

THRIFTY OIL CO.

D.W.
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March 28, 2003

Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Alameda County
APR 04 2003
Environmental Health

O.332808
Local #3871
RWQCB #01-1479
Global ID #T0600101366
Confirmation #1277265310

RE: **Former Thrifty Oil Co. Station #063**
ARCO Products Company Station 39542
6125 Telegraph Avenue
Oakland, CA 94609
1st Quarter 2003, Status Report

Dear Ms. Hugo:

Presented herewith is the First Quarter 2003, Status Report for former Thrifty Oil Co. Station #063 located at 6125 Telegraph Avenue, Oakland, California.

Thrifty proposes to connect well MW-4 to the remediation system and to upgrade the existing remediation system, in order to enhance the reduction of petroleum hydrocarbons in the groundwater. Once approval is received from the ACHCS, Thrifty will submit a workplan for remediation system upgrade.

If you have any questions or comments, please contact the undersigned in this report or myself at (562) 921-3581.

Sincerely,



Chris Panaitescu
General Manager
Environmental Affairs

c: BP West Coast Products LLP; Ms. Kateri Luka
File



THRIFTY OIL CO.

March 28, 2003

Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Local #3871
RWQCB #01-1479
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Confirmation #1277265310

RE: **Former Thrifty Oil Co. Station #063**
ARCO Products Company Station #9542
6125 Telegraph Avenue
Oakland, CA
1st Quarter 2003, Status Report

Dear Ms. Hugo:

Presented herein is the First Quarter 2003, Status Report prepared for former Thrifty Oil Co. (Thrifty) Station #063 located at 6125 Telegraph Avenue, Oakland, California (**Figure 1**). This report presents the results of the site monitoring and remedial activities in the first quarter of 2003. Thrifty has retained the services of Earth Management Company (EMC) to conduct quarterly monitoring and sampling, and remedial system monitoring activities at this site.

Groundwater Monitoring

Depth to groundwater is measured in each monitoring well on a quarterly basis. In general, groundwater occurred beneath the station at depths ranging from 14.10 feet below surface grade (bsg) in monitoring well MW-3 to 16.84 feet bsg in monitoring well MW-4 on January 15, 2003. A groundwater elevation contour map based on the January 15, 2003 data is presented in **Figure 2**. The groundwater flow is generally towards the southwest with a gradient of approximately 0.05 feet/foot.

Quarterly Groundwater Sampling

As part of the ongoing groundwater-monitoring program, groundwater samples were obtained from monitoring wells MW-1, MW-4, MW-5, and MW-6 on January 15, 2003. Recovery well MW-3 was sampled on January 6, 2003 as an influent stream into the groundwater remediation system. Groundwater samples were obtained by EMC and delivered in a chilled state following strict Chain-of-Custody procedures to a state-certified laboratory. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA methods 8015M and 8021B. Laboratory analytical sampling results are provided in **Table 1**. Copies of the EMC Field Status Reports are presented in **Appendix A**, and copies of the laboratory analytical reports are contained in **Appendix B**.

TPH-g, BTEX, and MTBE concentrations appear in **Table 1**, and **Appendix B**. TPH-g, benzene, and MTBE isoconcentration maps results are presented in **Figures 3, 4, and 5**, respectively. Laboratory results indicate the highest concentrations of TPH-g, benzene, and MTBE were in monitoring well MW-4, with concentrations of 23,000 ug/L, 568 ug/L, and 18,300 ug/L, respectively. The isoconcentration maps did not incorporate data



from the treatment system influent well (MW-3), because it was sampled on a different day (January 6, 2003), than the other site wells.

Remediation Status

Site remedial activities were initiated in April 1991. Presently, the remediation system consists of a Groundwater Treatment System that extracts groundwater from monitoring well MW-3 with treatment utilizing activated carbon. System operational data is included in **Table 2** and **Appendix C**. During this reporting period, the groundwater treatment system processed approximately 65,220 gallons of groundwater from December 30, 2002 through March 10, 2003, and has treated approximately 2,084,539 gallons of groundwater since start up (April 1991) through March 10 2003. The system was shutdown for quarterly water sampling from January 13 through January 15, 2003, and again on March 17 through March 28, 2003 because the technician was on vacation. The system operated throughout the remainder of the quarter.

Inlet, intermediate 3, intermediate 2, intermediate 1, and outlet water samples were collected on January 6, 2003. The system water samples collected by EMC were sent to a state certified laboratory for analysis. The samples were analyzed for TPH-g, BTEX, and MTBE by EPA methods 8015 and 8021B. All outlet sample constituents were below the laboratory detection limit, except for toluene (1.2 ug/L) and xylenes (2.4 ug/L). Inlet water sample results indicated concentrations of 9,860 ug/L TPH-g, <1.4 ug/L benzene, and 205 ug/L MTBE. Copies of the laboratory analytical reports are included in **Appendix D**.

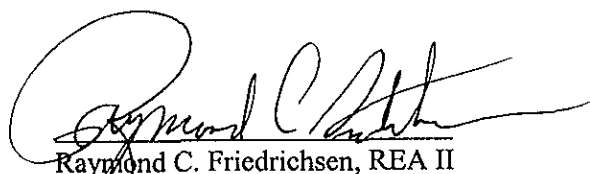
Other Activities

With the high concentration of petroleum hydrocarbons in well MW-4, Thrifty proposes to connect well MW-4 to the existing remediation system to enhance the reduction of the petroleum hydrocarbons in the groundwater, as originally requested in the 2nd Quarter, Status Report dated July 16, 2002. Once approval is received from the ACHCS, Thrifty will complete this work.

The groundwater monitoring wells and the treatment unit will be monitored and sampled during the next quarter. All site monitoring/sampling data generated during the next quarter will be reported in the Second Quarter 2003 monitoring report.

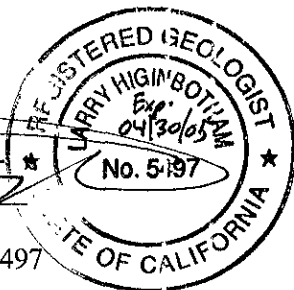
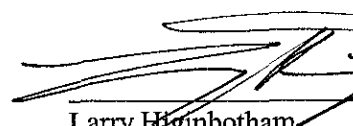
All interpretations expressed in this report are based solely upon the review of data collected by EMC, and Associated Laboratories.

Written by:



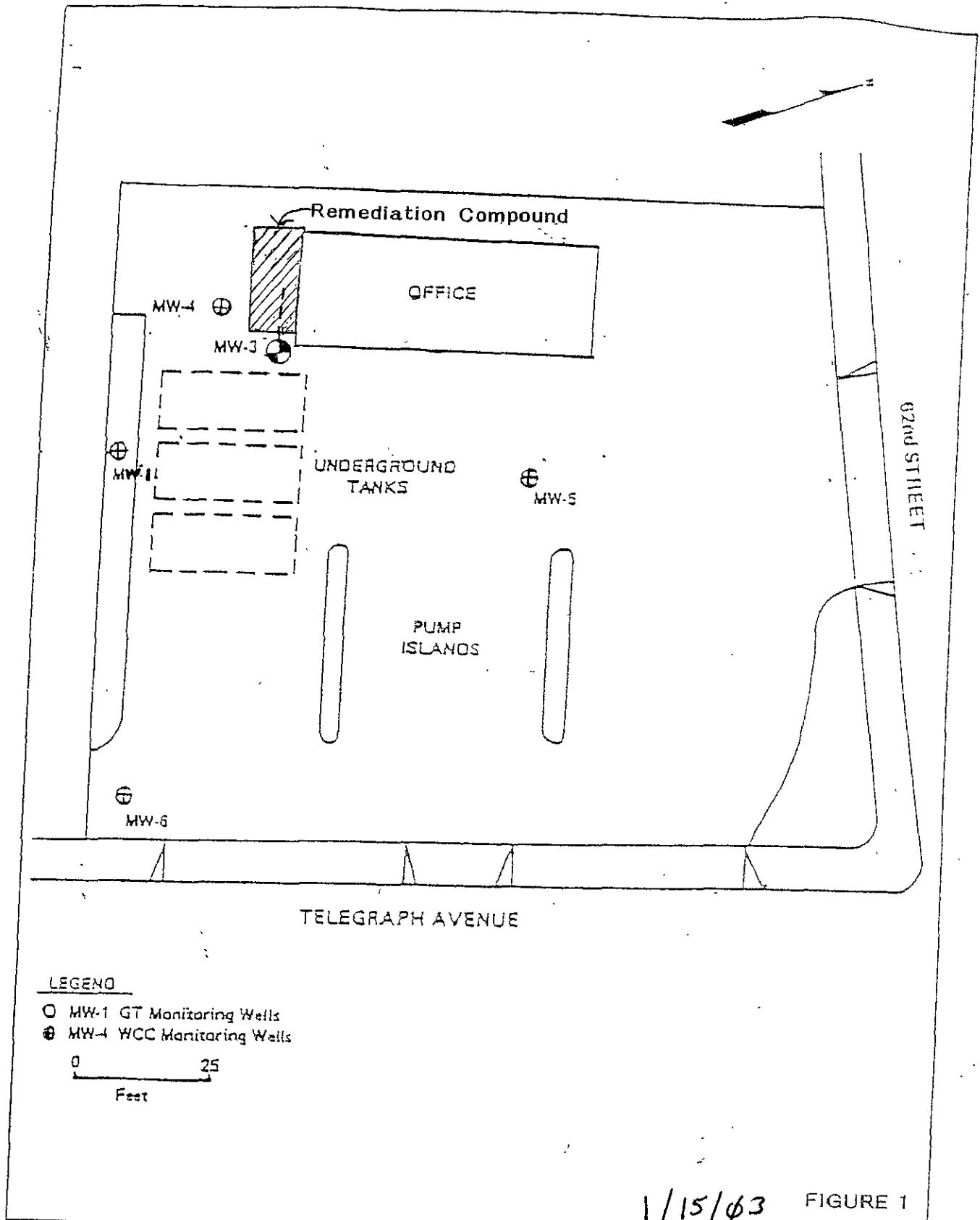
Raymond C. Friedrichsen, REA II
Project Manager, MBA
Senior Hydrogeologist

Reviewed by:



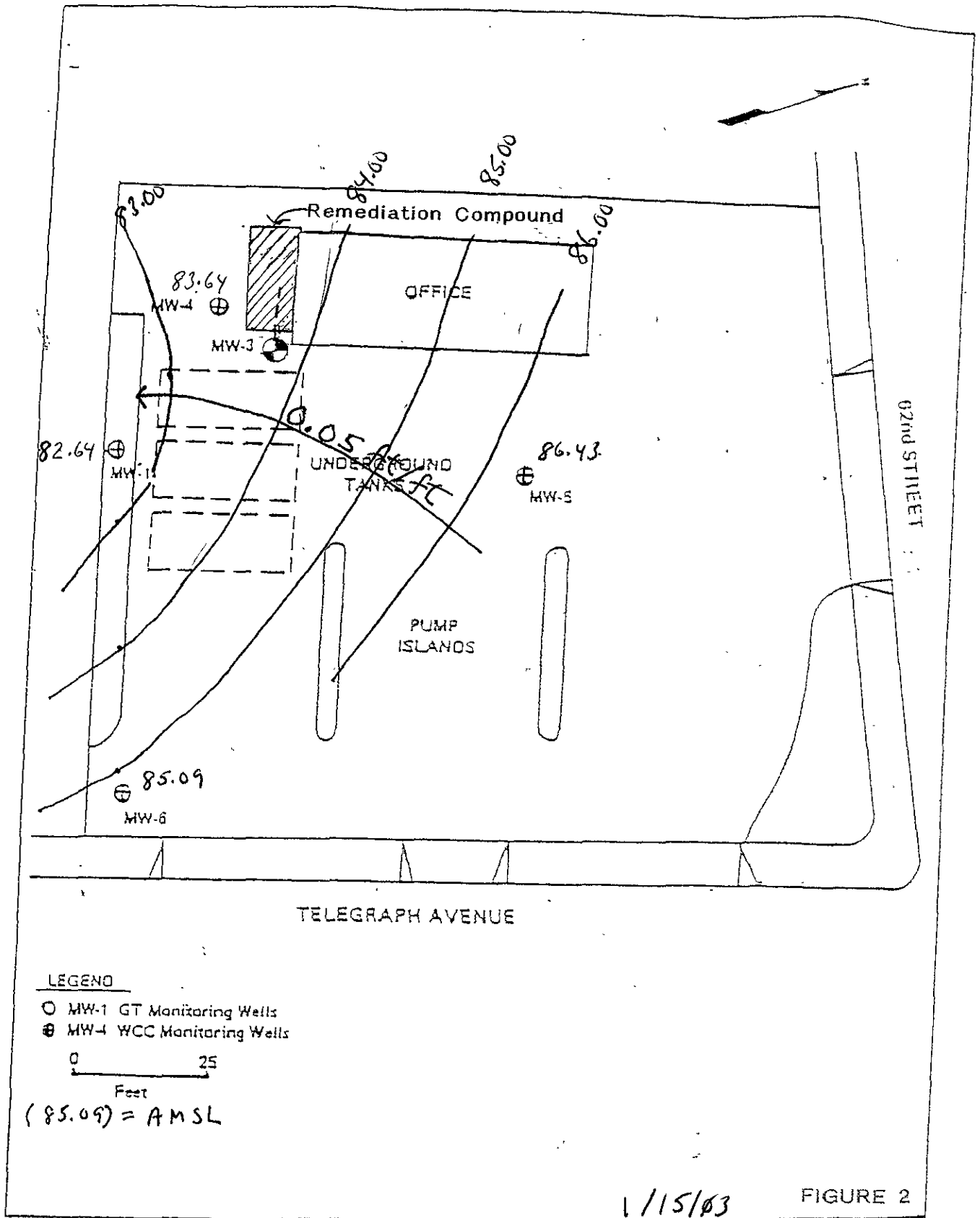
Larry Higinbotham
Registered Geologist #5497

FIGURES

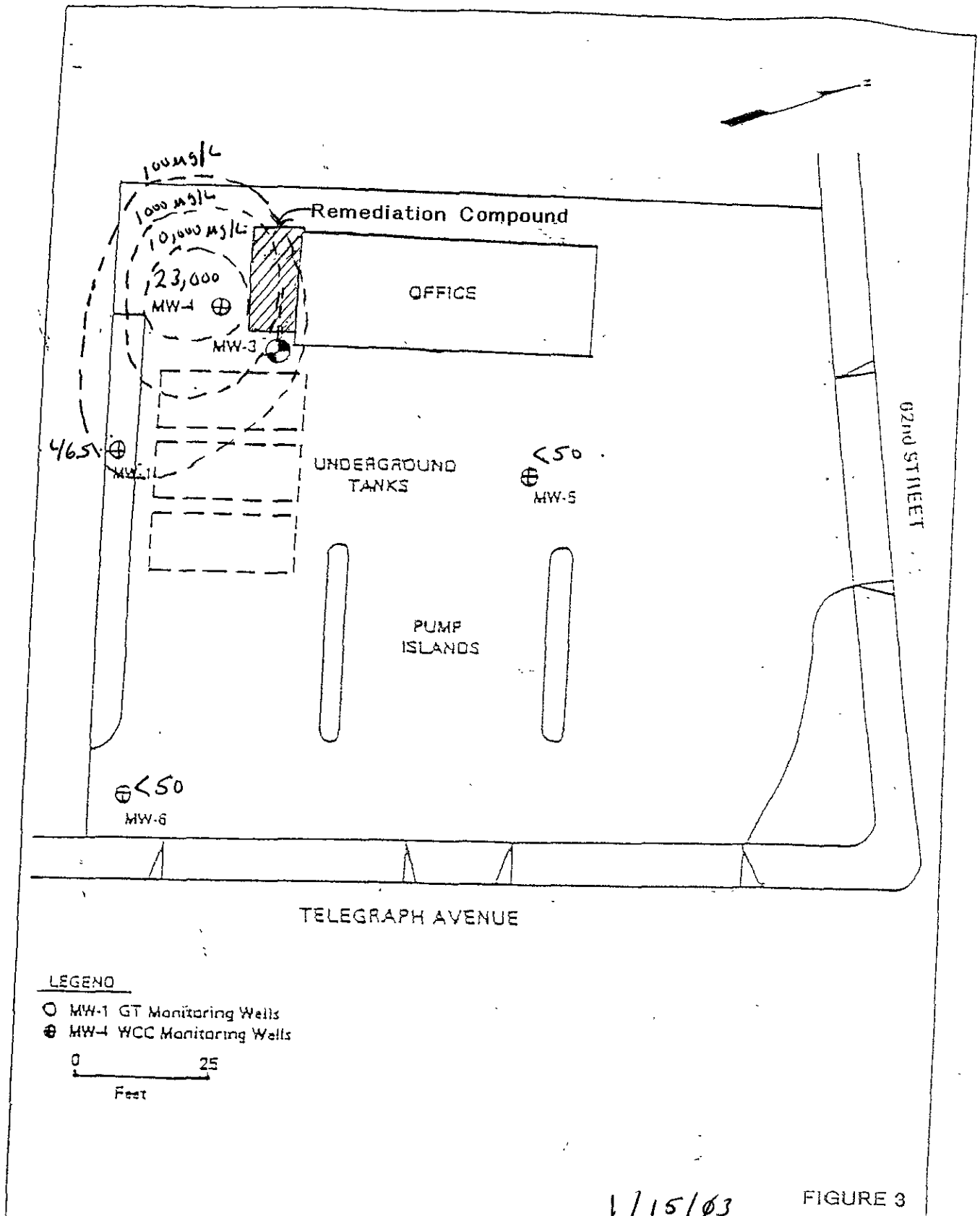


1/15/63 FIGURE 1

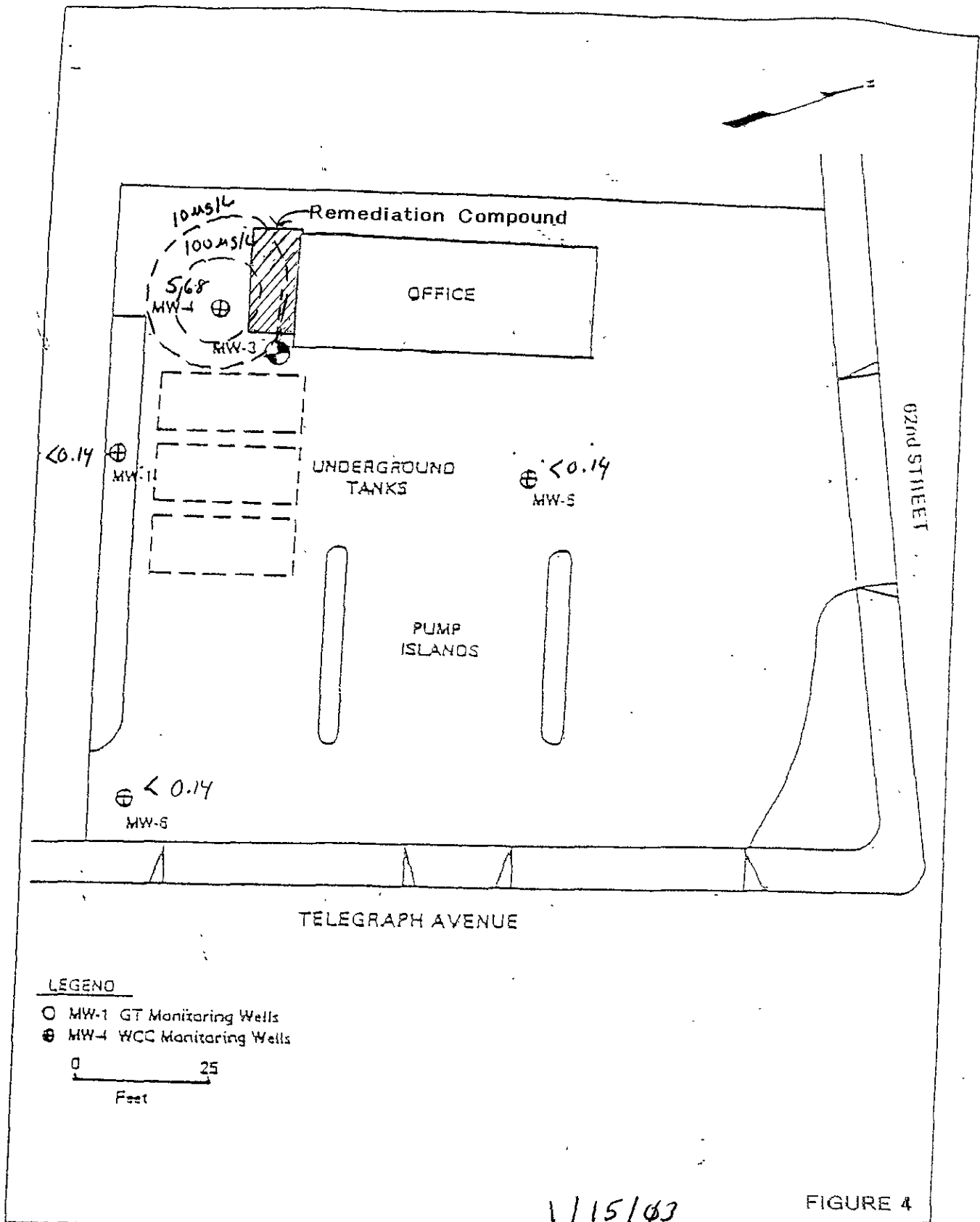
SITE PLAN AND RECOVERY SYSTEM
 THRIFTY SERVICE STATION NO. 63
 6125 TELEGRAPH AVE.
 OAKLAND, CA



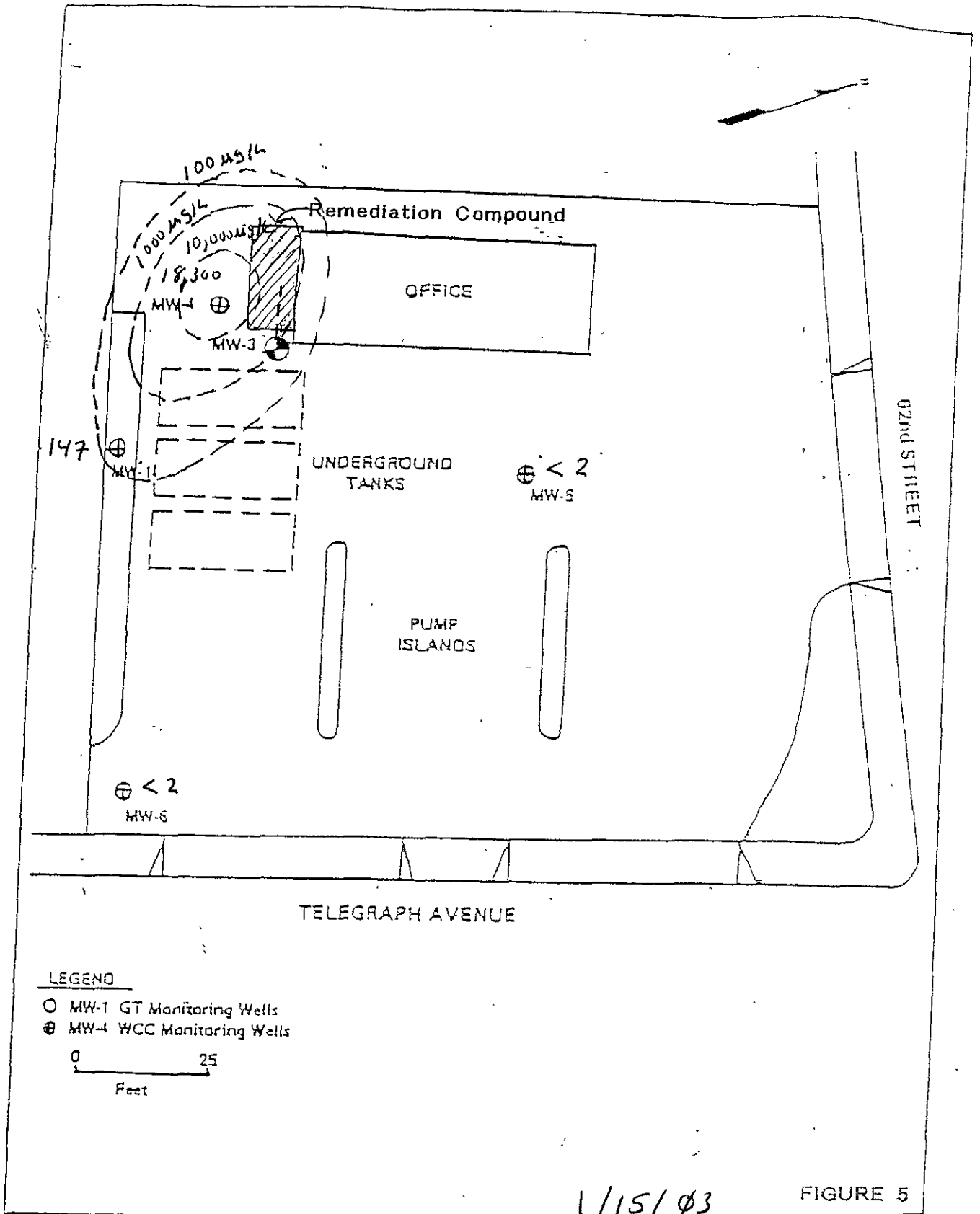
Groundwater Contour Map
 THRIFTY SERVICE STATION NO. 63
 6125 TELEGRAPH AVE.
 OAKLAND, CA



1/15/03
 FIGURE 3
 TPH-g Isoconcentration Map ug/L
 THRIFTY SERVICE STATION NO. 63
 6125 TELEGRAPH AVE.
 OAKLAND, CA



Benzene Isoconcentration Map ug/L
 THRIFTY SERVICE STATION NO. 63
 6125 TELEGRAPH AVE.
 OAKLAND, CA



MTBE Isoconcentration Map ug/L
 THRIFTY SERVICE STATION NO. 63
 6125 TELEGRAPH AVE.
 OAKLAND, CA

TABLES

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #063, OAKLAND, CA

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBE (ug/L)					
MONITORING WELL #MW-1											
11/21/86	-	-	-	-	-	-	15.42	NP	0.00	99.34	83.92
07/22/91	-	-	-	-	-	-	20.41	FILM	0.00	99.34	78.93
10/24/91	-	-	-	-	-	-	19.06	SHEEN	0.00	99.34	80.28
01/22/92	-	-	-	-	-	-	18.78	SHEEN	0.00	99.34	80.56
03/24/92	-	-	-	-	-	-	13.55	SHEEN	0.00	99.34	85.79
07/15/92	-	-	-	-	-	-	18.90	FILM	0.00	99.34	80.44
10/05/92	-	-	-	-	-	-	20.50	FILM	0.00	99.34	78.84
01/06/93	-	-	-	-	-	-	14.93	FILM	0.00	99.34	84.41
07/13/93	-	-	-	-	-	-	15.44	FILM	0.00	99.34	83.90
10/11/93	-	-	-	-	-	-	20.36	FILM	0.00	99.34	78.98
01/11/94	-	-	-	-	-	-	19.50	FILM	0.00	99.34	79.84
04/12/94	-	-	-	-	-	-	18.10	FILM	0.00	99.34	81.24
07/14/94	-	-	-	-	-	-	20.03	FILM	0.00	99.34	79.31
01/15/96	11,000	2,800	150	780	770	-	19.02	NP	0.00	99.34	80.32
04/15/96	17,000	3,600	330	1,500	3,400	-	18.82	NP	0.00	99.34	80.52
07/15/96	12,000	1,300	200	1,200	4,600	250	-	NP	-	-	-
10/09/96	-	-	-	-	-	-	14.87	NP	0.00	99.34	84.47
01/13/97	27,000	810	6,000	570	4,100	2,700	10.20	NP	0.00	99.34	89.14
04/14/97	2,900	3.0	2.9	<0.3	1.7	9,900	-	NP	-	-	-
07/07/97	5,200	0.57	0.57	<0.3	0.71	16,000	18.75	NP	0.00	99.34	80.59
10/16/97	680	<0.3	0.55	<0.3	<0.5	-	17.92	NP	0.00	99.34	81.42
01/07/98	42,000	980	2,800	1,200	5,200	1.3	9.80	NP	0.00	99.34	89.54
04/06/98	7,100	700	340	170	2,600	1,000	9.60	NP	0.00	99.34	89.74
07/14/98	19,000	2,100	400	890	5,800	1,600	13.70	NP	0.00	99.34	85.64
10/15/98	490	<0.3	<0.3	<0.3	<0.5	1,300	15.25	NP	0.00	99.34	84.09
01/20/99	350	<0.3	<0.3	<0.3	<0.5	* 670 / 820	12.20	NP	0.00	99.34	87.14
04/16/99	320	<0.3	<0.3	<0.3	<0.5	* 540 / 630	12.20	NP	0.00	99.34	87.14
07/14/99	290	<0.3	<0.3	<0.3	<0.5	*590 / 580	13.75	NP	0.00	99.34	85.59
10/07/99	130	<0.3	<0.3	<0.3	<0.5	270	12.15	NP	0.00	99.34	87.19
01/26/00	13,000	460	54	290	3,700	940	13.14	NP	0.00	99.34	86.20
04/19/00	546	<0.25	<0.25	<0.25	<0.5	*430 / 606	10.63	NP	0.00	99.34	88.71
05/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5	9.11	NP	0.00	99.34	90.23
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5	9.10	NP	0.00	99.34	90.24

**TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #063, OAKLAND, CA**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBK (ug/L)					
10/25/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	9.08	NP	0.00	99.34	90.26
01/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	12.16	NP	0.00	99.34	87.18
04/23/01	18,100	740	55	650	4,000	*1,850 / 842	10.60	NP	0.00	99.34	88.74
07/16/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	9.07	NP	0.00	99.34	90.27
10/17/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	12.16	NP	0.00	99.34	87.18
01/23/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	15.23	NP	0.00	99.34	84.11
04/10/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	15.17	NP	0.00	99.34	84.17
07/24/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	16.71	NP	0.00	99.34	82.63
10/30/02	<50	2.2	<0.14	<0.18	<0.26	13	15.16	NP	0.00	99.34	84.18
01/15/03	465 J	<0.14	<0.07	<0.08	<0.35	147	16.70	NP	0.00	99.34	82.64
MONITORING WELL #MW-2											
11/21/86	-	-	-	-	-	-	14.90	0.11	14.79	100.01	96.28
07/22/91	-	-	-	-	-	-	17.84	0.38	17.46	100.01	95.35
10/24/91	-	-	-	-	-	-	17.00	16.97	0.03	100.01	83.03
01/22/92	-	-	-	-	-	-	16.72	FILM	0.00	100.01	83.29
03/24/92	-	-	-	-	-	-	15.81	11.98	3.83	100.01	87.09
07/15/92	-	-	-	-	-	-	16.37	FILM	0.00	100.01	83.64
10/05/92	-	-	-	-	-	-	18.41	18.09	0.32	100.01	81.84
01/06/93	-	-	-	-	-	-	12.37	FILM	0.00	100.01	87.64
07/13/93	-	-	-	-	-	-	15.19	FILM	0.00	100.01	84.82
10/11/93	-	-	-	-	-	-	18.05	0.10	17.95	100.01	95.51
01/11/94	-	-	-	-	-	-	16.98	0.03	16.95	100.01	95.83
04/12/94	-	-	-	-	-	-	15.54	FILM	0.00	100.01	84.47
07/14/94	-	-	-	-	-	-	17.93	FILM	0.00	100.01	82.08
01/15/96	7,100	720	280	48	660	-	17.20	NP	0.00	100.01	82.81
04/15/96	11,000	600	59	420	870	-	17.26	NP	0.00	100.01	82.75
07/15/96	19,000	360	51	610	1,600	<250	-	-	-	-	-
10/09/96	-	-	-	-	-	-	14.42	NP	0.00	100.01	85.59
01/13/97	11,000	230	30	91	700	56	10.25	NP	0.00	100.01	89.76
04/14/97	141	1.2	0.33	0.44	<0.5	20	-	-	-	-	-
07/07/97	<50	<0.3	<0.3	<0.3	<0.5	<20	17.20	NP	0.00	100.01	82.81

**TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #063, OAKLAND, CA**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBE (ug/L)					
10/16/97	<50	<0.3	<0.3	<0.3	<0.5	-	16.20	NP	0.00	100.01	83.81
01/07/98	-	-	-	-	-	-	16.26	16.18	0.08	100.01	83.81
Well Abandoned 1/30/98											
MONITORING WELL #MW-3											
11/21/86	-	100	5.1	<1.0	25	-	16.25	0.10	16.15	99.76	95.70
07/22/91	-	-	-	-	-	-	24.00	NP	0.00	99.76	75.76
10/24/91	-	-	-	-	-	-	18.10	NP	0.00	99.76	81.66
01/22/92	-	-	-	-	-	-	25.80	SHEEN	0.00	99.76	73.96
03/24/92	-	-	-	-	-	-	15.60	NP	0.00	99.76	84.16
07/15/92	-	-	-	-	-	-	25.10	FILM	0.00	99.76	74.66
10/05/92	-	-	-	-	-	-	25.20	NP	0.00	99.76	74.56
01/06/93	-	-	-	-	-	-	25.45	NP	0.00	99.76	74.31
07/13/93	-	-	-	-	-	-	14.24	NP	0.00	99.76	85.52
10/11/93	-	-	-	-	-	-	25.60	NP	0.00	99.76	74.16
01/11/94	-	-	-	-	-	-	25.90	NP	0.00	99.76	73.86
04/12/94	-	-	-	-	-	-	25.70	NP	0.00	99.76	74.06
07/14/94	-	-	-	-	-	-	25.10	NP	0.00	99.76	74.66
01/15/96	-	-	-	-	-	-	26.04	NP	0.00	99.76	73.72
04/15/96	-	-	-	-	-	-	21.03	NP	0.00	99.76	78.73
07/15/96	5,900	240	30	270	730	780	-	-	-	-	-
10/09/96	-	-	-	-	-	-	21.43	NP	0.00	99.76	78.33
01/13/97	-	-	-	-	-	-	11.20	NP	0.00	99.76	88.56
07/07/97	-	-	-	-	-	-	23.40	NP	0.00	99.76	76.36
10/16/97	-	-	-	-	-	-	22.30	NP	0.00	99.76	77.46
01/07/98	-	-	-	-	-	-	20.10	NP	0.00	99.76	79.66
07/14/98	-	-	-	-	-	-	14.40	NP	0.00	99.76	85.36
10/15/98	-	-	-	-	-	-	-	-	-	-	-
01/20/99	-	-	-	-	-	-	-	-	-	-	-
04/16/99	-	-	-	-	-	-	11.20	NP	0.00	99.76	88.56
07/14/99	5,600	9.6	1.3	3.5	8.1	*14,000 / 14,000	25.87	NP	0.00	99.76	73.89
10/07/99	-	-	-	-	-	-	15.40	NP	0.00	99.76	84.36
01/26/00	-	-	-	-	-	-	14.25	NP	0.00	99.76	85.51
04/19/00	-	-	-	-	-	-	14.20	NP	0.00	99.76	85.56

**TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #063, OAKLAND, CA**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
05/26/00	-	-	-	-	-	-	15.12	NP	0.00	99.76	84.64
07/26/00	-	-	-	-	-	-	14.30	NP	0.00	99.76	85.46
10/25/00	-	-	-	-	-	-	14.32	NP	0.00	99.76	85.44
01/10/01	-	-	-	-	-	-	13.46	NP	0.00	99.76	86.30
04/23/01	-	-	-	-	-	-	-	-	-	-	-
07/16/01	-	-	-	-	-	-	12.80	NP	0.00	99.76	86.96
10/17/01	-	-	-	-	-	-	15.30	NP	0.00	99.76	84.46
01/23/02	-	-	-	-	-	-	-	-	-	-	-
04/10/02	-	-	-	-	-	-	13.22	NP	0.00	99.76	86.54
07/24/02	-	-	-	-	-	-	14.32	NP	0.00	99.76	85.44
10/30/02	-	-	-	-	-	-	16.20	NP	0.00	99.76	83.56
01/15/03	-	-	-	-	-	-	14.10	NP	0.00	99.76	85.66
MONITORING WELL #MW-4											
11/21/86	100,000	3,200	2,700	2,400	14,000	-	16.22	FILM	0.00	99.48	83.26
07/22/91	-	-	-	-	-	-	21.80	21.35	0.45	99.48	78.02
10/24/91	-	-	-	-	-	-	20.02	SHEEN	0.00	99.48	79.46
01/22/92	-	-	-	-	-	-	19.78	SHEEN	0.00	99.48	79.70
03/24/92	-	-	-	-	-	-	13.94	FILM	0.00	99.48	85.54
07/15/92	-	-	-	-	-	-	19.27	FILM	0.00	99.48	80.21
10/05/92	-	-	-	-	-	-	21.44	FILM	0.00	99.48	78.04
01/06/93	-	-	-	-	-	-	14.08	FILM	0.00	99.48	85.40
07/13/93	-	-	-	-	-	-	16.09	FILM	0.00	99.48	83.39
10/11/93	-	-	-	-	-	-	21.33	FILM	0.00	99.48	78.15
01/11/94	-	-	-	-	-	-	20.45	FILM	0.00	99.48	79.03
04/12/94	-	-	-	-	-	-	19.05	FILM	0.00	99.48	80.43
07/14/94	-	-	-	-	-	-	20.41	FILM	0.00	99.48	79.07
01/15/96	5,000	370	38	300	390	-	19.89	NP	0.00	99.48	79.59
04/15/96	38,000	300	78	540	470	-	19.62	NP	0.00	99.48	79.86
07/15/96	13,000	880	69	820	1,100	3,600	-	-	-	-	-
10/09/96	-	-	-	-	-	-	15.32	NP	0.00	99.48	84.16
01/13/97	47,000	2,500	2,500	1,100	2,800	70,000	10.80	NP	0.00	99.48	88.68
04/14/97	8,700	<0.3	0.45	<0.3	0.64	29,000	-	-	-	-	-

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #063, OAKLAND, CA

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
01/06/93	300	2.7	<0.5	1.3	26.0	-	13.12	NP	0.00	100.98	87.86
07/13/93	<100	1.1	0.5	1.0	1.5	-	16.15	NP	0.00	100.98	84.83
10/11/93	130	1.2	<0.3	<0.3	<0.6	-	18.75	NP	0.00	100.98	82.23
01/11/94	<50	1.5	<0.3	<0.3	<0.5	-	17.80	NP	0.00	100.98	83.18
04/12/94	<50	<0.3	<0.3	<0.3	<0.5	-	13.59	NP	0.00	100.98	87.39
07/14/94	<50	0.42	<0.3	<0.3	<0.5	-	18.26	NP	0.00	100.98	82.72
07/15/95	100	1.2	<0.5	0.8	<1	-	-	-	-	-	-
01/15/96	1,900	21	13	6.2	6.8	-	13.09	NP	0.00	100.98	87.89
04/15/96	250	5.1	2.7	1.7	1.1	-	13.16	NP	0.00	100.98	87.82
07/15/96	270	6.5	1.4	1.8	1.4	230	-	NP	-	-	-
10/09/96	-	-	-	-	-	-	15.37	NP	0.00	100.98	85.61
01/13/97	25,000	780	5,700	560	4,000	24,000	10.90	NP	0.00	100.98	90.08
04/14/97	6,300	260	1,600	28	550	9,000	-	-	-	-	-
07/07/97	7,500	300	1,500	12	110	16,000	14.70	NP	0.00	100.98	86.28
10/16/97	4,600	<0.3	0.65	<0.3	<0.5	-	13.60	NP	0.00	100.98	87.38
01/07/98	2,700	33	11	37	580	7.3	10.97	NP	0.00	100.98	90.01
04/08/98	300	9.1	<0.3	<0.3	<0.5	650	10.90	NP	0.00	100.98	90.08
07/14/98	670	5.9	<0.3	<0.3	0.53	2,300	15.20	NP	0.00	100.98	85.78
10/15/98	<50	<0.3	<0.3	<0.3	<0.5	19	15.90	NP	0.00	100.98	85.08
01/20/99	<50	<0.3	<0.3	<0.3	<0.5	<5	15.20	NP	0.00	101.98	86.78
04/16/99	<50	<0.3	<0.3	<0.3	<0.5	<5	15.25	NP	0.00	101.98	86.73
07/14/99	<50	<0.3	<0.3	<0.3	<0.5	<5	15.96	NP	0.00	101.98	86.02
10/07/99	<50	<0.3	<0.3	<0.3	<0.5	<5	16.33	NP	0.00	101.98	85.65
01/26/00	<50	<0.3	<0.3	<0.3	<0.5	<5	14.80	NP	0.00	101.98	87.18
04/19/00	965	<0.25	<0.25	<0.25	<0.5	<5	10.97	NP	0.00	101.98	91.01
05/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5	14.43	NP	0.00	101.98	87.55
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5	14.02	NP	0.00	101.98	87.96
10/25/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	14.04	NP	0.00	101.98	87.94
01/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	14.80	NP	0.00	101.98	87.18
04/23/01	<50	<0.18	<0.14	<0.18	<0.26	*10 / 4.2	10.97	NP	0.00	101.98	91.01
07/16/01	3,360	430	603	53	429	*41 / 4.2	14.80	NP	0.00	101.98	87.18
10/17/01	<50	<0.18	<0.14	<0.18	<0.26	*16 / 5.2	16.71	NP	0.00	101.98	85.27
01/23/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	14.80	NP	0.00	101.98	87.18
04/10/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	14.42	NP	0.00	101.98	87.56

**TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #063, OAKLAND, CA**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MIBE (ug/L)					
07/24/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	14.78	NP	0.00	101.98	87.20
10/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	15.93	NP	0.00	101.98	86.05
01/15/03	<50	<0.14	<0.07	<0.08	<0.35	<2.0	15.55	NP	0.00	101.98	86.43
MONITORING WELL #MW-6											
11/21/86	<1,000	<2.0	<2.0	<2.0	<2.0	-	12.64	NP	0.00	99.44	86.80
07/22/91	-	-	-	-	-	-	-	-	-	-	-
01/22/92	<200	<0.5	<0.5	<0.5	1.5	-	-	-	-	-	-
03/24/92	-	-	-	-	-	-	10.04	NP	0.00	99.44	89.40
07/15/92	<200	<0.5	<0.5	<0.5	<0.5	-	13.29	NP	0.00	99.44	86.15
10/05/92	-	-	-	-	-	-	14.69	NP	0.00	99.44	84.75
01/06/93	<200	<0.5	<0.5	<0.5	<1.0	-	10.87	NP	0.00	99.44	88.57
07/13/93	<100	<0.5	<0.5	<0.5	<1.0	-	13.10	NP	0.00	99.44	86.34
10/11/93	<60	<0.3	<0.3	<0.3	<0.6	-	14.43	NP	0.00	99.44	85.01
01/11/94	<50	<0.3	<0.3	<0.3	<0.5	-	13.56	NP	0.00	99.44	85.88
04/12/94	<50	<0.3	<0.3	<0.3	<0.3	-	12.10	NP	0.00	99.44	87.34
07/14/94	<50	<0.3	<0.3	<0.3	<0.3	-	14.16	NP	0.00	99.44	85.28
07/15/95	140	<0.5	<0.5	<0.5	<1	-	-	-	-	-	-
01/15/96	56	0.38	0.33	<0.3	<0.5	-	14.29	NP	0.00	99.44	85.15
04/15/96	96	4.5	<0.3	<0.3	0.53	-	14.32	NP	0.00	99.44	85.12
07/15/96	140	2.4	0.44	<0.3	0.70	110	-	-	-	-	-
10/09/96	-	-	-	-	-	-	12.09	NP	0.00	99.44	87.35
01/13/97	210	<0.3	1.2	<0.3	0.68	270	9.85	NP	0.00	99.44	89.59
04/14/97	<50	<0.3	<0.3	<0.3	<0.5	<20	-	-	-	-	-
07/07/97	<50	<0.3	<0.3	<0.3	<0.5	<20	14.20	NP	0.00	99.44	85.24
10/16/97	<50	<0.3	<0.3	<0.3	<0.5	-	13.10	NP	0.00	99.44	86.34
01/07/98	<50	<0.3	<0.3	<0.3	<0.5	0.10	9.80	NP	0.00	99.44	89.64
07/14/98	330	<0.3	<0.3	<0.3	<0.5	380	12.30	NP	0.00	99.44	87.14
10/15/98	<50	<0.3	<0.3	<0.3	<0.5	<5	14.30	NP	0.00	99.44	85.14
01/20/99	<50	0.47	<0.3	<0.3	<0.5	<5	13.60	NP	0.00	100.44	86.84
04/16/99	<50	<0.3	<0.3	<0.3	<0.5	<5	13.50	NP	0.00	100.44	86.94
07/14/99	<50	<0.3	<0.3	<0.3	<0.5	*5.4 / <5	14.65	NP	0.00	100.44	85.79
10/07/99	<50	<0.3	0.96	0.35	1.8	<5	15.39	NP	0.00	100.44	85.05

**TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #063, OAKLAND, CA**

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
01/26/00	<50	<0.3	<0.3	<0.3	0.63	<5	13.85	NP	0.00	100.44	86.59
04/19/00	83.1	<0.25	<0.25	<0.25	<0.5	*11 / <5	9.65	NP	0.00	100.44	90.79
05/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5	13.10	NP	0.00	100.44	87.34
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5	12.35	NP	0.00	100.44	88.09
10/25/00	<50	<0.18	<0.14	<0.18	<0.26	*7 / 10	12.30	NP	0.00	100.44	88.14
01/10/01	<50	<0.18	<0.14	<0.18	<0.26	78	13.45	NP	0.00	100.44	86.99
04/23/01	<50	<0.18	<0.14	<0.18	<0.26	*9 / 4	9.65	NP	0.00	100.44	90.79
07/16/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	13.09	NP	0.00	100.44	87.35
10/17/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	15.37	NP	0.00	100.44	85.07
01/23/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	13.27	NP	0.00	100.44	87.17
04/10/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	13.07	NP	0.00	100.44	87.37
07/24/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	13.86	NP	0.00	100.44	86.58
10/30/02	<50	1.6	<0.14	<0.18	<0.26	6.4	14.20	NP	0.00	100.44	86.24
01/15/03	<50	<0.14	<0.07	<0.08	0.84	<2.0	15.35	NP	0.00	100.44	85.09

NOTE: NP = No free hydrocarbon product
 " - " = Not analyzed / Not available
 * MTBE 8020 / 8260

Benzene, toluene, ethylbenzene, and xylene analyzed by EPA method 8020/8021B
 Total petroleum hydrocarbons (TPH) analyzed by EPA method 8015 modified for gasoline
 Methyl-tert Butyl Ether (MTBE) analyzed by EPA method 8020/8021B

TABLE 2
GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	EFFLUENT (ug/L)						INFLUENT (ug/L)					
				TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
4/8/91	1,669	0	-	-	<0.3	<0.3	<0.3	<0.9	-	-	1300	120	<7.5	1300	-
4/15/91	5,742	4,073	582	-	<0.3	<0.3	<0.3	<0.3	-	-	700	140	<15	500	-
4/22/91	10,240	8,571	643	-	<0.3	<0.3	<0.3	<0.9	-	-	850	100	34	860	-
4/29/91	15,510	13,841	753	-	<0.3	<0.3	<0.3	<0.9	-	-	220	8.4	<0.3	42	-
5/6/91	20,200	18,531	670	-	<0.3	<0.3	<0.3	<0.9	-	-	280	0.8	<0.3	56	-
5/13/91	24,430	22,761	604	-	<0.3	<0.3	<0.3	<0.9	-	-	190	5.6	<0.3	37	-
5/20/91	28,480	26,811	579	-	<0.3	<0.3	<0.3	<0.9	-	-	150	0.83	1.4	29	-
5/28/91	29,310	27,641	104	-	<0.3	<0.3	<0.3	<0.9	-	-	<0.3	<0.3	<0.3	<0.9	-
6/3/91	33,080	31,411	628	-	<0.3	<0.3	<0.3	<0.9	-	-	58	4	<0.3	33	-
6/10/91	36,939	35,270	551	-	<0.3	<0.3	<0.3	<0.9	-	-	45	<0.3	<0.3	16	-
6/17/91	40,673	39,004	533	-	<0.3	<0.3	<0.3	<0.9	-	-	69	4.9	0.9	21	-
6/24/91	44,453	42,784	540	-	<0.3	<0.3	<0.3	<0.9	-	-	5.4	2	<0.3	6.6	-
7/1/91	48,173	46,504	531	-	<0.5	<0.5	<1	<1	-	-	14	15	<1	9.1	-
7/8/91	51,681	50,012	501	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	6.9	-
7/15/91	55,186	53,517	501	-	<0.5	<0.5	<1	<1	-	-	<0.5	0.6	<1	6.3	-
7/22/91	62,150	60,481	995	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	2.6	-
7/29/91	62,150	60,481	-	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	1.2	19	-
8/5/91	63,241	61,572	156	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	<1	-
8/12/91	66,091	64,422	407	-	<0.5	<0.5	<1	<1	-	-	2.6	<0.5	<1	12	-
8/19/91	67,649	65,980	223	-	<0.5	<0.5	<1	<1	-	-	20	3.3	2.8	70	-
8/26/91	70,514	68,845	409	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	1.2	19	-
9/9/91	70,564	68,895	4	-	<0.5	<0.5	<1	<1	-	-	270	10	13	69	-
9/16/91	73,526	71,857	423	System shut down due to damaged compressor pump						-	-	-	-	-	-
10/7/91	73,526	71,857	-	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.8	-
10/14/91	74,516	72,847	141	-	<0.5	<0.5	<1	<1	-	-	60	1.1	<1	23	-
10/21/91	76,091	74,422	225	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	<1	-
10/28/91	83,242	81,573	1,022	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	14	-
11/3/91	83,242	81,573	-	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.1	-
11/11/91	84,351	82,682	139	-	<0.5	<0.5	<1	<1	-	-	99	1.9	<1	14	-
11/18/91	85,647	83,978	185	-	<0.5	<0.5	<1	<1	-	-	42	1	1	10	-
11/25/91	89,512	87,843	552	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.9	-
12/3/91	93,407	91,738	487	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.8	-
12/9/91	96,210	94,541	467	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.2	-
12/16/91	99,045	97,376	405	-	<0.5	<0.5	<0.5	<0.5	-	-	1.3	<0.5	<0.5	1.5	-
12/23/91	102,334	100,665	470	-	<0.5	<0.5	<0.5	<0.5	-	-	1.7	<0.5	<0.5	2.4	-
12/30/91	105,124	103,455	399	-	<0.5	<0.5	<0.5	<0.5	-	-	22.6	1.2	0.7	4.9	-
1/15/92	115,691	114,022	660	-	<0.5	<0.5	<0.5	<0.5	-	-	130	11	<0.5	50	-
2/10/92	124,846	123,177	352	-	<0.5	<0.5	<0.5	<0.5	-	-	20	0.51	<0.5	3.6	-
3/9/92	149,965	148,296	897	<200	<0.5	<0.5	<0.5	<0.5	-	12,000	2,100	400	170	2,100	-
4/13/92	168,567	166,898	531	<200	<0.5	<0.5	<0.5	<0.5	-	2,100	280	3.9	<2.5	98	-
5/11/92	187,170	185,501	664	<200	<0.5	0.7	<0.5	<0.5	-	<200	<0.5	<0.5	<0.5	<0.5	-
6/8/92	190,490	188,821	119	-	<0.5	<0.5	<0.5	<0.5	-	-	44	3.7	0.7	64	-
7/6/92	197,080	195,411	235	-	-	-	-	-	-	-	-	-	-	-	-
7/13/92	197,890	196,221	116	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-

TABLE 2
GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum Discharge (gallons)	Flow (gal/day)	EFFLUENT (ug/L)						INFLUENT (ug/L)					
				TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
7/13/92	197,890	196,221	-	System shut down for repair of electrical motor											
8/10/92	197,890	196,221	-	Restart the system											
8/17/92	201,300	199,631	487	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-
9/14/92	209,647	207,978	298	-	<0.5	<0.5	<0.5	<1	-	-	<0.5	<0.5	<0.5	<1	-
10/5/92	217,360	215,691	367	<200	<0.5	<0.5	<0.5	<1	-	<200	<0.5	<0.5	<0.5	<1	-
11/09/92	225,780	224,111	241	-	<0.5	<0.5	<0.5	<1	-	-	1.1	0.5	<0.5	10	-
12/14/92	243,048	241,379	493	-	<0.5	<0.5	<0.5	<1	-	-	720	46	<10	1,700	-
01/04/93	252,510	250,841	451	-	<0.5	<0.5	<0.5	<1	-	-	400	32	<25	520	-
02/15/93	266,210	264,541	326	<200	<0.5	<0.5	<0.5	<1	-	9,000	1,400	330	260	1,200	-
03/08/93	269,330	267,661	149	-	<0.5	<0.5	<0.5	<1	-	-	1,100	150	7.5	1,000	-
04/26/93	271,290	269,621	40	<100	<0.5	<0.5	<0.5	<1	-	7,200	1,100	100	25	780	-
04/26/93	271,290	269,621	-	System shut down for repair											
07/15/93	272,577	270,908	16	Restart the system											
08/11/93	284,230	282,561	432	-	<0.5	<0.5	<0.5	<1	-	-	1.3	<0.5	<0.5	1.6	-
09/16/93	298,832	297,163	406	<60	<0.3	<0.3	<0.3	<0.6	-	<60	<0.3	<0.3	<0.3	<0.6	-
10/06/93	305,641	303,972	310	-	-	-	-	-	-	-	-	-	-	-	-
10/11/93	307,068	305,399	476	<60	<0.3	<0.3	<0.3	<0.6	-	<60	<0.3	<0.3	<0.3	<0.6	-
10/15/93	308,495	306,826	357	-	-	-	-	-	-	-	-	-	-	-	-
11/12/93	318,203	316,534	347	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
12/10/93	329,947	328,278	419	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
01/13/94	345,860	344,191	468	-	<0.3	<0.3	<0.3	<0.5	-	-	<0.3	<0.3	<0.3	<0.5	-
02/10/94	359,662	357,993	493	-	<0.3	<0.3	<0.3	<0.5	-	-	430	41	36	480	-
02/18/94	618,620	-	-	Changed air filters. The water flowmeter jumped from 359,662 to 618,620											
03/10/94	627,540	366,913	446	-	<0.3	<0.3	<0.3	<0.5	-	-	<0.3	<0.3	<0.3	7.7	-
04/14/94	645,330	384,703	508	<50	<0.3	<0.3	<0.3	<0.5	-	170	1.5	<0.3	0.38	0.73	-
05/19/94	653,520	392,893	234	<50	<0.3	<0.3	<0.3	<0.5	-	1,500	46	4.1	0.5	84	-
06/16/94	664,015	403,388	375	<50	<0.3	<0.3	<0.3	<0.5	-	12,000	860	37	<13	1,600	-
07/14/94	672,750	412,123	312	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
08/11/94	681,920	421,293	328	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
09/15/94	692,083	431,456	290	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
10/17/94	699,979	439,352	247	<50	<0.3	<0.3	<0.5	<0.5	-	<50	<0.3	<0.3	<0.5	<0.5	-
11/14/94	712,539	451,912	449	<50	<0.3	<0.3	<0.5	<0.5	-	<50	<0.3	<0.3	<0.5	<0.5	-
12/19/94	734,620	473,993	631	<50	<0.3	<0.3	<0.5	<0.5	-	<50	<0.3	<0.3	<0.5	<0.5	-
01/10/95	742,072	481,445	339	-	-	-	-	-	-	-	-	-	-	-	-
01/16/95	742,074	481,447	0	System shut down for repair of compressor pump											
02/06/95	742,074	481,447	-	Restart the system											
02/13/95	744,063	483,436	284	<50	<0.3	<0.3	<0.5	<0.5	-	<50	<0.3	<0.3	<0.5	<0.5	-
03/13/95	758,930	498,303	531	<100	<0.5	<0.5	<0.5	<1	-	1,300	<0.5	<0.5	<0.5	<1	-
04/17/95	768,276	507,649	267	<100	<0.5	<0.5	<0.5	<1	-	6,200	410	73	97	280	-
05/15/95	780,716	520,089	444	<100	<0.5	<0.5	<0.5	<1	-	1,300	0.6	<0.5	<0.5	<1	-
06/12/95	784,514	523,887	136	<100	<0.5	<0.5	<0.5	<1	-	<100	<0.5	<0.5	<0.5	<1	-
07/18/95	794,158	533,531	268	<100	<0.5	<0.5	<0.5	<1	-	1,100	<0.5	<0.5	<0.5	<1	-
08/14/95	795,216	534,589	39	<100	<0.5	<0.5	<0.5	<1	-	170	<0.5	<0.5	<0.5	<1	-
09/06/95	797,631	537,004	105	<100	<0.5	<0.5	<0.5	<1	-	1,320	<0.5	<0.5	<0.5	<1	-

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GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	EFFLUENT (ug/L)						INFLUENT (ug/L)						
				TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE	
10/17/95	800,316	539,689	65	<100	<0.5	<0.5	<0.5	<1	-	2,400	26	27	39	46	-	
11/20/95	806,264	545,637	175	150	<0.3	<0.3	<0.3	<0.5	-	450	0.31	<0.3	<0.3	<0.5	-	
12/11/95	809,236	548,609	142	300	<0.3	<0.3	<0.3	0.59	-	470	<0.3	<0.3	<0.3	<0.5	-	
01/15/96	822,734	562,107	386	510	<0.3	<0.3	<0.3	<0.5	-	900	0.39	<0.3	<0.3	<0.5	-	
02/19/96	848,213	587,586	728	800	<0.3	0.57	<0.3	0.83	-	1700	23	37	<0.3	80	-	
03/19/96	849,587	588,960	47	930	<0.3	<0.3	<0.3	<0.5	-	1,600	5.5	1.4	<0.3	94	-	
04/15/96	852,042	591,415	91	990	<0.3	<0.3	<0.3	<0.5	-	1,100	0.43	<0.3	<0.3	<0.5	-	
05/13/96	890,214	629,587	1,363	840	<0.3	<0.3	<0.3	<0.5	-	910	<0.3	<0.3	<0.3	<0.5	-	
05/13/96	890,214	629,587	-	System shut down for carbon change												
06/14/96	890,214	629,587	-	Restart the system												
06/18/96	890,818	630,191	151	<50	<0.3	<0.3	<0.3	<0.5	-	1,000	92	87	34	55	-	
07/01/96	892,781	632,154	151	-	-	-	-	-	-	-	-	-	-	-	-	
07/08/96	894,210	633,583	204	System shut down due to burglary and damaged air compressor												
08/05/96	894,210	633,583	-	Restart the system												
08/13/96	896,220	635,593	251	<50	<0.3	<0.3	<0.3	<0.5	-	3,500	160	110	220	650	-	
09/23/96	899,410	638,783	78	<50	<0.3	<0.3	<0.3	<0.5	-	<50	0.49	<0.3	<0.3	<0.5	-	
10/09/96	899,845	639,218	27	<50	<0.3	<0.3	<0.3	<0.5	-	730	1.7	0.42	2.1	2.5	-	
11/11/96	901,348	640,721	46	<50	<0.3	<0.3	<0.3	<0.5	-	81	<0.3	<0.3	<0.3	<0.5	-	
12/09/96	901,576	640,949	8	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-	
01/13/97	904,630	644,003	87	<50	<0.3	<0.3	<0.3	<0.5	-	13,000	590	250	180	850	-	
02/10/97	912,610	651,983	285	82	<0.3	0.38	<0.3	<0.5	-	700	0.92	0.75	<0.3	4.1	-	
03/10/97	921,020	660,393	300	<50	<0.3	<0.3	<0.3	<0.5	-	600	<0.3	<0.3	<0.3	<0.5	-	
04/14/97	932,410	671,783	325	<50	<0.3	<0.3	<0.3	<0.5	-	4,400	<0.3	<0.3	<0.3	<0.5	-	
05/12/97	941,028	680,401	308	<50	<0.3	<0.3	<0.3	<0.5	-	5,600	7.3	0.32	<0.3	17	-	
06/23/97	943,183	682,566	51	-	-	-	-	-	-	-	-	-	-	-	-	
07/07/97	945,821	685,194	188	<50	<0.3	<0.3	<0.3	<0.5	-	1,500	3.4	<0.3	<0.3	26	-	
08/04/97	951,020	690,393	186	-	-	-	-	-	-	-	-	-	-	-	-	
09/02/97	957,933	697,306	238	System shut down due to stolen air compressor												
10/06/97	961,030	700,403	91	-	-	-	-	-	-	-	-	-	-	-	-	
10/16/97	961,077	700,450	5	<50	<0.3	<0.3	<0.3	<0.5	-	550	<0.3	<0.3	<0.3	<0.5	-	
11/17/97	970,920	710,293	308	-	-	-	-	-	-	-	-	-	-	-	-	
12/23/97	986,016	725,389	419	-	-	-	-	-	-	-	-	-	-	-	-	
01/05/98	991,520	730,893	423	-	-	-	-	-	-	-	-	-	-	-	-	
01/07/98	992,365	731,738	423	<50	<0.3	<0.3	<0.3	<0.5	-	65,000	690	8,400	3,100	20,000	-	
02/02/98	996,874	736,247	173	-	-	-	-	-	-	-	-	-	-	-	-	
02/09/98	-	-	-	System shut down due to the UST replacement and station remodeling												
02/17/98	-	-	-	<50	<0.3	<0.3	<0.3	<0.5	-	35,000	150	<15	<15	8,900	-	
04/13/98	53,000	736,247	-	Replaced carbons and restarted system with new meter (53,000)												
4/13 - 6/1/98	-	-	-	System was undergoing several maintenance / piping / hose replacement												
06/01/98	53,780	737,027	16	-	-	-	-	-	-	-	-	-	-	-	-	
07/14/98	56,905	740,152	73	<50	<0.3	<0.3	<0.3	<0.5	-	3,500	14	0.56	<0.3	26	-	
08/13/98	59,426	742,673	84	-	-	-	-	-	-	-	-	-	-	-	-	
09/11/98	62,356	745,603	101	-	-	-	-	-	-	-	-	-	-	-	-	
10/15/98	62,714	745,961	11	<50	<0.3	<0.3	<0.3	<0.5	-	2,200	21	4	<0.3	100	-	

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Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	EFFLUENT (ug/L)						INFLUENT (ug/L)					
				TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
11/06/98	62,952	746,199	11	-	-	-	-	-	-	-	-	-	-	-	-
11/20/98	-	-	-	System shut down for flowmeter replacement											
12/01/98	0.0	746,199	-	Restart the system with flowmeter at 000											
12/31/98	5,340.0	751,539	178	-	-	-	-	-	-	-	-	-	-	-	-
01/11/99	15,020.0	761,219	880	System shut down											
1/11 - 2/1/99	-	-	-	System was undergoing maintenance for the compressor											
01/20/99	-	-	-	<50	<0.3	<0.3	<0.3	<0.5	-	110	0.43	0.42	<0.3	<0.5	260
02/01/99	15,600.0	761,799	28	Restart system											
02/12/99	22,840.0	769,039	658	-	-	-	-	-	-	-	-	-	-	-	-
02/22/99	22,840.0	769,039	-	System shut down for carbon canister replacement											
03/26/99	22,840.0	769,039	-	Restart the system											
03/31/99	24,620.0	770,819	356	-	-	-	-	-	-	-	-	-	-	-	-
04/16/99	29,605.0	775,804	312	<50	<0.3	<0.3	<0.3	<0.5	<5	<50	<0.3	<0.3	<0.3	<0.5	<5
05/11/99	36,010.0	782,209	256	-	-	-	-	-	-	-	-	-	-	-	-
05/25/99	46,000.0	792,199	714	System shut down due to carbon canister leaking											
09/02/99	46,000.0	792,199	-	Restart system											
09/17/99	46,217.0	792,416	14	-	-	-	-	-	-	-	-	-	-	-	-
10/07/99	48,809.0	793,008	30	<50	<0.3	<0.3	<0.3	<0.5	11	65	<0.3	<0.3	<0.3	<0.5	120
10/21/99	47,278.0	793,477	34	System shut down for carbon change											
11/24/99	47,283.0	793,482	0	Restart system											
12/30/99	49,386.0	795,586	58	-	-	-	-	-	-	-	-	-	-	-	-
01/26/00	50,569.0	796,768	44	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
02/25/00	51,983.0	798,182	47	-	-	-	-	-	-	-	-	-	-	-	-
03/24/00	54,603.0	800,802	94	-	-	-	-	-	-	-	-	-	-	-	-
04/19/00	56,754.0	802,953	83	<5	<0.25	<0.25	<0.25	<0.5	-	<50	1.3	<0.25	<0.25	<0.5	<5
04/30/00	58,022.0	804,221	115	-	-	-	-	-	-	-	-	-	-	-	-
05/26/00	60,086.0	806,285	79	-	-	-	-	-	-	923	<0.6	2	85	80	*8,350/4,810
06/16/00	61,889.0	808,088	86	<50	<0.3	<0.3	<0.3	<0.6	<5	3,820	<0.3	<0.3	<0.3	<0.6	3,740
07/26/00	65,987.0	812,186	102	<50	<0.3	<0.3	<0.3	<0.6	<5	<50	<0.3	<0.3	<0.3	<0.6	<5
08/25/00	68,630.0	814,829	88	-	-	-	-	-	-	-	-	-	-	-	-
09/29/00	85,661.0	831,860	487	-	-	-	-	-	-	-	-	-	-	-	-
10/13/00	96,212.0	842,411	754	-	-	-	-	-	-	-	-	-	-	-	-
10/20/00	99,700.0	845,899	498	Shut down system for QWS and replaced flowmeter starting at 000 (old meter estimated at 99,700) System restarted on 10/25/00 after QWS											
10/25/00	0.0	845,899	-	<50	<0.18	<0.14	<0.18	<0.26	<0.24	17,100	111	121	141	972	998
10/27/00	2,160	848,059	1,080	-	-	-	-	-	-	-	-	-	-	-	-
11/03/00	7,420	853,319	751	-	-	-	-	-	-	-	-	-	-	-	-
11/24/00	16,560	862,459	435	-	-	-	-	-	-	-	-	-	-	-	-
12/22/00	51,530	897,429	1,249	-	-	-	-	-	-	-	-	-	-	-	-
01/10/01	54,520	900,419	157	<50	<0.18	<0.14	<0.18	<0.26	<0.24	10,000	384	223	<0.18	1,330	11,600
02/19/01	99,640	945,539	1,128	-	-	-	-	-	-	-	-	-	-	-	-
03/19/01	144,170	990,069	1,590	-	-	-	-	-	-	-	-	-	-	-	-
04/09/01	167,050	1,012,949	1,090	378	<0.18	<0.14	<0.18	<0.26	475	4,040	191	4	42	38	4,990
04/13/01	169,210	1,015,109	540	Shut down system for replacement of carbon drums											
04/18/01	169,210	1,015,109	-	Restart system											

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				TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
04/23/01	177,140	1,023,039	1,586	93	<0.18	<0.14	<0.18	<0.26	132	1,400	<0.18	<0.14	<0.18	<0.26	3,240
05/02/01	186,800	1,032,699	1,073	Shut down system for carbon change											
05/18/01	186,900	1,032,799	6	Restart system											
05/30/01	200,850	1,046,749	1,163	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3,100	15	<0.14	1	2	*8,510 / 5,780
06/25/01	266,720	1,112,619	2,533	-	-	-	-	-	-	-	-	-	-	-	-
07/09/01	278,760	1,124,659	860	<50	<0.18	<0.14	<0.18	<0.26	<0.24	748	15	<0.14	2	2.7	1,440
08/13/01	399,700	1,245,599	3,455	-	-	-	-	-	-	-	-	-	-	-	-
09/24/01	451,240	1,297,139	1,227	-	-	-	-	-	-	-	-	-	-	-	-
10/01/01	488,310	1,334,209	5,296	<50	<0.18	<0.14	<0.18	<0.26	<0.24	956	1.2	<0.14	<0.18	<0.26	878
11/12/01	636,260	1,482,159	3,523	-	-	-	-	-	-	-	-	-	-	-	-
12/31/01	674,080	1,519,979	772	-	-	-	-	-	-	-	-	-	-	-	-
01/14/02	688,450	1,534,349	1,026	<50	<0.18	<0.14	<0.18	<0.26	<0.24	232	1	1	<0.18	<0.26	363
02/18/02	738,420	1,584,319	1,428	-	-	-	-	-	-	-	-	-	-	-	-
03/25/02	814,570	1,660,469	2,176	-	-	-	-	-	-	-	-	-	-	-	-
04/08/02	828,510	1,674,409	996	<50	<0.18	<0.14	<0.18	<0.26	<0.24	105	<0.18	<0.14	<0.18	<0.26	157
04/22/02	895,910	1,741,809	4,814	-	-	-	-	-	-	-	-	-	-	-	-
05/06/02	895,920	1,741,819	1	System off, Restart											
05/13/02	929,130	1,775,029	4,744	-	-	-	-	-	-	-	-	-	-	-	-
06/03/02	-	-	-	-	<0.5	<0.7	<0.8	<3.3	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
06/03/02	993,740	1,839,639	3,077	<50	<0.18	<0.14	<0.18	<0.26	<0.24	Split-sample results (sample collected by us)					
06/24/02	1,001,590	1,847,489	374	-	-	-	-	-	-	-	-	-	-	-	-
07/08/02	-	-	-	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4,710	1	1.2	<0.18	2	6,980
07/12/02	1,051,430	1,897,329	2,769	-	-	-	-	-	-	-	-	-	-	-	-
07/29/02	1,052,820	1,898,719	82	System shut down for carbon change											
08/16/02	1,052,820	1,898,719	-	Restart											
08/30/02	1,069,050	1,914,949	1,159	-	-	-	-	-	-	-	-	-	-	-	-
09/20/02	-	-	-	Sample results from EBMUD not received yet						Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
09/20/02	1,106,410	1,952,309	1,779	<50	<0.1	<0.15	<0.06	-	-	Split-sample results (sample collected by us, analysis by EPA 624 & 8015M)					
09/30/02	1,110,180	1,956,079	377	-	-	-	-	-	-	-	-	-	-	-	-
10/07/02	1,114,720	1,960,619	649	<50	<0.18	<0.14	<0.18	<0.26	<0.24	128	<0.18	<0.14	<0.18	<0.26	95
10/28/02	1,127,540	1,973,439	610	-	-	-	-	-	-	-	-	-	-	-	-
11/25/02	1,149,730	1,995,629	793	-	-	-	-	-	-	-	-	-	-	-	-
12/20/02	1,166,840	2,012,739	684	-	-	-	-	-	-	-	-	-	-	-	-
12/30/02	1,173,420	2,019,319	658	-	-	-	-	-	-	-	-	-	-	-	-
01/06/03	1,182,610	2,028,509	1,313	<50	<0.14	1.2	<0.08	2.4	<2.0	9,860	<1.4	29	14	2,420	205
01/13/03	1,189,320	2,035,219	959	Shut down for QWS											
01/15/03	1,189,320	2,035,219	-	Restart											
02/24/03	1,223,450	2,069,349	853	-	-	-	-	-	-	-	-	-	-	-	-
03/10/03	1,238,640	2,084,539	1,085	System shut down on 3/17/03											

WD PERMIT LIMITS:	NE	50	50	50	50	NE
--------------------------	----	----	----	----	----	----

TABLE 2
GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	EFFLUENT (ug/L)						INFLUENT (ug/L)							
				TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE		

Note: < = less than laboratory detection level indicated TPH is analyzed by EPA Method 8015 M
 - = no sample / not analyzed BTEX is analyzed by EPA Method 602 or 8020
 NE = Permit Limit not established *MTBE 8020/8260
 In February 2000, the total cumulative discharge amount was corrected to reflect all system maintenance and flowmeter changeouts since the startup of the system. The total number may be different from previous versions of this table.

APPENDIX A

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site: <u>063</u>	Date: <u>01.15.03</u>
Address: _____	
Personnel: <u>SERBAN</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>MW-1</u>	Equip: <u>BATLER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>28.96</u>	Well Diameter	<u>2"</u>
Depth to Water (ft)	<u>16.70</u>	Est. Purge Volume:	<u>8</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	10:03	10:04	10:05	10:06	10:07	10:08	10:10
EC	1470	1450	1430	1410	1430	1420	1430
pH	6.03	6.01	5.83	5.81	5.83	5.83	5.81
Temp	70.1	69.9	69.7	69.6	69.6	69.3	69.3
Gal.	1	2	3	4	5	6	8
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	<u>19.30</u>	Total Well Depth(ft.)	<u>28.96</u>

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site: <u>063</u>	Date: <u>01.15.03</u>
Address: _____	
Personnel: <u>SERBAN</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>MW-5</u>	Equip: <u>BUTLER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>26.26</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>15.55</u>	Est. Purge Volume:	<u>28</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>9:36</u>	<u>9:40</u>	<u>9:44</u>	<u>9:48</u>	<u>9:52</u>	<u>9:56</u>	<u>10:00</u>
EC	<u>1590</u>	<u>1580</u>	<u>1590</u>	<u>1560</u>	<u>1560</u>	<u>1530</u>	<u>1530</u>
pH	<u>6.13</u>	<u>6.13</u>	<u>6.15</u>	<u>6.14</u>	<u>6.13</u>	<u>6.14</u>	<u>6.15</u>
Temp	<u>72.3</u>	<u>72.1</u>	<u>72.1</u>	<u>71.9</u>	<u>71.8</u>	<u>71.8</u>	<u>71.7</u>
Gal.	<u>4</u>	<u>8</u>	<u>12</u>	<u>16</u>	<u>20</u>	<u>24</u>	<u>28</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.) <u>18.07</u>	Total Well Depth(ft.) <u>26.26</u>

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	063	Date:	01.15.03
Address:			
Personnel:	SERBOM	Weather:	SUNNY DAY
Well No:	MW-4	Equip:	BAUER

Before Purging:			
Total Well Depth: (ft.)	29.10	Well Diameter	24
Depth to Water (ft)	16.84	Est. Purge Volume:	8

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	10:13	10:14	10:15	10:16	10:17	10:18	10:20
EC	1370	1360	1320	1330	1350	1370	1390
pH	6.13	6.14	6.17	6.15	6.14	6.16	6.17
Temp	71.3	70.7	70.6	70.6	70.4	70.3	70.1
Gal.	1	2	3	4	5	6	8
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	18.20
Total Well Depth (ft.)	29.10

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

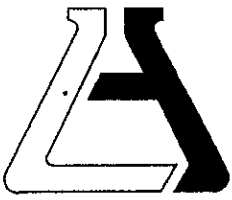
Site:	063	Date:	01.15.03
Address:			
Personnel:	SERBIM,	Weather:	SUNNY DAY
Well No:	MW-6	Equip:	BUTLER

Before Purging:			
Total Well Depth: (ft.)	26.83	Well Diameter	4.4
Depth to Water (ft)	15.35	Est. Purge Volume:	30

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	9:04	9:08	9:12	9:17	9:21	9:25	9:30
EC	1450	1430	1410	1430	1450	1470	1450
pH	6.14	6.12	6.13	6.11	6.15	6.11	6.13
Temp	70.1	69.9	69.7	69.6	69.6	69.4	69.4
Gal.	4	8	12	14	21	25	30
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	17.03
Total Well Depth (ft.)	26.83

APPENDIX B



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Thrifty Oil Co. (8871)
ATTN: Jeff Suryakusuma
13116 Imperial Hwy.
P.O. Box 2128
Santa Fe Springs, CA 90670

LAB REQUEST 105322

REPORTED 01/28/2003

RECEIVED 01/20/2003

PROJECT Station #63
6125 Telegraph Ave., Oakland

SUBMITTER Client

COMMENTS Global ID: T0600101366

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
406716	TOC #063 MW6
406717	TOC #063 MW5
406718	TOC #063 MW1
406719	TOC #063 MW4
406720	TOC #063 Trip Blank
406721	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 406716

Client Sample ID: TOC #063 MW6

Matrix: WATER

Date Sampled: 01/15/2003 Time Sampled: 13:30

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX

Benzene	ND	1	0.3	0.14	ug/L	01/24/03 LZ
Ethyl benzene	ND	1	0.3	0.08	ug/L	01/24/03 LZ
Methyl t - butyl ether	ND	1	5	2.0	ug/L	01/24/03 LZ
Toluene	ND	1	0.3	0.07	ug/L	01/24/03 LZ
Xylene (total)	0.84	1	0.6	0.35	ug/L	01/24/03 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	01/24/03 LZ
----------	----	---	----	----	------	-------------

Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	101			%	55 - 156

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace



Order #: 406717

Client Sample ID: TOC #063 MW5

Matrix: WATER

Date Sampled: 01/15/2003 Time Sampled: 13:40

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX

Benzene	ND	1	0.3	0.14 ug/L	01/24/03 LZ
Ethyl benzene	ND	1	0.3	0.08 ug/L	01/24/03 LZ
Methyl t - butyl ether	ND	1	5	2.0 ug/L	01/24/03 LZ
Toluene	ND	1	0.3	0.07 ug/L	01/24/03 LZ
Xylene (total)	ND	1	0.6	0.35 ug/L	01/24/03 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	01/24/03 LZ
----------	----	---	----	---------	-------------

Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	101			%	55 - 156

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace



Order #: 406718

Client Sample ID: TOC #063 MW1

Matrix: WATER

Date Sampled: 01/15/2003 Time Sampled: 13:50

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX

Benzene	ND	1	0.3	0.14	ug/L	01/24/03 LZ
Ethyl benzene	ND	1	0.3	0.08	ug/L	01/24/03 LZ
Methyl t - butyl ether	147	10	50.0	2.0	ug/L	01/24/03 LZ
Toluene	ND	1	0.3	0.07	ug/L	01/24/03 LZ
Xylene (total)	ND	1	0.6	0.35	ug/L	01/24/03 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	465 J	10	500.0	50	ug/L	01/24/03 LZ
----------	-------	----	-------	----	------	-------------

Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	99			%	55 - 156

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace



Order #: 406719

Client Sample ID: TOC #063 MW4

Matrix: WATER

Date Sampled: 01/15/2003 Time Sampled: 14:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX

Benzene	568	20	6.0	0.14	ug/L	01/24/03 LZ
Ethyl benzene	832	20	6.0	0.08	ug/L	01/24/03 LZ
Methyl t - butyl ether	18300	1000	5000.0	2.0	ug/L	01/24/03 LZ
Toluene	39	20	6.0	0.07	ug/L	01/24/03 LZ
Xylene (total)	268	20	12.0	0.35	ug/L	01/24/03 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	23000	20	1000.0	50	ug/L	01/24/03 LZ
----------	-------	----	--------	----	------	-------------

Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	142			%	55 - 156

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace



Order #: 406720

Client Sample ID TOC #063 Trip Blank

Matrix: WATER

Date Sampled: 01/15/2003 Time Sampled: 13:30

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX

Benzene	ND	1	0.3	0.14 ug/L	01/24/03 LZ
Ethyl benzene	ND	1	0.3	0.08 ug/L	01/24/03 LZ
Toluene	ND	1	0.3	0.07 ug/L	01/24/03 LZ
Xylene (total)	ND	1	0.6	0.35 ug/L	01/24/03 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	01/24/03 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	99			%	55 - 156

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace



Order #: 406721

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX

Benzene	ND	1	0.3	0.14 ug/L	01/24/03 LZ
Ethyl benzene	ND	1	0.3	0.08 ug/L	01/24/03 LZ
Methyl t - butyl ether	ND	1	5	2.0 ug/L	01/24/03 LZ
Toluene	ND	1	0.3	0.07 ug/L	01/24/03 LZ
Xylene (total)	ND	1	0.6	0.35 ug/L	01/24/03 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	01/24/03 LZ
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	106			%	55 - 156

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace



ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS / LCSD
 Matrix: WATER
 Prep. Date: 01/23/03
 Analysis Date: 01/23/03
 LAB ID#'s in Batch: LR 105323, 105322

REPORTING UNITS = ug/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BLK	LCS			LCSD	
		Value	Result	TRUE	%Rec	Result	%Rec
Benzene	8021	ND	20.3	20	102	19.8	99
Toluene	8021	ND	20.1	20	101	19.9	100
Ethylbenzene	8021	ND	20.1	20	101	19.5	98
Xylenes	8021	ND	58.2	60	97	58.2	97

LCS = Lab Control Sample Result
 TRUE = True Value of LCS
 L.LIMIT / H.LIMIT = LCS Control Limits

L.Limit	H.Limit
80%	120%

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-156
Method Blank	106
LCS	110
LCSD	99

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LCS/LCSD
 Matrix: WATER
 Prep. Date: 01/23/03
 Analysis Date: 01/23/03
 ID#'s in Batch: LR 105323, 105322
 Reporting Units = ug/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

		PREP BLK						
		Value	Result	True	%Rec	L.Limit	H.Limit	
Test	Method	LCS	ND	522	500	104	80%	120%
TPH	8015M-G	LCSD	ND	522	500	104	80%	120%

LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-156
Method Blank	106
LCS	103
LCSD	167 *

* Outside QC Limits

Cooler Receipt Form

Client: Thriftly oil Project: _____
Date Cooler Received: 1/20/03 Date Cooler Opened: 1/20/03

Was cooler scanned for presence of radioactivity? Yes/No
a: Was radioactivity results above 25cpm? Yes/No

If cooler had custody seal(s), were they signed and intact? NA/Yes/No

Was a shipper's packing slip attached to the cooler? Yes No

Cooler was packed with: Ice Ice Packs _____ Bubble Wrap _____ Styrofoam _____
Paper _____ None _____ Other _____

Temperature of cooler: 0.2

*Cooler needs to be received @ 4°C with an acceptable range of 2°-6°C

Were all samples sealed in plastic bags? Yes/No

Did all samples arrive intact? If no, see below Yes/No

Were all samples labeled correctly? (ID, Dates, Times) If no, see below Yes/No

Can the tests required be run with provided containers? If no, see below Yes/No

Was sufficient volume of sample sent in all containers? Yes/No

Were any VOA vials received with headspace? NA/Yes/No

Were correct preservatives used? NA/Yes/No

*If no, see pH Log for a list of samples and container pH.

Any other important information: _____

Signed: Jean Lewis Date: 1/20/03

Chain of Custody Record

49
63

ASSOCIATED LABORATORIES

806 North Batavia • Orange, CA 92868
Phone: (714) 771-6900 • Fax: (714) 538-1209



Company THRIFTY OIL CO							Phone (562) 921-3581		A.L. Job No. 105322		Page _____ of _____			
Project Manager JEFF JURYARUSUMA							Fax (562) 921-7510		Analysis Requested				Test Instructions & Comments	
Project Name Q.U.S -							Project # T0600101366							
Site Name and Address 6125 TELEGRAPH AVE. OAKLAND, CA. 94609							TOC		T	B	M			
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	H	E	B					
1	MW 6	01.15.03	13:30	H ₂ O	3 VOA	HCL	X	X	X					
2	MW 5	↑	13:40	↑	↑	↑	X	X	X					
3	MW 1	↑	13:50	↑	↓	↓	X	X	X					
4	MW 4	↓	14:00	↓	↓	↓	X	X	X					
5	TRIP BLANK	↓	13:30	↓	2 VOA	HCL	X	X						
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														

Sample Receipt - To Be Filled By Laboratory				Relinquished by Sampler: 1.		Relinquished by GOLDEN STATE 2.		Relinquished by 3.	
Total Number of Containers		Property Cooled Y / N / NA		Signature: <i>[Signature]</i>		Signature:		Signature:	
Custody Seals Y / N / NA		Samples Intact Y / N / NA		Printed Name: BERNARD W		Printed Name:		Printed Name:	
Received in Good Condition Y / N		Samples Accepted Y / N		Date: 01 15 03 Time: 17:30		Date: Time:		Date: Time:	
Turn Around Time				Received By: GOLDEN STATE 1.		Received By: 2.		Received By: 3.	
<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Same Day <input type="checkbox"/> 48 hrs. <input type="checkbox"/> 24 hrs. <input type="checkbox"/> 72 hrs.				Signature:		Signature: <i>[Signature]</i>		Signature:	
				Printed Name:		Printed Name: Ryan Lewis		Printed Name:	
				Date: 1/15/03 Time: 17:30		Date: 1/20/03 Time: 10:00		Date: Time:	

APPENDIX C



063

DATE: 03.17.03

START-UP/SHUT DOWN REPORT

STATION NO.: 063

SYSTEM TYPE: CARBON

START-UP REPORT:

SHUT DOWN REPORT:

System shut down. Operator in vacation
from 03.24. to 03.28.03 -

SIGNATURE: *[Handwritten Signature]*



THRIFTY OIL CO. SERVICE STATION #063

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 03.10.03

OBSERVATIONS AND COMMENTS: ADD OIL, CHECK BELT, HOSES, CLEAN WATER FILTER, REPLACE CARTRIDGE WATER FILTER, DRAIN COMPRESSOR TANK,

FLOW METER READING: - 1238640 -

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.0

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.8

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.6

INSPECTOR'S SIGNATURE: S. Popescu

063

THRIFTY OIL CO. SERVICE STATION #063

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERRAPOPETA

DATE OF INSPECTION: 03.03.03

OBSERVATIONS AND COMMENTS: CHANGE OIL, CHECK BELT, HOSES,

CLEAN WATER FILTER BAG, CHANGE CARTRIDGE WATER FILTER, DRINK COMPRESSOR TANK,

FLOW METER READING: 1230060

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.1

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.8

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.6

INSPECTOR'S SIGNATURE: S. Popeta

THRIFTY OIL CO. SERVICE STATION #063

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBIA PAPERU

DATE OF INSPECTION: 02.24.03

OBSERVATIONS AND COMMENTS: ADD OIL, CHECK BELT, HOSES, CLEAN

WATER FILTER BAG, REPLACE CARTRIDGE WATER

FILTER, DRAIN COMPRESSOR TANK,

FLOW METER READING: -1223450

SAMPLES OBTAINED: N/A

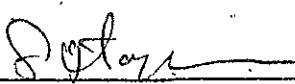
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.0

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.9

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.6

INSPECTOR'S SIGNATURE: 

THRIFTY OIL CO. SERVICE STATION #063
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 02.17.03

OBSERVATIONS AND COMMENTS: CHANGE OIL, CHECK BELT, HOSES, DRINK COMPRESSOR TANK

FLOW METER READING: 1218630

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: M

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.0

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.9

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.6

INSPECTOR'S SIGNATURE: [Signature]

063

THRIFTY OIL CO. SERVICE STATION #063
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SEBASTIAN POPESCU

DATE OF INSPECTION: 02.10.03

OBSERVATIONS AND COMMENTS: CHECK OIL, BELT, INSPECT ALL HOSES AND CONNECTIONS FOR LEAKS AND DAMAGE, CLEAN WATER FILTER BAG, REPLACE CARTRIDGE WATER FILTER, REPLACE ELEMENTS IN THREE STAGE FILTER REGULATOR

FLOW METER READING: -1213420-

SAMPLES OBTAINED: 1/1

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.1

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.9

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.6

INSPECTOR'S SIGNATURE: Sebastian Popescu

THRIFTY OIL CO. SERVICE STATION #063
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBUT POPESCU

DATE OF INSPECTION: 02.03.03

OBSERVATIONS AND COMMENTS: CHECK OIL, BELT, CLEAN WATER FILTER BAG, DRAIN COMPRESSOR TANK, CHECK HOSES, AND DRUMS FOR LEAKS IN THE SYSTEM, CHECK THE THREE STAGE FILTER, REGULATOR

FLOW METER READING: 1206740

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.1

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.8

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.6

INSPECTOR'S SIGNATURE: [Signature]

THRIFTY OIL CO. SERVICE STATION 063
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBANOPEJU

DATE OF INSPECTION: 01.27.03

OBSERVATIONS AND COMMENTS: CHANGE OIL, DRAIN COMPRESSOR TANK,
CLEAN WATER FILTER BAG, REPLACE CARTRIDGE
WATER FILTER,

FLOW METER READING: -1203420-

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.1

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.9

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.6

INSPECTOR'S SIGNATURE: S. Stojan

THRIFTY OIL CO. SERVICE STATION #063

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 01.20.03

OBSERVATIONS AND COMMENTS: ADD OIL, CLEAN WATER FILTER BAG,
DRAIN COMPRESSOR TANK, REPLACE CARTRIDGE
WATER FILTER, CHECK BELT, HOSES,

FLOW METER READING: - 1192610 -

SAMPLES OBTAINED: N/A

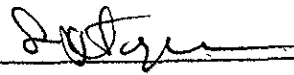
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.1

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.9

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.6

INSPECTOR'S SIGNATURE: 

063

DATE: 01.15.03

START-UP/SHUT DOWN REPORT

STATION NO.: 063

SYSTEM TYPE: CARBON

START-UP REPORT:

AFTER R.W.S. RESTART SYSTEM

SHUT DOWN REPORT:

SIGNATURE: *[Signature]*

063

THRIFTY OIL CO. SERVICE STATION #063

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBIA POPESCU

DATE OF INSPECTION: 01.13.03

OBSERVATIONS AND
COMMENTS: ADD OIL, CLEARED WATER FILTER BAG,
DRAIN COMPRESSOR TANK,
SHUT DOWN FOR G.W.S -

FLOW METER READING: - 1189320 -

SAMPLES OBTAINED: 1/1

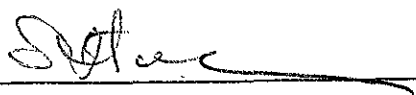
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: _____

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: _____

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: _____

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: _____

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: _____

INSPECTOR'S SIGNATURE: 

063

DATE: 01.13.03

START-UP/SHUT DOWN REPORT

STATION NO.: 063

SYSTEM TYPE: CARBON

START-UP REPORT:

Blank lined area for start-up report details.

SHUT DOWN REPORT:

SHUT DOWN FOR R.W.S
FLOW # 1189320

SIGNATURE: [Handwritten Signature]

063

THRIFTY OIL CO. SERVICE STATION #063

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBON POPEAU

DATE OF INSPECTION: 01.06.03

OBSERVATIONS AND COMMENTS: ADD OIL, CHECK BELT, HOSES, DRAIN COMPRESSOR TANK, CLEAN WATER FILTER BAG, CHECK THREE STAGE FILTER AND CLEAN THE FILTER BOWLS

FLOW METER READING: -1182610-

SAMPLES OBTAINED: yes

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.1

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.9

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.6

INSPECTOR'S SIGNATURE: S. Popeau

THRIFTY OIL CO. SERVICE STATION #063

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBATAPORESU

DATE OF INSPECTION: 12.30.02

OBSERVATIONS AND COMMENTS: ADD OIL, CHECK BELT, HOSES,
DRUMS CONNECTIONS, DRAIN COMPRESSOR TANK,
CLEAN WATER FILTER BAG, REPLACE CARTRIDGE
WATER FILTER,

FLOW METER READING: - 1173420 -

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

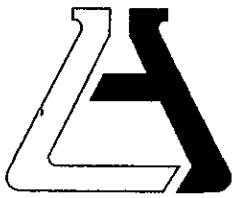
PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.0

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.8

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.6

INSPECTOR'S SIGNATURE: Serbaty

APPENDIX D



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Thrifty Oil Co. (8871)
ATTN: Jeff Suryakusuma
13116 Imperial Hwy.
P.O. Box 2128
Santa Fe Springs, CA 90670

LAB REQUEST 104818

REPORTED 01/21/2003

RECEIVED 01/08/2003

PROJECT Station #063

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.

404539
404540
404541
404542
404543
404544

Client Sample Identification

TOC #063, Outlet
TOC #063, Int 1
TOC #063, Int 2
TOC #063, Int 3
TOC #063, Inlet
Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 404539

Client Sample ID: TOC #063, Outlet

Matrix: WATER

Date Sampled: 01/06/2003 Time Sampled: 10:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.14	ug/L	01/14/03 LZ
Ethyl benzene	ND	1	0.3	0.08	ug/L	01/14/03 LZ
Methyl t - butyl ether	ND	1	5	2.0	ug/L	01/14/03 LZ
Toluene	1.2	1	0.3	0.07	ug/L	01/14/03 LZ
Xylene (total)	2.4	1	0.6	0.35	ug/L	01/14/03 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	01/14/03 LZ
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	106				%	55 - 156

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
 ND = Not detected below indicated MDL, J=Trace



Order #: 404540

Client Sample ID: TOC #063, Int 1

Matrix: WATER

Date Sampled: 01/06/2003 Time Sampled: 10:10

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.14	ug/L	01/14/03 LZ
Ethyl benzene	ND	1	0.3	0.08	ug/L	01/14/03 LZ
Methyl t - butyl ether	6.4	1	5	2.0	ug/L	01/14/03 LZ
Toluene	ND	1	0.3	0.07	ug/L	01/14/03 LZ
Xylene (total)	ND	1	0.6	0.35	ug/L	01/14/03 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	01/14/03 LZ
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	106				%	55 - 156

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace



Order #: 404541

Client Sample ID: TOC #063, Int 2

Matrix: WATER

Date Sampled: 01/06/2003 Time Sampled: 10:20

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.14	ug/L	01/14/03 LZ
Ethyl benzene	ND	1	0.3	0.08	ug/L	01/14/03 LZ
Methyl t - butyl ether	1020	50	250.0	2.0	ug/L	01/14/03 LZ
Toluene	ND	1	0.3	0.07	ug/L	01/14/03 LZ
Xylene (total)	ND	1	0.6	0.35	ug/L	01/14/03 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	2630	50	2500	50	ug/L	01/14/03 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	106			%	55 - 156

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace



Order #: 404542

Client Sample ID: TOC #063, Int 3

Matrix: WATER

Date Sampled: 01/06/2003 Time Sampled: 10:30

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8021B BTEX + MTBE

Benzene	ND	1	0.3	0.14	ug/L	01/14/03 LZ
Ethyl benzene	ND	1	0.3	0.08	ug/L	01/14/03 LZ
Methyl t - butyl ether	ND	1	5	2.0	ug/L	01/14/03 LZ
Toluene	ND	1	0.3	0.07	ug/L	01/14/03 LZ
Xylene (total)	ND	1	0.6	0.35	ug/L	01/14/03 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	01/14/03 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	107			%	55 - 156

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
ND = Not detected below indicated MDL, J=Trace



Order #: 404543

Client Sample ID: TOC #063, Inlet

Matrix: WATER

Date Sampled: 01/06/2003 Time Sampled: 10:40

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX + MTBE

Benzene	ND	10	3.0	0.14	ug/L	01/14/03 LZ
Ethyl benzene	14	10	3.0	0.08	ug/L	01/14/03 LZ
Methyl t - butyl ether	205	10	50.0	2.0	ug/L	01/14/03 LZ
Toluene	29	10	3.0	0.07	ug/L	01/14/03 LZ
Xylene (total)	2420	50	30.0	0.35	ug/L	01/14/03 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	9860	10	500	50	ug/L	01/14/03 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	120			%	55 - 156

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
 ND = Not detected below indicated MDL, J=Trace



Order #: 404544

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
---------	--------	----	-----	-----	-------	--------------

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.14 ug/L	01/14/03 LZ
Ethyl benzene	ND	1	0.3	0.08 ug/L	01/14/03 LZ
Methyl t - butyl ether	ND	1	5	2.0 ug/L	01/14/03 LZ
Toluene	ND	1	0.3	0.07 ug/L	01/14/03 LZ
Xylene (total)	ND	1	0.6	0.35 ug/L	01/14/03 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	01/14/03 LZ
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	105			%	55 - 156

PQL = Practical Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor
 ND = Not detected below indicated MDL, J=Trace



ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LCS/LCSD
 Matrix: WATER
 Prep. Date: 01/14/03
 Analysis Date: 01/14/03
 ID#'s in Batch: LR 104818, 104825, 104935, 104951, 104845

Reporting Units = ug/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

		PREP BLK						
		Value	Result	True	%Rec	L.Limit	H.Limit	
Test	Method	LCS	ND	505	500	101	80%	120%
TPH	8015M-G	LCSD	ND	525	500	105	80%	120%

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-156
Method Blank	105
LCS	182 *
LCSD	198 *

* Outside QC Limits

ASSOCIATED LABORATORIES

LCS REPORT FORM

QC Sample: LCS / LCSD
 Matrix: WATER
 Prep. Date: 01/14/03
 Analysis Date: 01/14/03
 LAB ID#'s in Batch: LR 104818, 104825, 104935, 104951, 104845

REPORTING UNITS = ug/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BLK	LCS			LCSD	
		Value	Result	TRUE	%Rec	Result	%Rec
Benzene	8021	ND	16.8	20	84	16.7	84
Toluene	8021	ND	17.3	20	87	17.0	85
Ethylbenzene	8021	ND	18.0	20	90	17.6	88
Xylenes	8021	ND	52.4	60	87	50.2	84

LCS = Lab Control Sample Result

TRUE = True Value of LCS

L.LIMIT / H.LIMIT = LCS Control Limits

L.Limit	H.Limit
80%	120%

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-156
Method Blank	105
LCS	99
LCSD	115

AAA-TFT = a,a,a-Trifluorotoluene

Chain of Custody Record



Company THRIFTY OIL CO		Phone 562/921-3581		A.L. Job No. 10488		Page _____ of _____			
Project Manager JEFF SURYAROSUMA		Fax 562/921-7510		Analysis Requested				Test Instructions & Comments	
Project Name System water sampling		Project # 063							
Site Name and Address				T P H		B I E X		M T B E	
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.			
1 OUTLET 03PM		01.06.03	10:00	H₂O	3VOA	HCL	X	X	X
2 IHT. 1		↑	10:10	↑	↑	↑	X	X	X
3 IHT. 2		↑	10:20	↑	↑	↑	X	X	X
4 IHT. 3		↓	10:30	↓	↓	↓	X	X	X
5 INLET		↓	10:40	↓	↓	↓	X	X	X
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

Sample Receipt - To Be Filled By Laboratory				Relinquished by Sampler: JERRY ^{1.}	Relinquished by GOLDEN ROD ^{2.}	Relinquished by ^{3.}
Total Number of Containers	Property Cooled Y/N/NA			Signature: <i>[Signature]</i>	Signature:	Signature:
Custody Seals Y/N/NA	Samples Intact Y/N/NA			Printed Name: SARAH PODES	Printed Name:	Printed Name:
Received in Good Condition Y/N	Samples Accepted Y/N			Date: 01.07.03 Time: 17:30	Date: Time:	Date: Time:
Turn Around Time				Received By: GOLDEN ROD ^{2.}	Received By: ^{2.}	Received By: ^{3.}
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature: <i>[Signature]</i>	Signature:	Signature:
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name: John Lewis	Printed Name:	Printed Name:
				Date: 1/8/03 Time: 3:25	Date: Time:	Date: Time:

WIP