/99	8.5	1
94318	RE-6	09/14/99	09/15/99	<4	1
94319	RE-7	09/14/99	09/15/99	9.3	1

MRL: Method Reporting Limit

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

clnt
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: 09-16-94

PAGE 1 OF 1

AA Client	THRIFTY OIL CO.	Phone	(562) 921-3581	Sampler's Name	SERBAN P.						
Project Manager	JEFF SURYAKUSUMA	P.O. No.		Sampler's Signature	<i>Suryay</i>						
Project Name	VAPOR SAMPLING	Project No.		Project Manager's Signature							
Job Name and Address	2504 CASTRO VALLEY Blvd. CASTRO VALLEY CA 94546	ANALYSIS REQUIRED									
A.A. ID.#	Client's ID.	Date	Time	Sample Type	Number of Containers	Detection Limits	Test Requirements				
94314	INLET	09-16-94	14:30	VAPOR	1 Bag	TBT	BTEX	MIBEN			
94315	OUTLET	1	15:00	1	1 Bag						
94316	RE-1		15:10	1	1 Bag						
94317	RE-3		15:15	1	1 Bag						
94318	RE-6		15:20	1	1 Bag						
94319	RE-7		15:25	1	1 Bag						
SAMPLE INTEGRITY-TO BE FILLED IN BY RECEIVING LAB											
Samples Intact		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Relinquished by:			Date	Time	Received by:
Samples Properly Cooled		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				<i>Suryay</i>			—	17:00	CA. OVERNIGHT
Samples Accepted		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Relinquished by:			Date	Time	Received by:
If Not Why:						<i>CA. OVERNIGHT</i>			—	17:30	—
AA Project No.						Relinquished by:			Date	Time	Received by:
						<i>Nelson Grant</i>			9/16/94	0900	
						Relinquished by:			Date	Time	Received by: