

THRIFTY OIL CO.

September 16, 2003

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

Alameda County
SEP 16 2003
Environmental Health

O.38608
Local #3871
RWQCB #01-1479
Global ID #T0600101366
Confirmation #1307404756

RE: **Former Thrifty Oil Co. Station #063**
ARCO Products Company Station 39542
6125 Telegraph Avenue
Oakland, CA 94609
3rd Quarter 2003, Status Report

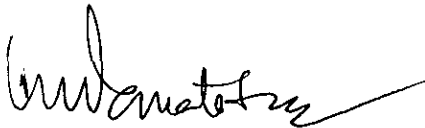
Dear Ms. Hugo:

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

As previously requested, 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



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RE: **Former Thrifty Oil Co. Station #063**
ARCO Products Company Station #9542
6125 Telegraph Avenue
Oakland, CA
3rd Quarter 2003, Status Report

Dear Ms. Hugo:

Presented herein is the 3rd 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 third 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.

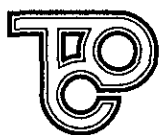
Groundwater Monitoring

Depth to groundwater is measured in each monitoring well on a quarterly basis. In general, groundwater occurred beneath the station at depths ranging from 14.58 feet below ground surface (bgs) in monitoring well MW-6 to 16.86 feet bgs in monitoring well MW-4 on April 16, 2003. A groundwater elevation contour map based on the April 16, 2003 data is presented in **Figure 2**. A depression in the groundwater table is present in the area of recovery well MW-3 with the groundwater flow direction to the east-southeast at an approximate gradient of 0.8 feet/foot and to the west-southwest at an approximate gradient of 0.095 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 July 14, 2003. Groundwater from recovery well MW-3 was also sampled on July 14, 2003, because the system was shut down. Groundwater samples were obtained by EMC and delivered in a chilled state following strict Chain-of-Custody procedure to a state-certified laboratory. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M, and for benzene, toluene, ethylbenzene, xylenes (BTEX) methyl tert-butyl ether (MTBE) and other oxygenates by EPA Method 8260B. Laboratory analytical sampling results are provided in **Table 1** and **Table 2** (other oxygenates). Copies of the EMC Field Status Reports for groundwater sampling are presented in **Appendix A**, and copies of the laboratory analytical reports are contained in **Appendix B**.

The groundwater samples were also analyzed for ethanol and methanol by EPA Method 8260B. Ethanol and methanol were not detected above the method detection limit of 20 milligrams per liter.



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 13,300 ug/L, 145 ug/L, and 17,600 ug/L, respectively. The isoconcentration maps incorporated data from the treatment system influent well (MW-3).

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 3** and **Appendix C**. During this reporting period from June 23, 2003, through September 3, 2003, the groundwater treatment system processed approximately 59,520 gallons of groundwater and has treated approximately 2,265,109 gallons of groundwater since start-up (April 1991) through September 3, 2003. The system was shut down for quarterly groundwater sampling from July 7 through July 15, 2003, and again from August 15 through August 29, 2003, because of carbon change out. The system operated throughout the remainder of the quarter.

Inlet, intermediate 3, intermediate 2, intermediate 1, and outlet water samples were collected on July 21, 2003. The system water samples collected by EMC were sent to a state certified laboratory for analysis. The samples were analyzed for TPHg by EPA Method 8015M and for BTEX and MTBE by EPA Method 8021B. All outlet sample constituents were below the laboratory detection limit, except for toluene (1.0 ug/L). Inlet water sample results indicate maximum concentrations of 7,710 ug/L TPH-g and 3,350 ug/L MTBE. Benzene concentrations were not detected above 0.04 ug/L. Copies of the laboratory analytical reports are included in **Appendix D**.

Other Activities

With the high concentrations of dissolved phase petroleum hydrocarbons in well MW-4, Thrifty has previously proposed to connect well MW-4 to the existing remediation system to enhance the reduction of the dissolved-phase petroleum hydrocarbons in the groundwater (originally requested in the 2nd Quarter, Status Report dated July 16, 2002). Once approval is received from the Alameda County Health Care Services, 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 4th Quarter 2003 monitoring report.

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

Sincerely,



Michael H. Bowery, R.G.
Project Manager

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)	MTBE (ug/L)					
MONITORING WELL #MW-1 <i>Screen Interval = 15 to 30 feet</i>											
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
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

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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)					
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
04/16/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	15.16	NP	0.00	99.34	84 18
07/14/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	13.64	NP	0.00	99.34	85.70
MONITORING WELL #MW-2 <i>Screen Interval = 15 to 30 feet</i>											
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
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											

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)					
MONITORING WELL #MW-3											
<i>Screen Interval = 15 to 30 feet</i>						<i>(GROUNDWATER SYSTEM'S PUMPING WELL)</i>					
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
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

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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)					
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
04/16/03	-	-	-	-	-	-	-	-	-	99.76	-
07/14/03	2,490	<0.22	<0.32	<0.31	1.3 J	2,050	18.30	NP	0.00	99.76	81.46
MONITORING WELL #MW-4 <i>Screen Interval - 9 to 29 feet</i>											
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	-	-	-	-	-
07/07/97	12,000	<0.3	<0.3	<0.3	<0.5	-	18.80	NP	0.00	99.48	80.68
10/16/97	770	<0.3	<0.3	<0.3	<0.5	-	17.76	NP	0.00	99.48	81.72
01/07/98	75,000	3,000	900	1,400	2,500	110	11.60	NP	0.00	99.48	87.88
04/08/98	18,000	1,200	130	710	1,400	22,000	10.10	NP	0.00	99.48	89.38
07/14/98	21,000	1,300	58	1,200	1,100	23,000	16.30	NP	0.00	99.48	83.18
10/15/98	9,100	1.1	0.62	<0.3	<0.5	30,000	16.90	NP	0.00	99.48	82.58

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)					
01/20/99	16,000	<0.3	0.91	0.72	1.4	* 43,000 / 42,000	15.35	NP	0.00	100.48	85.13
04/16/99	17,000	0.48	0.92	0.54	1.4	* 28,000 / 26,000	15.30	NP	0.00	100.48	85.18
07/14/99	8,500	<6	<6	<6	<10	*21,000 / 16,000	18.40	NP	0.00	100.48	82.08
10/07/99	2,500	<1.5	3.1	<1.5	<2.5	4,800	16.89	NP	0.00	100.48	83.59
01/26/00	9,900	350	9	460	460	2,800	12.62	NP	0.00	100.48	87.86
04/19/00	8,990	0.7	<0.25	<0.25	<0.5	*3,240 / 5,450	12.28	NP	0.00	100.48	88.20
05/26/00	94	<0.3	<0.3	<0.3	<0.6	*746 / 419	13.81	NP	0.00	100.48	86.67
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	3,110 / 2,060	12.29	NP	0.00	100.48	88.19
10/25/00	2,480	<0.18	<0.14	<0.18	<0.26	*3,690 / 3,040	12.26	NP	0.00	100.48	88.22
01/10/01	<50	<0.18	2	<0.18	1	962	10.75	NP	0.00	100.48	89.73
04/23/01	482	<0.18	<0.14	<0.18	<0.26	*875 / 453	12.26	NP	0.00	100.48	88.22
07/16/01	71,700	9,440	12,600	514	8,980	*1,330 / 389	13.80	NP	0.00	100.48	86.68
10/17/01	13,500	1,950	425	<5.94	1,110	*829 / 329	16.87	NP	0.00	100.48	83.61
01/23/02	12,100	196	57	68	2,090	*688/738	12.28	NP	0.00	100.48	88.20
04/10/02	655	7	8	1	1	587	13.80	NP	0.00	100.48	86.68
07/24/02	17,400	<0.18	1.9	1.4	2.2	12,800	15.33	NP	0.00	100.48	85.15
10/30/02	17,300	400	47	748	131	12,300	17.00	NP	0.00	100.48	83.48
01/15/03	23,000	568	39	832	268	18,300	16.84	NP	0.00	100.48	83.64
04/16/03	15,800	411	15	26	14	18,200	16.86	NP	0.00	100.48	83.62
07/14/03	13,300	145	26	2.8 J	12	17,600	10.69	NP	0.00	100.48	89.79
MONITORING WELL #MW-5 <i>Screen Interval = 7 to 27 feet</i>											
11/21/86	<1,000	4.8	2.1	<0.5	7.4	-	16.10	NP	0.00	100.98	84.88
07/22/91	-	<0.5	1.6	<1.0	2.0	-	18.20	NP	0.00	100.98	82.78
10/24/91	-	-	-	-	-	-	17.67	NP	0.00	100.98	83.31
01/22/92	600	21.0	8.0	2.0	17.0	-	-	-	-	-	-
03/24/92	-	-	-	-	-	-	12.98	NP	0.00	100.98	88.00
07/15/92	<200	<0.5	<0.5	<0.5	<0.5	-	17.29	NP	0.00	100.98	83.69
10/05/92	-	-	-	-	-	-	18.92	NP	0.00	100.98	82.06
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

**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)					
07/15/95	100	12	<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
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
04/16/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	15.55	NP	0.00	101.98	86.43
07/14/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	15.93	NP	0.00	101.98	86.05

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)					
MONITORING WELL #MW-6 <i>Screen Interval = 7 to 27 feet</i>											
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
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

**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)					
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
04/16/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	14.58	NP	0.00	100.44	85.86
07/14/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	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
 Beginning 7/2003, BTEX and MTBE analyzed by 8260B

**TABLE 2
OXYGENATE DATA IN GROUNDWATER
THRIFTY OIL STATION # 063, OAKLAND, CA.**

DATE SAMPLED	OXYGENATES			
	Di-Isopropyl Ether (DIPE) (ug/L)	Ethyl-Tert-Butyl Ether (ETBE) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	Tert-Butyl Alcohol (TBA) (ug/L)
MONITORING WELL # MW-1				
10/16/97	<20	<20	<20	3,900
01/07/98	<20	<20	92	<500
04/03/98	<20	<20	65	<500
07/14/03	<0.29	<0.17	<0.28	<10
MONITORING WELL # MW-2				
10/16/97	<20	<20	<20	<500
MONITORING WELL # MW-3 (GROUNDWATER SYSTEM'S PUMPING WELL)				
10/16/97	-	-	-	-
01/07/98	-	-	-	-
04/03/98	-	-	-	-
07/14/03	<0.29	<0.17	24	608
MONITORING WELL # MW-4				
10/16/97	<20	<20	<20	14,000
01/07/98	<20	<20	230	<500
04/03/98	<200	<200	<200	<5,000
07/14/03	<0.29	<0.17	62	2,490
MONITORING WELL # MW-5				
10/16/97	<20	<20	<20	4,700
01/07/98	<20	<20	<20	<500
04/03/98	<20	<20	<20	<500
07/14/03	<0.29	<0.17	<0.28	<10
MONITORING WELL # MW-6				
10/16/97	<20	<20	<20	<500
01/07/98	<20	<20	40	<500
04/03/98	-	-	-	-
07/14/03	<0.29	<0.17	<0.28	<10

NOTE: DIPE, ETBE, TAME, TBA analyzed by EPA Method 8260/8260B

TABLE 3
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	1.9	-
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	1.2	-
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	1.9	-
9/9/91	70,564	68,895	4	-	<0.5	<0.5	<1	<1	-	-	270	10	13	6.9	-
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	2.3	-
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	1.4	-
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	1.4	-
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	860	-	<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	9.8	-
5/11/92	187,170	185,501	864	<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	6.4	-
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 3
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	-
10/08/93	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	357,993	-	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	2.7	3.9	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	3.7	<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	8.7	3.4	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	682,556	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	-	736,247	-	System shut down due to the UST replacement and station remodeling											
02/17/98	-	736,247	-	<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	-	736,247	-	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	62,366	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	-	746,199	-	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	-	761,219	-	System was undergoing maintenance for the compressor											
01/20/99	-	761,219	-	<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											

TABLE 3
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
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	1,028	<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	1,680,489	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	-	1,775,029	-	-	<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	-	1,847,489	-	<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	-	1,914,949	-	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	-	-	-	-	-	-	-	-	-	-	-	-
03/17/03	1,257,710	2,103,609	2,724	System off											
03/28/03	1,257,710	2,103,609	-	Restart											
03/31/03	1,266,150	2,112,049	2,813	-	-	-	-	-	-	-	-	-	-	-	-
04/02/03	1,272,100	2,117,999	2,975	-	-	-	-	-	-	-	-	-	-	-	-
04/07/03	1,286,160	2,132,059	2,812	<15	<0.04	2.2	<0.02	<0.06	<0.03	14,000	20	20	2.2	14	9,090

TABLE 3
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
04/14/03	1,294,060	2,139,959	1,129	System shut down for QWS											
04/16/03	1,294,080	2,139,979	10	Restart											
04/21/03	1,299,660	2,145,559	1,116	-	-	-	-	-	-	-	-	-	-	-	-
04/28/03	1,302,140	2,148,039	354	-	-	-	-	-	-	-	-	-	-	-	-
05/05/03	1,302,710	2,148,609	81	System shut down for carbon change											
05/07/03	1,302,710	2,148,609	-	Restart											
05/12/03	1,303,230	2,149,129	104	-	-	-	-	-	-	-	-	-	-	-	-
05/19/03	1,318,460	2,164,359	2,176	-	-	-	-	-	-	-	-	-	-	-	-
05/30/03	1,321,830	2,167,729	306	-	-	-	-	-	-	-	-	-	-	-	-
06/02/03	1,327,490	2,173,389	1,887	-	-	-	-	-	-	-	-	-	-	-	-
06/09/03	1,336,370	2,182,269	1,269	-	-	-	-	-	-	-	-	-	-	-	-
06/16/03	1,347,480	2,193,379	1,587	-	-	-	-	-	-	-	-	-	-	-	-
06/23/03	1,359,690	2,205,589	1,744	-	-	-	-	-	-	-	-	-	-	-	-
07/01/03	1,366,090	2,211,989	800	-	-	-	-	-	-	-	-	-	-	-	-
07/07/03	1,369,730	2,215,629	607	System shut down for QWS											
07/15/03	1,369,730	2,215,629	-	Restart											
07/21/03	1,382,630	2,228,529	2,150	<15	<0.04	1.0	<0.02	<0.06	<0.03	7,710	<0.04	<0.02	<0.02	<0.06	3,550
07/28/03	1,389,840	2,235,739	1,030	-	-	-	-	-	-	-	-	-	-	-	-
08/04/03	1,408,710	2,254,609	2,696	-	-	-	-	-	-	-	-	-	-	-	-
08/15/03	1,411,520	2,257,419	255	System shut down for carbon change											
08/29/03	1,411,560	2,257,459	3	Restart											
09/03/03	1,419,210	2,265,109	1,530	-	-	-	-	-	-	-	-	-	-	-	-

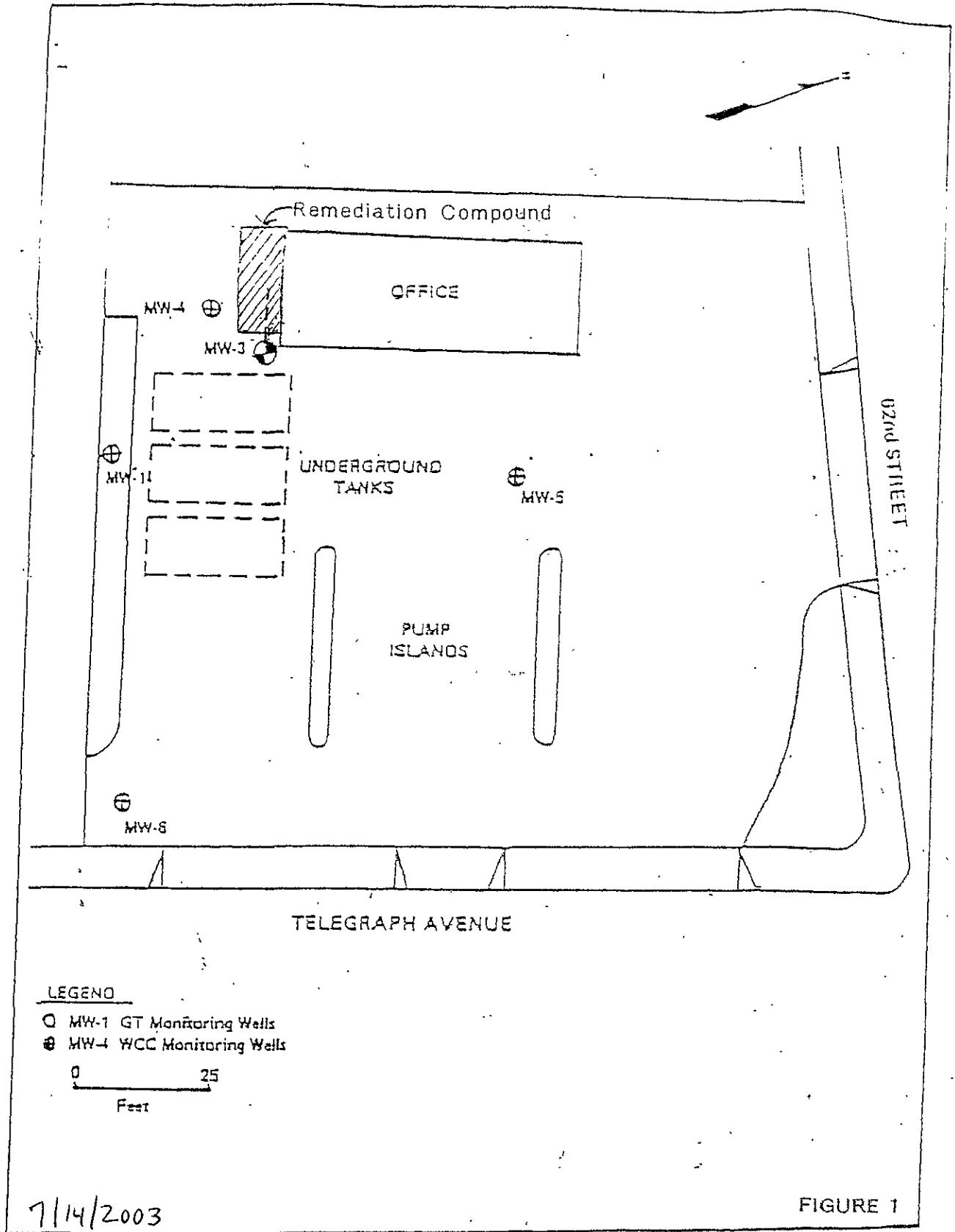
WD PERMIT LIMITS:	NE	5.0	5.0	5.0	5.0	NE
--------------------------	----	-----	-----	-----	-----	----

Note: < = less than laboratory detection level indicated
 - = no sample / not analyzed
 NE = Permit Limit not established

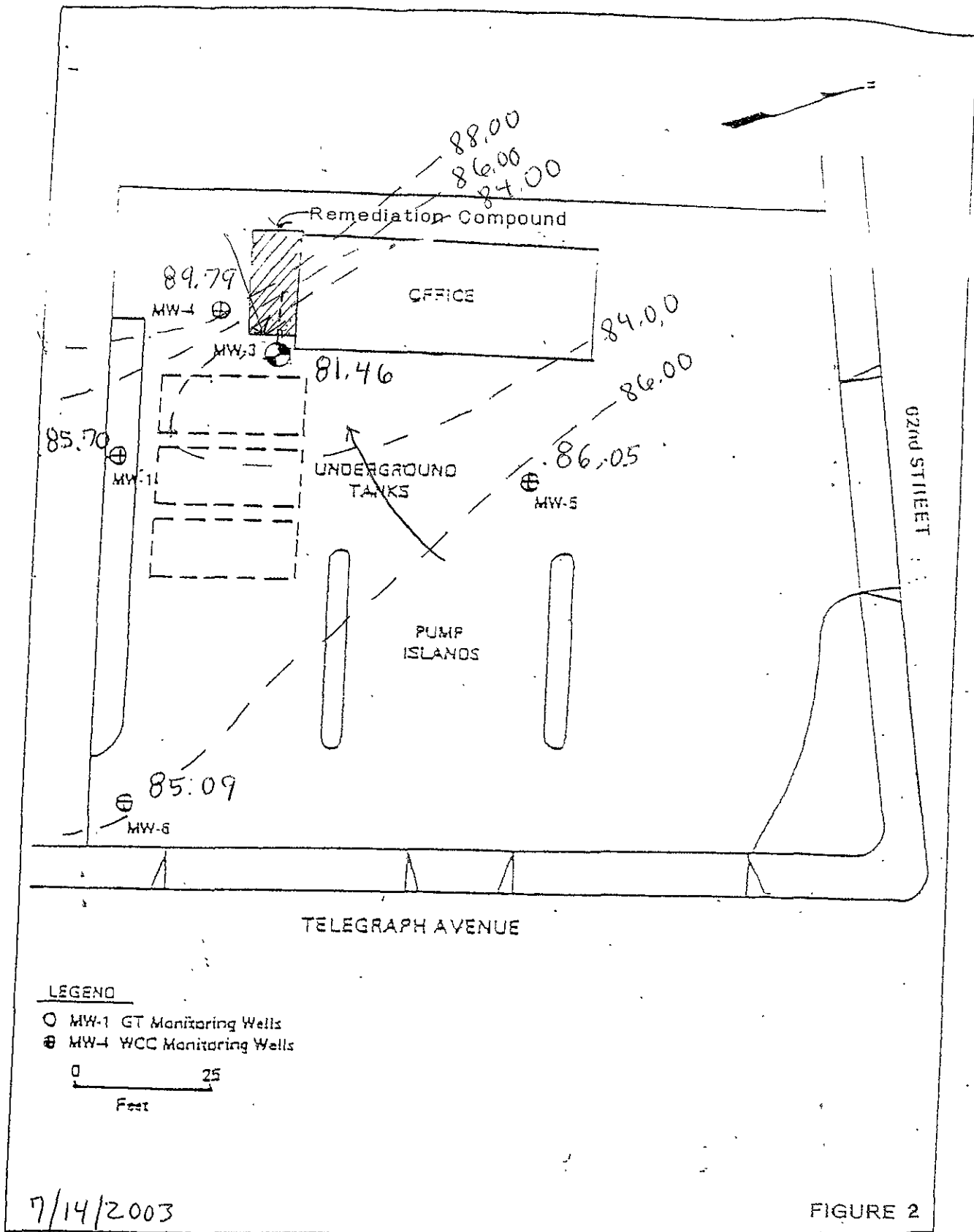
TPH is analyzed by EPA Method 8015 M
 BTEX is analyzed by EPA Method 602 or 8020
 *MTBE 8020/B260

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.

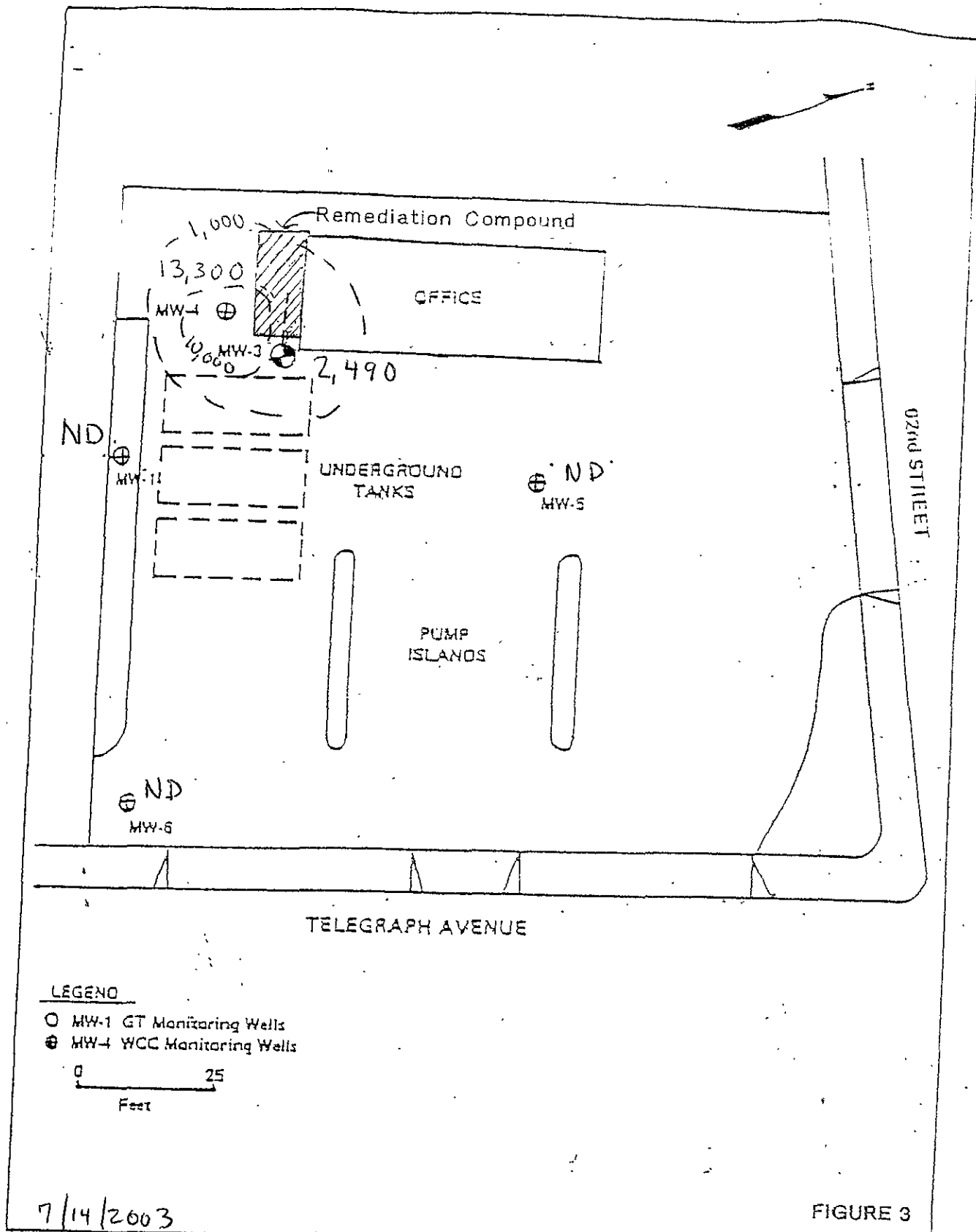
FIGURES



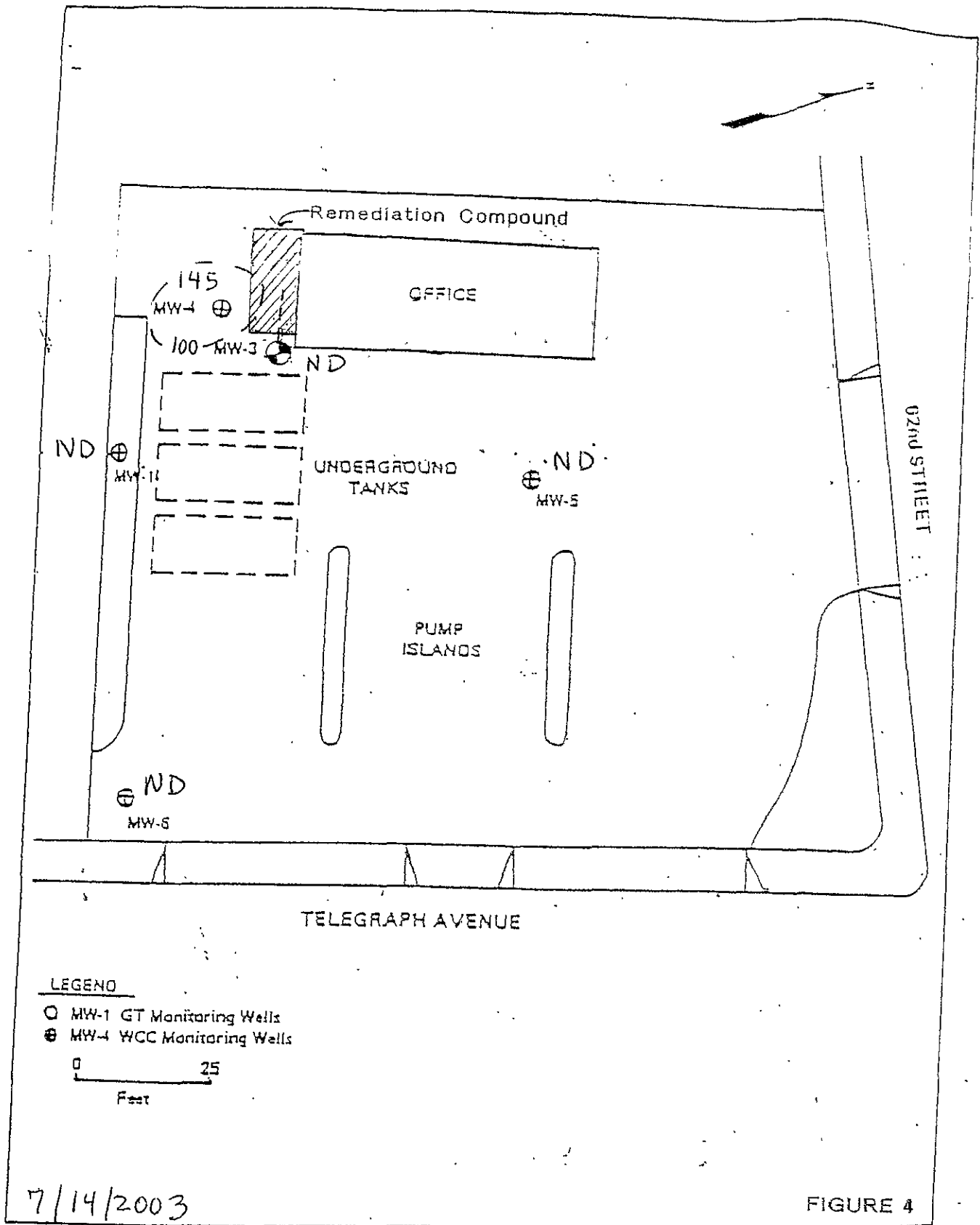
SITE PLAN AND RECOVERY SYSTEM
 THRIFTY SERVICE STATION NO. 63
 6125 TELEGRAPH AVE.
 OAKLAND, CA



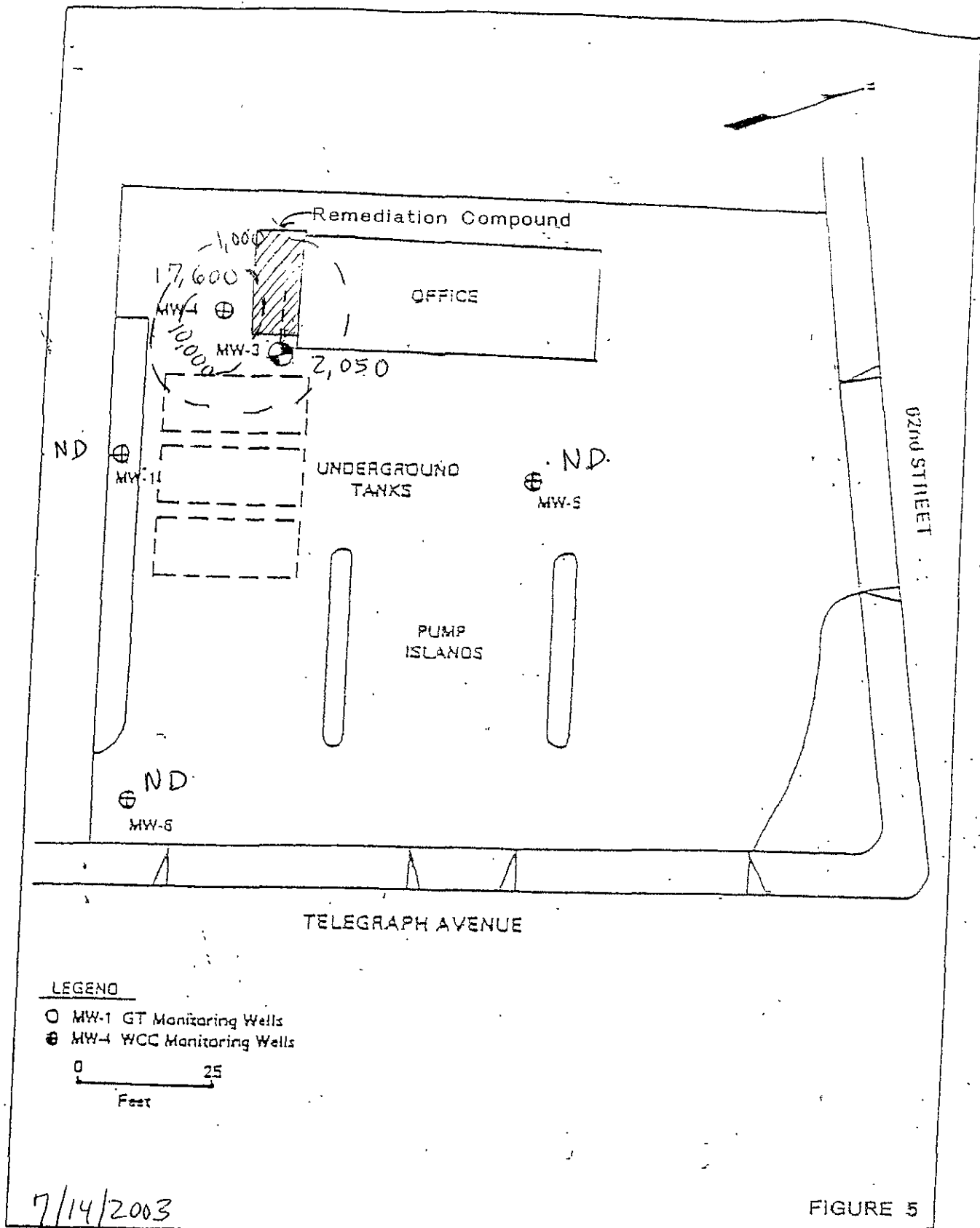
Groundwater Contour Map
 THRIFTY SERVICE STATION NO. 63
 6125 TELEGRAPH AVE.
 OAKLAND, CA



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

APPENDIX A

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	063	Date:	07.14.03
Address:			
Personnel:	SERBAN	Weather:	SUNNY DAY
Well No:	MW-1	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	28.96	Well Diameter	24
Depth to Water (ft)	13.64	Est. Purge Volume:	10

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	10:11	10:12	10:14	10:16	10:17	10:18	10:20
EC	1480	1800	1510	1490	1480	1460	1460
pH	6.07	6.15	6.20	6.21	6.20	6.21	6.20
Temp	21.6	21.4	21.3	21.1	21.3	21.1	21.1
Gal.	1	2	4	5	7	8	10
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	16.70
Total Well Depth (ft.)	28.96

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	063	Date:	07.14.03
Address:			
Personnel:	SERBATE	Weather:	SUNNY DAY
Well No:	PLW-3	Equip:	BUTLER

Before Purging:			
Total Well Depth: (ft.)	28.23	Well Diameter	64
Depth to Water (ft)	18.30	Est. Purge Volume:	50

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	11:47	11:54	12:01	12:08	12:15	12:22	12:30
EC	1740	1740	1710	1690	1670	1680	1680
pH	6.38	6.42	6.39	6.38	6.36	6.37	6.38
Temp	21.3	21.6	21.7	21.6	21.7	21.6	21.4
Gal.	7	14	21	28	35	42	50
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	19.70
Total Well Depth(ft.)	28.23

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>063</u>	Date: <u>02-14-03</u>
Address: _____	
Personnel: <u>SFRBM</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>MW-4</u>	Equip: <u>BURGER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>29.09</u>	Well Diameter	<u>24</u>
Depth to Water (ft)	<u>10.69</u>	Est. Purge Volume:	<u>12</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>11:00</u>	<u>11:01</u>	<u>11:03</u>	<u>11:04</u>	<u>11:06</u>	<u>11:08</u>	<u>11:10</u>
EC	<u>1470</u>	<u>1460</u>	<u>1440</u>	<u>1460</u>	<u>1470</u>	<u>1460</u>	<u>1470</u>
pH	<u>6.15</u>	<u>6.20</u>	<u>6.19</u>	<u>6.21</u>	<u>6.20</u>	<u>6.21</u>	<u>6.20</u>
Temp	<u>21.3</u>	<u>21.1</u>	<u>20.9</u>	<u>20.8</u>	<u>20.7</u>	<u>20.6</u>	<u>20.4</u>
Gal.	<u>1</u>	<u>3</u>	<u>5</u>	<u>6</u>	<u>8</u>	<u>10</u>	<u>12</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	<u>15.04</u>
Total Well Depth(ft.)	<u>29.09</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>063</u>	Date: <u>07.14.03</u>
Address: _____	
Personnel: <u>SERBAN</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>MW-5</u>	Equip: <u>BAILER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>26.26</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>15.93</u>	Est. Purge Volume:	<u>27</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>1700</u>	<u>1720</u>	<u>1710</u>	<u>1700</u>	<u>1690</u>	<u>1680</u>	<u>1690</u>
pH	<u>6.37</u>	<u>6.41</u>	<u>6.40</u>	<u>6.34</u>	<u>6.40</u>	<u>6.38</u>	<u>6.40</u>
Temp	<u>21.9</u>	<u>21.7</u>	<u>21.5</u>	<u>21.3</u>	<u>21.3</u>	<u>21.1</u>	<u>21.3</u>
Gal.	<u>3</u>	<u>7</u>	<u>11</u>	<u>15</u>	<u>19</u>	<u>23</u>	<u>27</u>
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	<u>16.03</u>	Total Well Depth(ft.)	<u>26.26.</u>

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>063</u>	Date: <u>07.14.03</u>
Address: _____	
Personnel: <u>SERBAN,</u>	Weather: <u>SMITHY DAY</u>
Well No: <u>MW-6</u>	Equip: <u>BITUMER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>26.83</u>	Well Diameter	<u>4"</u>
Depth to Water (ft)	<u>15.35</u>	Est. Purge Volume:	<u>30</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>9:04</u>	<u>9:08</u>	<u>9:12</u>	<u>9:17</u>	<u>9:21</u>	<u>9:25</u>	<u>9:30</u>
EC	<u>1670</u>	<u>1660</u>	<u>1630</u>	<u>1540</u>	<u>1620</u>	<u>1660</u>	<u>1630</u>
pH	<u>6.25</u>	<u>6.24</u>	<u>6.32</u>	<u>6.30</u>	<u>6.31</u>	<u>6.32</u>	<u>6.30</u>
Temp	<u>72.3</u>	<u>71.1</u>	<u>70.9</u>	<u>70.8</u>	<u>70.6</u>	<u>70.5</u>	<u>70.5</u>
Gal.	<u>4</u>	<u>8</u>	<u>12</u>	<u>17</u>	<u>21</u>	<u>25</u>	<u>30</u>
Time							
EC							
pH							
Temp							
Gal.							

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

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 113857
REPORTED 07/31/2003
RECEIVED 07/16/2003

PROJECT TOC #063
6125 Telegraph Ave., Oakland CA 94609

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>
446740	TOC #063, MW-6
446741	TOC #063, MW-5
446742	TOC #063, MW-1
446743	TOC #063, MW-4
446744	TOC #063, MW-3
446745	TOC #063, Trip Blank
446746	Laboratory Method Blank

I 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 #: 446740

Client Sample ID: TOC #063, MW-6

Matrix: WATER

Date Sampled: 07/14/2003 Time Sampled: 14:30

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8260B BTEX/MTBE Only						
Benzene	ND	1	1	0.22 ug/L		07/26/03 LB
Ethyl benzene	ND	1	5	0.31 ug/L		07/26/03 LB
Ethyl-tertbutylether (ETBE)	ND	1	1	0.17 ug/L		07/26/03 LB
Isopropyl ether (DIPE)	ND	1	1	0.29 ug/L		07/26/03 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.18 ug/L		07/26/03 LB
Tert-amylmethylether (TAME)	ND	1	1	0.28 ug/L		07/26/03 LB
Tertiary butyl alcohol (TBA)	ND	1	10	10 ug/L		07/26/03 LB
Toluene	ND	1	5	0.32 ug/L		07/26/03 LB
Xylenes, total	ND	1	5	0.4 ug/L		07/26/03 LB
Surrogates						
					Units	Control Limits
Surr1 - Dibromofluoromethane	118				%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	113				%	70 - 130
Surr3 - Toluene-d8	97				%	70 - 130
Surr4 - p-Bromofluorobenzene	115				%	70 - 130
D285 Ethanol / Methanol by GC-FID						
Ethanol	ND	1	50	20 mg/L		07/23/03 QN
Methanol	ND	1	50	20 mg/L		07/23/03 QN
8015M - Gasoline						
Gasoline	ND	1	100	15 ug/L		07/23/03 LZ
Surrogates						
					Units	Control Limits
a,a,a-Trifluorotoluene	99				%	55 - 200

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



Order #: 446741

Client Sample ID: TOC #063, MW-5

Matrix: WATER

Date Sampled: 07/14/2003 Time Sampled: 14:40

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8260B BTEX/MTBE Only						
Benzene	ND	1	1	0.22	ug/L	07/27/03 LB
Ethyl benzene	ND	1	5	0.31	ug/L	07/27/03 LB
Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	07/27/03 LB
Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	07/27/03 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.18	ug/L	07/27/03 LB
Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	07/27/03 LB
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	07/27/03 LB
Toluene	ND	1	5	0.32	ug/L	07/27/03 LB
Xylenes, total	ND	1	5	0.4	ug/L	07/27/03 LB
Surrogates				Units	Control Limits	
Surr1 - Dibromofluoromethane	128			%	70 - 130	
Surr2 - 1,2-Dichloroethane-d4	117			%	70 - 130	
Surr3 - Toluene-d8	97			%	70 - 130	
Surr4 - p-Bromofluorobenzene	114			%	70 - 130	
D285 Ethanol / Methanol by GC-FID						
Ethanol	ND	1	50	20	mg/L	07/23/03 QN
Methanol	ND	1	50	20	mg/L	07/23/03 QN
8015M - Gasoline						
Gasoline	ND	1	100	15	ug/L	07/23/03 LZ
Surrogates				Units	Control Limits	
a,a,a-Trifluorotoluene	99			%	55 - 200	

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



Order #: 446742

Client Sample ID: TOC #063, MW-1

Matrix: WATER

Date Sampled: 07/14/2003 Time Sampled: 14:50

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8260B BTEX/MTBE Only						
Benzene	ND	1	1	0.22	ug/L	07/27/03 LB
Ethyl benzene	ND	1	5	0.31	ug/L	07/27/03 LB
Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	07/27/03 LB
Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	07/27/03 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.18	ug/L	07/27/03 LB
Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	07/27/03 LB
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	07/27/03 LB
Toluene	ND	1	5	0.32	ug/L	07/27/03 LB
Xylenes, total	ND	1	5	0.4	ug/L	07/27/03 LB
Surrogates						
Surr1 - Dibromofluoromethane	114				%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	112				%	70 - 130
Surr3 - Toluene-d8	97				%	70 - 130
Surr4 - p-Bromofluorobenzene	118				%	70 - 130
D285 Ethanol / Methanol by GC-FID						
Ethanol	ND	1	50	20	mg/L	07/23/03 QN
Methanol	ND	1	50	20	mg/L	07/23/03 QN
8015M - Gasoline						
Gasoline	ND	1	100	15	ug/L	07/23/03 LZ
Surrogates						
a,a,a-Trifluorotoluene	98				%	55 - 200

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



Order #: 446743

Client Sample ID: TOC #063, MW-4

Matrix: WATER

Date Sampled: 07/14/2003 Time Sampled: 15:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B BTEX/MTBE Only

Benzene	145	1	1	0.22	ug/L	07/27/03 LB
Ethyl benzene	2.8 J	1	5	0.31	ug/L	07/27/03 LB
Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	07/27/03 LB
Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	07/27/03 LB
Methyl-tert-butylether (MTBE)	17600	50	50.0	0.18	ug/L	07/28/03 LB
Tert-amylmethylether (TAME)	62	1	1	0.28	ug/L	07/27/03 LB
Tertiary butyl alcohol (TBA)	2490	10	100.0	10	ug/L	07/27/03 LB
Toluene	26	1	5	0.32	ug/L	07/27/03 LB
Xylenes, total	12	1	5	0.4	ug/L	07/27/03 LB

Surrogates

				Units	Control Limits
Surr1 - Dibromofluoromethane	100			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	110			%	70 - 130
Surr3 - Toluene-d8	101			%	70 - 130
Surr4 - p-Bromofluorobenzene	114			%	70 - 130

D285 Ethanol / Methanol by GC-FID

Ethanol	ND	1	50	20	mg/L	07/23/03 QN
Methanol	ND	1	50	20	mg/L	07/23/03 QN

8015M - Gasoline

Gasoline	13300	20	1000.0	15	ug/L	07/23/03 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	95			%	55 - 200

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



Order #: 446744

Client Sample ID: TOC #063, MW-3

Matrix: WATER

Date Sampled: 07/14/2003 Time Sampled: 15:10

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B BTEX/MTBE Only

Benzene	ND	1	1	0.22	ug/L	07/29/03 LB
Ethyl benzene	ND	1	5	0.31	ug/L	07/29/03 LB
Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	07/29/03 LB
Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	07/29/03 LB
Methyl-tert-butylether (MTBE)	2050	50	50.0	0.18	ug/L	07/27/03 LB
Tert-amylmethylether (TAME)	24	1	1	0.28	ug/L	07/29/03 LB
Tertiary butyl alcohol (TBA)	608	1	10	10	ug/L	07/29/03 LB
Toluene	ND	1	5	0.32	ug/L	07/29/03 LB
Xylenes, total	1.3 J	1	5	0.4	ug/L	07/29/03 LB

Surrogates

				Units	Control Limits
Surr1 - Dibromofluoromethane	119			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	107			%	70 - 130
Surr3 - Toluene-d8	97			%	70 - 130
Surr4 - p-Bromofluorobenzene	117			%	70 - 130

D285 Ethanol / Methanol by GC-FID

Ethanol	ND	1	50	20	mg/L	07/23/03 QN
Methanol	ND	1	50	20	mg/L	07/23/03 QN

8015M - Gasoline

Gasoline	2490	10	500.0	15	ug/L	07/23/03 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	97			%	55 - 200

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



Order #: 446745**Client Sample ID:** TOC #063, Trip Blank**Matrix:** WATER**Date Sampled:** 07/14/2003 **Time Sampled:** 14:30

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B BTEX/MTBE Only

Benzene	ND	1	1	0.22 ug/L		07/27/03 LB
Ethyl benzene	ND	1	5	0.31 ug/L		07/27/03 LB
Toluene	ND	1	5	0.32 ug/L		07/27/03 LB
Xylenes, total	ND	1	5	0.4 ug/L		07/27/03 LB

D285 Ethanol / Methanol by GC-FID

Ethanol	ND	1	50	20 mg/L		07/23/03 QN
Methanol	ND	1	50	20 mg/L		07/23/03 QN

8015M - Gasoline

Gasoline	ND	1	100	15 ug/L		07/23/03 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	100			%	55 - 200

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



Order #: 446746

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
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8260B BTEX/MTBE Only

Benzene	ND	1	1	0.22 ug/L	07/26/03 LB
Ethyl benzene	ND	1	5	0.31 ug/L	07/26/03 LB
Ethyl-tertbutylether (ETBE)	ND	1	1	0.17 ug/L	07/26/03 LB
Isopropyl ether (DIPE)	ND	1	1	0.29 ug/L	07/26/03 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.18 ug/L	07/26/03 LB
Tert-amylmethylether (TAME)	ND	1	1	0.28 ug/L	07/26/03 LB
Tertiary butyl alcohol (TBA)	ND	1	10	10 ug/L	07/26/03 LB
Toluene	ND	1	5	0.32 ug/L	07/26/03 LB
Xylenes, total	ND	1	5	0.4 ug/L	07/26/03 LB

Surrogates

				Units	Control Limits
Surr1 - Dibromofluoromethane	119			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	103			%	70 - 130
Surr3 - Toluene-d8	95			%	70 - 130
Surr4 - p-Bromofluorobenzene	110			%	70 - 130

D285 Ethanol / Methanol by GC-FID

Ethanol	ND	1	50	20 mg/L	07/23/03 QN
Methanol	ND	1	50	20 mg/L	07/23/03 QN

8015M - Gasoline

Gasoline	ND	1	100	15 ug/L	07/23/03 LZ
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	94			%	55 - 200

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



ASSOCIATED LABORATORIES
LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 07/28/03

Applies to: LR 113857

Reporting Units = ug/L

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	51.38	53.81	103	108	5	22	59-172
MTBE	ND	50	53.04	51.31	106	103	3	24	62-137
Benzene	ND	50	45.58	45.96	91	92	1	24	62-137
Trichloroethene	ND	50	41.51	41.62	83	83	0	21	66-142
Toluene	ND	50	47.63	47.51	95	95	0	21	59-139
Chlorobenzene	ND	50	46.84	47.68	94	95	2	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-130)

Compounds	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	104	97	102	102
LCSD	105	101	102	107
BLANK # 1	99	110	103	110

ASSOCIATED LABORATORIES
LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 07/26/03

Applies to: LR 113857

Reporting Units = ug/L

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	59.99	61.18	120	122	2	22	59-172
MTBE	ND	50	38.32	40.35	77	81	5	24	62-137
Benzene	ND	50	53.82	51.97	108	104	3	24	62-137
Trichloroethene	ND	50	62.27	62.85	125	126	1	21	66-142
Toluene	ND	50	52.18	53.24	104	106	2	21	59-139
Chlorobenzene	ND	50	52.78	53.47	106	107	1	21	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-130)

Compounds	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	117	103	98	109
LCSD	115	111	97	114
BLANK # 3	119	103	95	110

**ASSOCIATED LABORATORIES
LCS REPORT FORM**

QC Sample: LCS / LCSD
 Matrix: WATER
 Prep. Date: 07/23/03
 Analysis Date: 07/23/03
 ID#'s in Batch: LR 113857

LAB CONTROL SPIKE / LAB CONTROL SPIKE DUPLICATE RESULT

Reporting Units = mg/L

Test	Method	Blank Result	Spike Added	LCS Spike	LCSD Spike Dup	%Rec LCS	%Rec LCSD	% RPD
Methanol	D285	ND	100	98.3	102.7	98	103	4
Ethanol	D285	ND	100	101.1	93.4	101	93	8

RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate
%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate

% REC LIMITS = 70 - 130
RPD LIMITS = 25

Method Blank - All ND

**ASSOCIATED LABORATORIES
QA REPORT FORM**

QC Sample: LCS / LCSD
 Matrix: WATER
 Prep. Date: 07/23/03
 Analysis Date: 07/23/03-07/24/03
 ID#'s in Batch: LR 113984, 113857, 113922, 113857

Reporting Units = mg/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

			PREP BLK					
			Value	Result	True	%Rec	L.Limit	H.Limit
Test	Method	LCS	ND	499	500	100	80%	120%
TPH	8015M-G	LCSD	ND	511	500	102	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	55-200
Method Blank	94
LCS	143
LCSD	143

AAA-TFT = a,a,a-Trifluorotoluene



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868-1225 - 714/771-6900 FAX 714/538-1209

Cooler Receipt Form

Client: Thrifty oil Project: _____

Date Cooler Received: 7/16/93 Date Cooler Opened: 7/16/93

Was cooler scanned for presence of radioactivity?
If yes was radioactivity results above 25 cpm?

Yes/No
Yes/No

Was a shipper's packing slip attached to the cooler?

Yes/No

If the cooler had custody seal(s), were they signed and intact?

Yes/No/Na

Was the cooler packed with: Ice K Ice Packs _____ Bubble wrap _____
Styrofoam _____ Paper _____ None _____ Other _____

Cooler Temperature: 3.0° *

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

If samples were hand delivered do they meet the temp. criteria, which should be @ 4°C with an acceptable range of 2° - 6 °C?

Yes/No

If no explain: _____

Were all samples sealed in plastic bags?

Yes/No

Did all samples arrive intact? If no, indicate below.

Yes/No

Were all samples labeled correctly? (ID's Dates, Times) If no, indicate below.

Yes/No

Can the tests required be ran with the provided containers, If no indicate below.

Yes/No

Was sufficient sample volume sent for all containers?

Yes/No

Were any VOA vials received with head space?

Yes/No/Na

Was the correct preservatives used?

If no, see the pH log for a list of samples containers regarding pH

Yes/No/Na

Any other important information: _____

Receiving Department: _____ Date: _____



Chain of Custody Record

Company TRIFITY OIL CO.	Phone (562) 921-3581	A.L. Job No. 113357	Page _____ of _____
Project Manager JEFF SURYAKUSUMA	Fax (562) 921-7510	Analysis Requested	
Project Name Q. W. S.	Project # 063	Test Instructions & Comments	
Site Name and Address 6125 TELEGRAPH AVE. OAKLAND, CA. 94609	<p style="text-align: center; font-size: 2em;">TO600101366</p>		

Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH (8015M)	BTEX (8020)	OXYGENATES								
1 MW-6		07.14.03	14:30	H ₂ O	3VDA	HCL	X	X	X								
2 MW-5			14:40				X	X	X								
3 MW-1			14:50				X	X	X								
4 MW-4			15:00				X	X	X								
5 MW-3			15:10				X	X	X								
6 TRIP BLANK			14:30		2VDA		X	X									
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

ANALYSIS PERFORMED FOR OXYGENATE COMPOUNDS USED IN CA. GASOLINE, EPA METHOD 8260
 1. METHANOL
 2. ETHANOL
 3. TERTIARY BUTANOL
 4. MTBE
 5. DIPPE
 6. ETBE
 7. TAME

Sample Receipt - To Be Filled By Laboratory				Relinquished by Sampler: SERRAN	Relinquished by: GOLDEN STATE	Relinquished by: _____
Total Number of Containers	Property Cooled Y/N/NA	Samples Intact Y/N/NA	Samples Accepted Y/N	Signature: <i>[Signature]</i>	Signature: _____	Signature: _____
Custody Seals Y/N/NA				Printed Name: SERRAN DPAS	Printed Name: _____	Printed Name: _____
Received in Good Condition Y/N				Date: 07.14.03 Time: 17:30	Date: _____ Time: _____	Date: _____ Time: _____
Turn Around Time				Received By: GOLDEN STATE	Received By: _____	Received By: _____
<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Same Day <input type="checkbox"/> 24 hrs. <input type="checkbox"/> 48 hrs. <input type="checkbox"/> 72 hrs.				Signature: _____	Signature: <i>[Signature]</i>	Signature: _____
				Printed Name: _____	Printed Name: Golden State	Printed Name: _____
				Date: _____ Time: _____	Date: 7/16/03 Time: 11:15	Date: _____ Time: _____

APPENDIX C

063

THRIFTY OIL CO. SERVICE STATION #63
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SR RBA POPELICH

DATE OF INSPECTION: 09.03.03

OBSERVATIONS AND COMMENTS: CHECK BELT, HOSES CONNECTIONS,

DRUMS FOR LEAKIN, REPLACE CARTRIDGE FOR
WATER FILTER, CLEAN WATER FILTER BAG,

FLOW METER READING: - 241.9210 -

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: 1.2

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 #63
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBA POPE & CO

DATE OF INSPECTION: 08-29-03

OBSERVATIONS AND COMMENTS: RESTART SYSTEM AFTER

REPLACE WITH NEW CARBON -

FLOW METER READING: -141.560-

SAMPLES OBTAINED: H1A

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: 1.1

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]



EARTH MANAGEMENT CO.

Environmental Remediation

SYSTEM STARTUP / SHUTDOWN REPORT

SITE:

#063

ADDR:

6125 TELEGRAPH AVE.
OAKLAND, 94609

DATE:

08-29-03

PERSON:

JERBAN,

Remediation System Type:

- AS
 SVE
 DPE
 GWT
 FPR
 Other:

System Type		Action		Hour Meter (hrs)	Totalizer (gal)	Purpose / Comments
		Startup	Shutdown			
AS	Air Sparging					
SVE	Soil Vapor Extraction					
DPE	Dual-Phase Extraction					
GWT	Groundwater Treatment	X			-1421560-	RESTART AFTER CHANGE CARBON-
FPR	FP Recovery					
O	Other:					

UTILITIES:

Electrical Meter: _____

Nat. gas Meter: _____

Propane Tank Level: _____

OTHER NOTES:

ALWAYS OBSERVE SAFETY PROCEDURES!

063

DATE: 08-15-03

START-UP/SHUT DOWN REPORT

STATION NO.: 063

SYSTEM TYPE: GWT

START-UP REPORT:

SHUT DOWN REPORT:

Shut down for carbon change

TOTALIZER = -1411520 -

SIGNATURE: *P. DeL...*

063

THRIFTY OIL CO. SERVICE STATION #63
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAPOPAW

DATE OF INSPECTION: 08-04-03

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

FLOW METER READING: -1508710-

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: [Signature]

063

THRIFTY OIL CO. SERVICE STATION #63
6125 TELEGRAPH AVENUE, OAKLAND, CALIFORNIA
GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAY POPKOW

DATE OF INSPECTION: 07.28.03

OBSERVATIONS AND COMMENTS: CHECK BELT, HOSES, CLEAN WATER

FILTER BAG, REPLACE CARTRIDGE WATER FILTER

DRAIN COMPRESSOR TANK,

FLOW METER READING: 1389840

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: 0.8

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

INSPECTOR'S SIGNATURE: S. Serbay

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 114028

REPORTED 07/31/2003

RECEIVED 07/22/2003

PROJECT TOC #063
6125 Telegraph Ave., Oakland

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.

<u>Order No.</u>	<u>Client Sample Identification</u>
447646	TOC #063, Outlet PSP #1
447647	TOC #063, Int-1
447648	TOC #063, Int-2
447649	TOC #063, Int-3
447650	TOC #063, Inlet
447651	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. Behave, 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 #: 447646

Client Sample ID TOC #063, Outlet PSP #1

Matrix: WATER

Date Sampled: 07/21/2003 Time Sampled: 10:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.04	ug/L	07/24/03 LZ
Ethyl benzene	ND	1	0.3	0.02	ug/L	07/24/03 LZ
Methyl t - butyl ether	ND	1	5	0.03	ug/L	07/24/03 LZ
Toluene	1.0	1	0.3	0.02	ug/L	07/24/03 LZ
Xylene (total)	ND	1	0.6	0.06	ug/L	07/24/03 LZ
8015M - Gasoline						
Gasoline	ND	1	100	15	ug/L	07/24/03 LZ
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	93				%	55 - 200

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



Order #: 447647

Client Sample ID: TOC #063, Int-1

Matrix: WATER

Date Sampled: 07/21/2003 Time Sampled: 10:10

Arialyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.04	ug/L	07/24/03 LZ
Ethyl benzene	ND	1	0.3	0.02	ug/L	07/24/03 LZ
Methyl t - butyl ether	89	2	10.0	0.03	ug/L	07/24/03 LZ
Toluene	1.0	1	0.3	0.02	ug/L	07/24/03 LZ
Xylene (total)	ND	1	0.6	0.06	ug/L	07/24/03 LZ
8015M - Gasoline						
Gasoline	112	1	100	15	ug/L	07/24/03 LZ
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	96				%	55 - 200

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



Order #: 447648

Client Sample ID: TOC #063, Int-2

Matrix: WATER

Date Sampled: 07/21/2003 Time Sampled: 10:20

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.04	ug/L	07/24/03 LZ
Ethyl benzene	ND	1	0.3	0.02	ug/L	07/24/03 LZ
Methyl t - butyl ether	563	20	100.0	0.03	ug/L	07/24/03 LZ
Toluene	0.91	1	0.3	0.02	ug/L	07/24/03 LZ
Xylene (total)	ND	1	0.6	0.06	ug/L	07/24/03 LZ
8015M - Gasoline						
Gasoline	1450	20	1000.0	15	ug/L	07/24/03 LZ
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	103				%	55 - 200

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



Order #: 447649

Client Sample ID: TOC #063, Int-3

Matrix: WATER

Date Sampled: 07/21/2003 Time Sampled: 10:30

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.04	ug/L	07/24/03 LZ
Ethyl benzene	ND	1	0.3	0.02	ug/L	07/24/03 LZ
Methyl t - butyl ether	1070	50	250.0	0.03	ug/L	07/24/03 LZ
Toluene	ND	1	0.3	0.02	ug/L	07/24/03 LZ
Xylene (total)	ND	1	0.6	0.06	ug/L	07/24/03 LZ
8015M - Gasoline						
Gasoline	3360	50	2500.0	15	ug/L	07/24/03 LZ
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	103				%	55 - 200

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



Order #: 447650
Matrix: WATER

Client Sample ID. TOC #063, Inlet
Date Sampled: 07/21/2003 Time Sampled: 10:40

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.04	ug/L	07/24/03 LZ
Ethyl benzene	ND	1	0.3	0.02	ug/L	07/24/03 LZ
Methyl t - butyl ether	3550	100	500.0	0.03	ug/L	07/24/03 LZ
Toluene	ND	1	0.3	0.02	ug/L	07/24/03 LZ
Xylene (total)	ND	1	0.6	0.06	ug/L	07/24/03 LZ
8015M - Gasoline						
Gasoline	7710	100	5000.0	15	ug/L	07/24/03 LZ
Surrogates						
a,a,a-Trifluorotoluene	103				%	55 - 200

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



Order #: 447651

Client Sample ID. Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.04	ug/L	07/24/03 LZ
Ethyl benzene	ND	1	0.3	0.02	ug/L	07/24/03 LZ
Methyl t - butyl ether	ND	1	5	0.03	ug/L	07/24/03 LZ
Toluene	ND	1	0.3	0.02	ug/L	07/24/03 LZ
Xylene (total)	ND	1	0.6	0.06	ug/L	07/24/03 LZ
8015M - Gasoline						
Gasoline	ND	1	100	15	ug/L	07/24/03 LZ
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	93				%	55 - 200

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: 07/24/03
 Analysis Date: 7/24/03-7/25/03
 ID#'s in Batch: LR 113999, 113939, 114028, 114002
 Reporting Units = mg/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

		PREP BLK						
		Value	Result	True	%Rec	L.Limit	H.Limit	
Test	Method	LCS	ND	487	500	97	80%	120%
TPH	8015M-G	LCSD	ND	550	500	110	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	55-200
Method Blank	93
LCS	148
LCSD	152

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES
LCS REPORT FORM

QC Sample: LCS / LCSD
 Matrix: WATER
 Prep. Date: 07/24/03
 Analysis Date: 7/24/03-7/25/03
 LAB ID#'s in Batch: LR 113999, 113939, 114028, 114002

REPORTING UNITS = mg/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BLK	LCS			LCSD	
		Value	Result	TRUE	%Rec	Result	%Rec
Benzene	8021	ND	20.6	20	103	18.9	95
Toluene	8021	ND	21.0	20	105	19.2	96
Ethylbenzene	8021	ND	21.7	20	109	19.6	98
Xylenes	8021	ND	64.8	60	108	59.9	100

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	55-200
Method Blank	93
LCS	109
LCSD	98

AAA-TFT = a,a,a-Trifluorotoluene



Chain of Custody Record

Company: THRIFTY OIL CO.		Phone: (562) 921-3581		A.L. Job No. 114028		Page _____ of _____				
Project Manager: JEFF PURYAKUSUMA		Fax: (562) 921-7510		Analysis Requested				Test Instructions & Comments		
Project Name: MONTHLY SYSTEM SAMPLING		Project #: 063								
Site Name and Address: 6125 TELEGRAPH AVE. OAKLAND, CA 94604										
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH	BTEX	MTBE	
1		07-21-03	10:00	H ₂ O	3VDA	HCL	X	X	X	GRAB SAMPLE
2		↕	10:10	↕	↕	↕	X	X	X	
3			10:20				X	X	X	
4			10:30				X	X	X	
5			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: SERBENT 1.		Relinquished by GOLDEN STATE 2.		Relinquished by 3.	
Total Number of Containers		Property Cooled Y / N / NA		Signature: <i>[Signature]</i>		Signature: OVERNIGHT		Signature:	
Custody Seals Y / N / NA		Samples Intact Y / N / NA		Printed Name: SERBENT, JEFF		Printed Name:		Printed Name:	
Received in Good Condition Y / N		Samples Accepted Y / N		Date: 07/21/03 Time: 17:30		Date: _____ Time: _____		Date: _____ Time: _____	
Turn Around Time				Received By: GOLDEN STATE		Received By: 2.		Received By: 3.	
<input checked="" type="checkbox"/> Normal		<input type="checkbox"/> Rush		Signature: OVERNIGHT		Signature: <i>[Signature]</i>		Signature:	
<input type="checkbox"/> Same Day		<input type="checkbox"/> 48 hrs.		Printed Name: _____		Printed Name: FRANK		Printed Name:	
<input type="checkbox"/> 24 hrs.		<input type="checkbox"/> 72 hrs.		Date: _____ Time: _____		Date: 7/22/03 Time: 10:45		Date: 7-22-03 Time: 11:30	