

# THRIFTY OIL CO.

205

January 10, 2004

O.53181

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  
Global ID #T0600101366  
Confirmation #9222900748

RE: **Former Thrifty Oil Co. Station #063**  
**ARCO Products Company Station #9542**  
6125 Telegraph Avenue  
Oakland, CA  
***4th Quarter 2004, Status Report***

MAILED  
JAN 11 2004

Dear Ms. Hugo:

Presented herein is the Fourth Quarter 2004, 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 fourth quarter of 2004. 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 13.53 feet below top of casing (btc) in monitoring well MW-6 to 16.17 feet btc in monitoring well MW-5 on October 14, 2004. A groundwater elevation contour map based on the October 14, 2004, data is presented in **Figure 2**. The groundwater flow direction is to the southwest at an approximate gradient of 0.0364 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 October 14, 2004. Groundwater from recovery well MW-3 was also sampled on October 14, 2004, 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) and methyl tert-butyl ether (MTBE) 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**.



TPHg, benzene, and MTBE isoconcentration maps results are presented in **Figures 3, 4, and 5**, respectively. Laboratory results indicate the highest concentrations of TPHg and MTBE were in monitoring well MW-4, with concentrations of 10,200 micrograms per liter (ug/L) and 3,940 ug/L, respectively. The highest benzene concentration (256 ug/L) was detected in well MW-1. 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 September 29, 2004 through December 15, 2004, the groundwater treatment system processed approximately 17,000 gallons of groundwater and has treated approximately 2,641,359 gallons of groundwater since start-up (April 1991). The system was shut down for quarterly groundwater sampling from October 12 through October 21, 2004 and was shut down by mistake on November 3, 2004. The system operated throughout the remainder of the quarter.

Inlet, intermediate 3, intermediate 2, intermediate 1, and outlet water samples were collected on October 6, 2004. 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 method detection limit (MDL). Inlet water sample results were below the MDLs with the exception of MTBE at 20 ug/L. Copies of the laboratory analytical reports are included in **Appendix D**.

### **Other Activities**

In the 2nd Quarter 2004 Status Report, Thrifty indicated that because more than 60 days had elapsed since the initial request to the ACHCA to connect well MW-4 to the existing remediation system, Thrifty was going to proceed with connecting well MW-4 to the system. Thrifty has retained Advanced GeoEnvironmental, Inc. to connect well MW-4 to the system and will notify the ACHCA when field work is scheduled. The work is scheduled to be completed in the 1st quarter 2005.

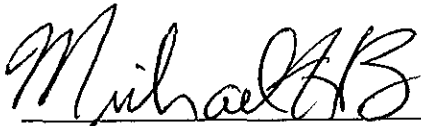
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**Closing Comments**

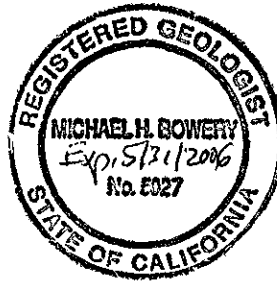
The groundwater monitoring wells and the treatment unit will be monitored and sampled during the next quarter. All site monitoring/sampling data generated during the next quarter will be reported in the 1st Quarter 2005 monitoring report.

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



Chris Panaitescu  
General Manager  
Environmental Affairs

cc: BP West Coast Products LLP; Ms. Kateri Luka

File

# ***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)					
<b>MONITORING WELL #MW-1</b> Screen Interval = 15 to 30 feet											
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 / 380	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
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

**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)					
01/23/02	<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
10/08/03	761	11	<0.32	1.4 J	2.9 J	653	15.50	NP	0.00	99.34	83.84
01/15/04	853	<0.04	<0.02	<0.02	<0.06	*1,100 / 558	14.20	NP	0.00	99.34	85.14
04/14/04	494	<2.2	<3.2	<3.1	<4.0	843	12.93	NP	0.00	99.34	86.41
07/29/04	1,040	<2.2	<3.2	<3.1	<4.0	1,070	14.73	NP	0.00	99.34	84.61
10/14/04	3,250	266	<0.32	59	78	811	15.26	NP	0.00	99.34	84.08
<b>MONITORING WELL #MW-2</b> <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)	MIBE (ug/L)					
<b>MONITORING WELL #MW-3</b>											
<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
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

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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)					
07/24/02	-	-	-	-	-	-	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
10/08/03	3,330	<0.22	<0.32	<0.31	<0.4	4,070	16.65	NP	0.00	99.76	83.11
01/15/04	102	2.1	3.5	<0.02	12	*28 / 17	14.18	NP	0.00	99.76	85.58
04/14/04	464	63	18	<0.31	16	189	13.45	NP	0.00	99.76	86.32
07/29/04	1,560	74	<3.2	30 J	<4.0	729	15.94	NP	0.00	99.76	83.82
10/14/04	2,490	25	<0.32	<0.31	<0.4	2,530	16.11	NP	0.00	99.76	83.65
<b>MONITORING WELL #MW-4</b> Screen Interval = 9 to 29 feet											
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
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



**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)					
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
10/08/03	12,500	64	<3.2	359	24 J	11,400	16.32	NP	0.00	100.48	84.16
01/15/04	12,300	11	4.4	66	4.0	*17,000 / 9,560	14.67	NP	0.00	100.48	85.81
04/14/04	7,340	<11	<16	<15.5	<20	13,500	13.68	NP	0.00	100.48	86.80
07/29/04	5,400	<2.2	<3.2	57	<4.0	6,730	15.50	NP	0.00	100.48	84.98
10/14/04	10,200	197	<3.2	233	13 J	3,940	16.08	NP	0.00	100.48	84.40
<b>MONITORING WELL #MW-5</b>											
<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

**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)					
07/14/94	<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
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
10/08/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	16.35	NP	0.00	101.98	85.63
01/15/04	<15	<0.04	<0.02	<0.02	<0.06	<0.03	15.06	NP	0.00	101.98	86.92
04/14/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	13.96	NP	0.00	101.98	88.02
07/29/04	659	<2.2	<3.2	<3.1	<4.0	606	15.60	NP	0.00	101.98	86.38
10/14/04	411	<0.22	<0.32	<0.31	<0.4	425	16.17	NP	0.00	101.98	85.81

**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)	MTBE (ug/L)					
<b>MONITORING WELL #MW-6</b> <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
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

**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)					
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
10/08/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	13.80	NP	0.00	100.44	86.64
01/15/04	<15	<0.04	<0.02	<0.02	<0.06	<0.03	13.51	NP	0.00	100.44	86.93
04/14/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	11.62	NP	0.00	100.44	88.82
07/29/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	13.12	NP	0.00	100.44	87.32
10/14/04	346	<0.22	<0.32	<0.31	<0.4	159	13.53	NP	0.00	100.44	86.91

**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  
 On 10/8/03 & 7/14/2003, BTEX and MTBE analyzed by 8260B  
 Beginning 4/14/2004, 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)
<b>MONITORING WELL # MW-1</b>				
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
10/08/03	<0.29	<0.17	15	487
01/15/04	-	-	-	-
04/14/04	-	-	-	-
07/29/04	-	-	-	-
10/14/04	-	-	-	-
<b>MONITORING WELL # MW-2</b>				
10/16/97	<20	<20	<20	<500
<b>MONITORING WELL # MW-3 (GROUNDWATER SYSTEM'S PUMPING WELL)</b>				
10/16/97	-	-	-	-
01/07/98	-	-	-	-
04/03/98	-	-	-	-
07/14/03	<0.29	<0.17	24	608
10/08/03	<0.29	<0.17	30	<10
01/15/04	-	-	-	-
04/14/04	-	-	-	-
07/29/04	-	-	-	-
10/14/04	-	-	-	-
<b>MONITORING WELL # MW-4</b>				
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
10/08/03	<2.9	<1.7	101	<100
01/15/04	-	-	-	-
04/14/04	-	-	-	-
07/29/04	-	-	-	-
10/14/04	-	-	-	-
<b>MONITORING WELL # MW-5</b>				
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
10/08/03	<0.29	<0.17	<0.28	<10
01/15/04	-	-	-	-
04/14/04	-	-	-	-
07/29/04	-	-	-	-
10/14/04	-	-	-	-

**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)
<b>MONITORING WELL # MW-6</b>				
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
10/08/03	<0.29	<0.17	<0.28	<10
01/15/04	-	-	-	-
04/14/04	-	-	-	-
07/29/04	-	-	-	-
10/14/04	-	-	-	-

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	28,460	26,811	579	-	<0.3	<0.3	<0.3	<0.9	-	-	-	150	0.83	14	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	86	-
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	68,645	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	680	-	<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	166,567	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	-

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 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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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	62,356	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	-	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	46,809.0	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	795,585	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	-	-	-	-	-	-	923	<0.6	2	85	80	*8,350/4,810
05/26/00	60,086.0	806,285	79	-	-	-	-	-	-	3,820	<0.3	<0.3	<0.3	<0.6	3,740
06/16/00	61,889 0	808,088	86	<50	<0.3	<0.3	<0.3	<0.6	<5	<50	<0.3	<0.3	<0.3	<0.6	<5
07/26/00	65,987 0	812,186	102	<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	-	-	-	-	-	-	10,000	384	223	<0.18	1,330	11,600
01/10/01	54,520	900,419	157	<50	<0.18	<0.14	<0.18	<0.26	<0.24	-	-	-	-	-	-
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	1,026	<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	1,741,609	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	-	1,839,639	-	-	<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	-	1,952,309	-	-	<0.5	<0.7	<0.8	<3.3	-	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

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 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	-	-	-	-	-	-	-	-	-	-	-	-
09/12/03	1,423,520	2,269,419	479	-	-	-	-	-	-	-	-	-	-	-	-
09/15/03	1,427,810	2,273,709	1,430	-	-	-	-	-	-	-	-	-	-	-	-
09/22/03	1,429,700	2,275,599	270	System shut down for installation of new 24-hour timer											
09/26/03	1,429,700	2,275,599	-	Restart											
09/29/03	1,430,560	2,276,459	287	-	-	-	-	-	-	-	-	-	-	-	-
10/06/03	1,431,140	2,277,039	83	System shut down for QWS											
10/08/03	1,431,140	2,277,039	-	Restart											
10/10/03	-	2,278,189	-	-	< 0.50	< 0.70	< 0.80	< 3.30	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
10/10/03	1,432,290	2,278,189	575	<15	<0.04	<0.02	<0.02	<0.06	<0.03	16,200	<0.04	4.4	4.8	46	8,700
10/17/03	1,433,790	2,279,689	214	-	-	-	-	-	-	-	-	-	-	-	-
10/22/03	-	2,280,489	-	-	< 0.50	< 0.70	< 0.80	< 3.30	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
10/22/03	1,434,590	2,280,489	160	<15	<0.04	<0.02	<0.02	<0.06	<0.03	Split-sample results (sample collected by us)					
10/27/03	1,435,610	2,281,509	204	-	-	-	-	-	-	-	-	-	-	-	-
11/03/03	1,438,740	2,284,639	447	-	-	-	-	-	-	-	-	-	-	-	-
11/14/03	1,443,620	2,289,519	444	-	-	-	-	-	-	-	-	-	-	-	-
11/21/03	1,447,510	2,293,409	556	-	-	-	-	-	-	-	-	-	-	-	-
12/05/03	1,452,410	2,298,309	350	-	-	-	-	-	-	-	-	-	-	-	-
12/09/03	1,458,320	2,304,219	1,478	-	-	-	-	-	-	-	-	-	-	-	-
12/17/03	1,462,410	2,308,309	511	-	-	-	-	-	-	-	-	-	-	-	-
12/26/03	1,468,630	2,314,529	691	-	-	-	-	-	-	-	-	-	-	-	-
12/31/03	1,469,710	2,315,609	216	-	-	-	-	-	-	-	-	-	-	-	-
01/06/04	1,472,000	2,317,899	382	<15	<0.04	<0.02	<0.02	<0.06	<0.03	7,900	658	1,560	62	1,090	2,170

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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
01/14/04	1,474,650	2,320,549	331	System shut down for QWS; Restarted 1/15/04						-	-	-	-	-	-
01/28/04	-	2,331,689	-	-	<0.50	<0.70	<0.80	<3.30	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
01/28/04	1,485,790	2,331,689	857	<15	<0.04	<0.02	<0.02	<0.06	<0.03	Split-sample results (sample collected by us)					
02/04/04	1,492,340	2,338,239	936	-	-	-	-	-	-	-	-	-	-	-	
02/10/04	1,494,550	2,340,449	368	-	-	-	-	-	-	-	-	-	-	-	
02/20/04	1,498,790	2,344,689	424	-	-	-	-	-	-	-	-	-	-	-	
02/25/04	1,499,360	2,345,259	114	-	-	-	-	-	-	-	-	-	-	-	
03/03/04	1,514,700	2,360,599	2,191	-	-	-	-	-	-	-	-	-	-	-	
03/09/04	1,517,300	2,363,199	433	-	-	-	-	-	-	-	-	-	-	-	
03/17/04	1,519,100	2,364,999	225	-	-	-	-	-	-	-	-	-	-	-	
03/24/04	1,524,600	2,370,499	786	-	-	-	-	-	-	-	-	-	-	-	
04/01/04	1,529,300	2,375,199	588	-	-	-	-	-	-	-	-	-	-	-	
04/07/04	1,531,200	2,377,099	317	<15	<0.22	<0.32	<0.31	<0.4	<0.18	1,380	113	93	16	76	191
04/14/04	1,533,000	2,378,899	257	System shut down for QWS on 4/7, Restarted 4/14						-	-	-	-	-	
04/22/04	1,576,400	2,422,299	5,425	-	-	-	-	-	-	-	-	-	-	-	
04/28/04	1,623,500	2,469,399	7,850	-	-	-	-	-	-	-	-	-	-	-	
05/06/04	1,668,920	2,514,819	5,678	-	-	-	-	-	-	-	-	-	-	-	
05/13/04	1,691,100	2,536,999	3,169	-	-	-	-	-	-	-	-	-	-	-	
05/20/04	1,726,500	2,572,399	5,057	-	-	-	-	-	-	-	-	-	-	-	
05/28/04	1,748,910	2,594,809	2,801	-	-	-	-	-	-	-	-	-	-	-	
06/04/04	1,749,320	2,595,219	59	Found system off; for replacement of on and off switch						-	-	-	-	-	
06/11/04	1,749,320	2,595,219	-	Restarted						-	-	-	-	-	
06/16/04	1,751,910	2,597,809	518	-	-	-	-	-	-	-	-	-	-	-	
06/22/04	1,753,550	2,599,449	273	-	-	-	-	-	-	-	-	-	-	-	
07/02/04	1,756,530	2,602,429	298	-	-	-	-	-	-	-	-	-	-	-	
07/08/04	1,759,110	2,605,009	430	<15	<0.22	<0.32	<0.31	<0.4	<0.18	652	31	<0.32	<0.31	2.1J	383
07/15/04	1,759,260	2,605,159	21	-	-	-	-	-	-	-	-	-	-	-	
07/22/04	1,760,630	2,606,529	196	-	-	-	-	-	-	-	-	-	-	-	
07/28/04	1,762,810	2,608,709	363	Shut down system for carbon change						-	-	-	-	-	
08/05/04	1,762,810	2,608,709	-	Restarted						-	-	-	-	-	
08/12/04	1,765,370	2,611,269	366	-	-	-	-	-	-	-	-	-	-	-	
08/20/04	1,767,950	2,613,849	323	-	-	-	-	-	-	-	-	-	-	-	
08/27/04	1,771,100	2,616,999	450	-	-	-	-	-	-	-	-	-	-	-	
09/03/04	1,773,750	2,619,649	379	-	-	-	-	-	-	-	-	-	-	-	
09/07/04	1,777,590	2,623,489	960	-	-	-	-	-	-	-	-	-	-	-	
09/10/04	1,778,460	2,624,359	290	Shut down system due to operator vacation						-	-	-	-	-	
09/29/04	1,778,460	2,624,359	-	Restarted						-	-	-	-	-	
10/06/04	1,779,260	2,625,159	114	<15	<0.22	<0.32	<0.31	<0.4	<0.18	<15	<0.22	<0.32	<0.31	<0.4	20
10/12/04	1,782,540	2,628,439	547	Shut down system for QWS						-	-	-	-	-	
10/21/04	1,782,680	2,628,579	16	Restarted						-	-	-	-	-	
10/27/04	1,784,630	2,630,529	325	-	-	-	-	-	-	-	-	-	-	-	
11/03/04	1,784,680	2,630,579	7	System was shut down by mistake, run only for few hours						-	-	-	-	-	
11/11/04	1,787,490	2,633,389	351	-	-	-	-	-	-	-	-	-	-	-	
11/19/04	1,789,350	2,635,249	233	-	-	-	-	-	-	-	-	-	-	-	

**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
12/01/04	1,789,800	2,635,699	38	-	-	-	-	-	-	-	-	-	-	-	-
12/10/04	1,792,780	2,638,679	331	-	-	-	-	-	-	-	-	-	-	-	-
12/15/04	1,795,460	2,641,359	536	-	-	-	-	-	-	-	-	-	-	-	-

<b>WD PERMIT LIMITS:</b>	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 8020/8021  
 \*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.

# ***FIGURES***

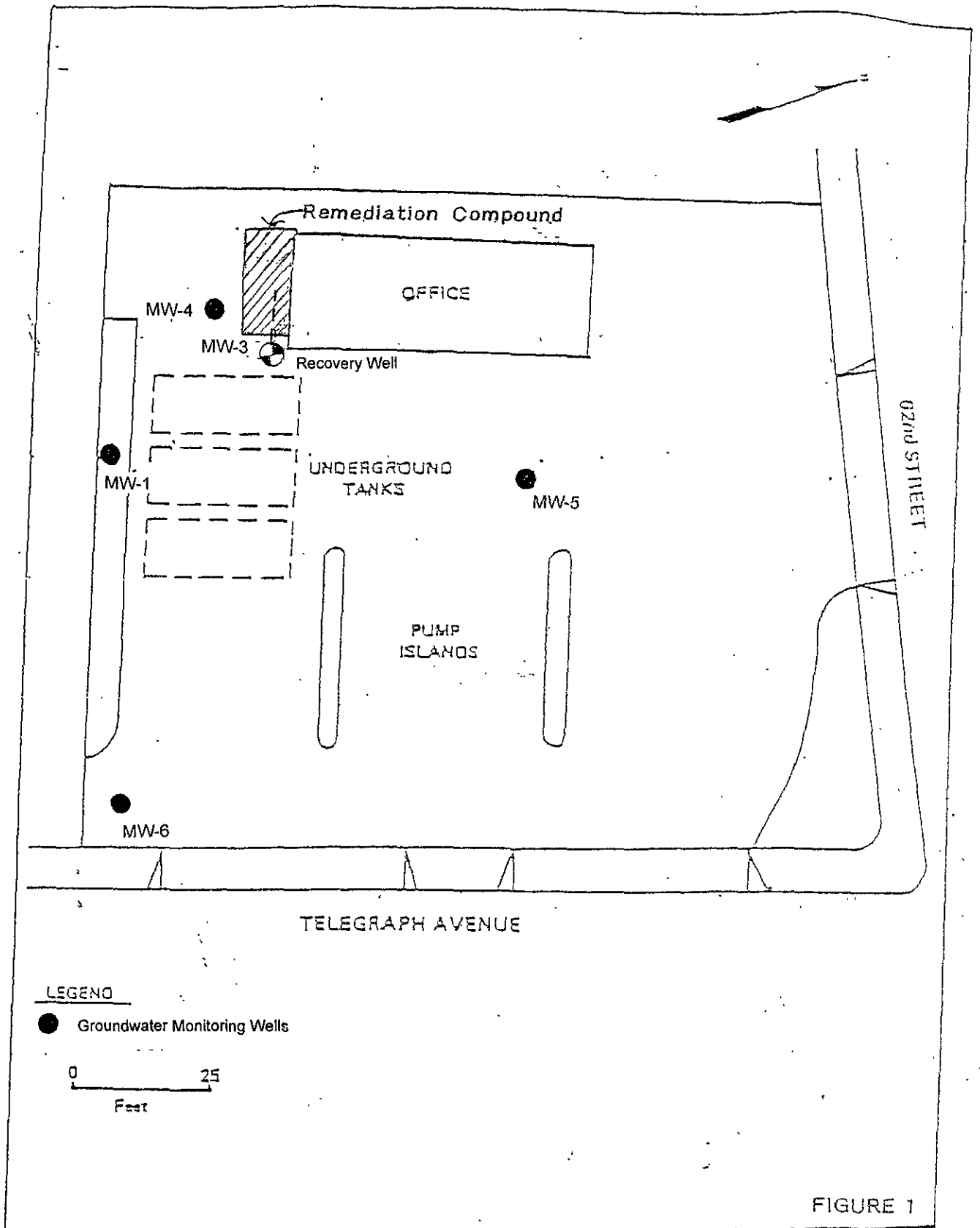


FIGURE 1

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



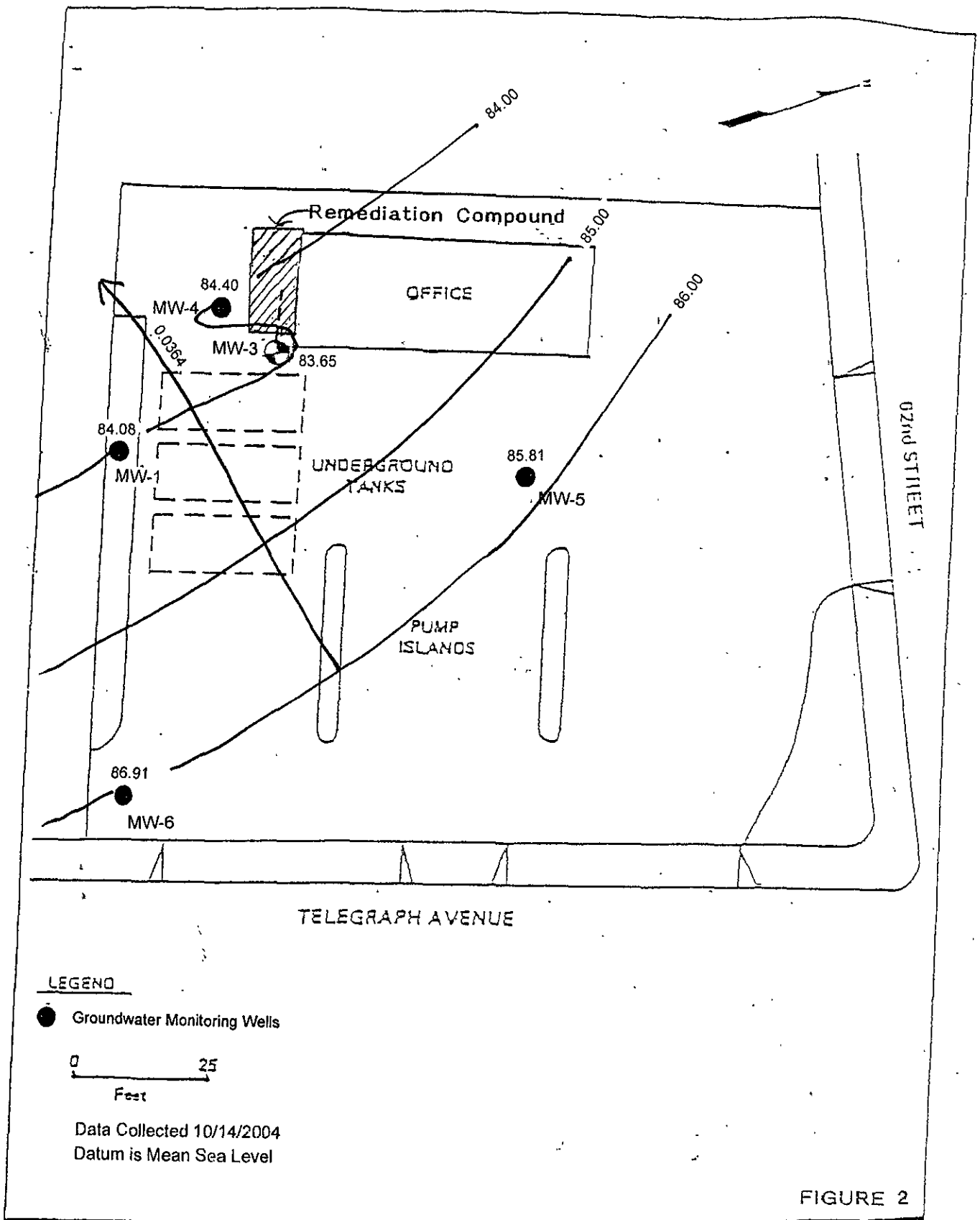
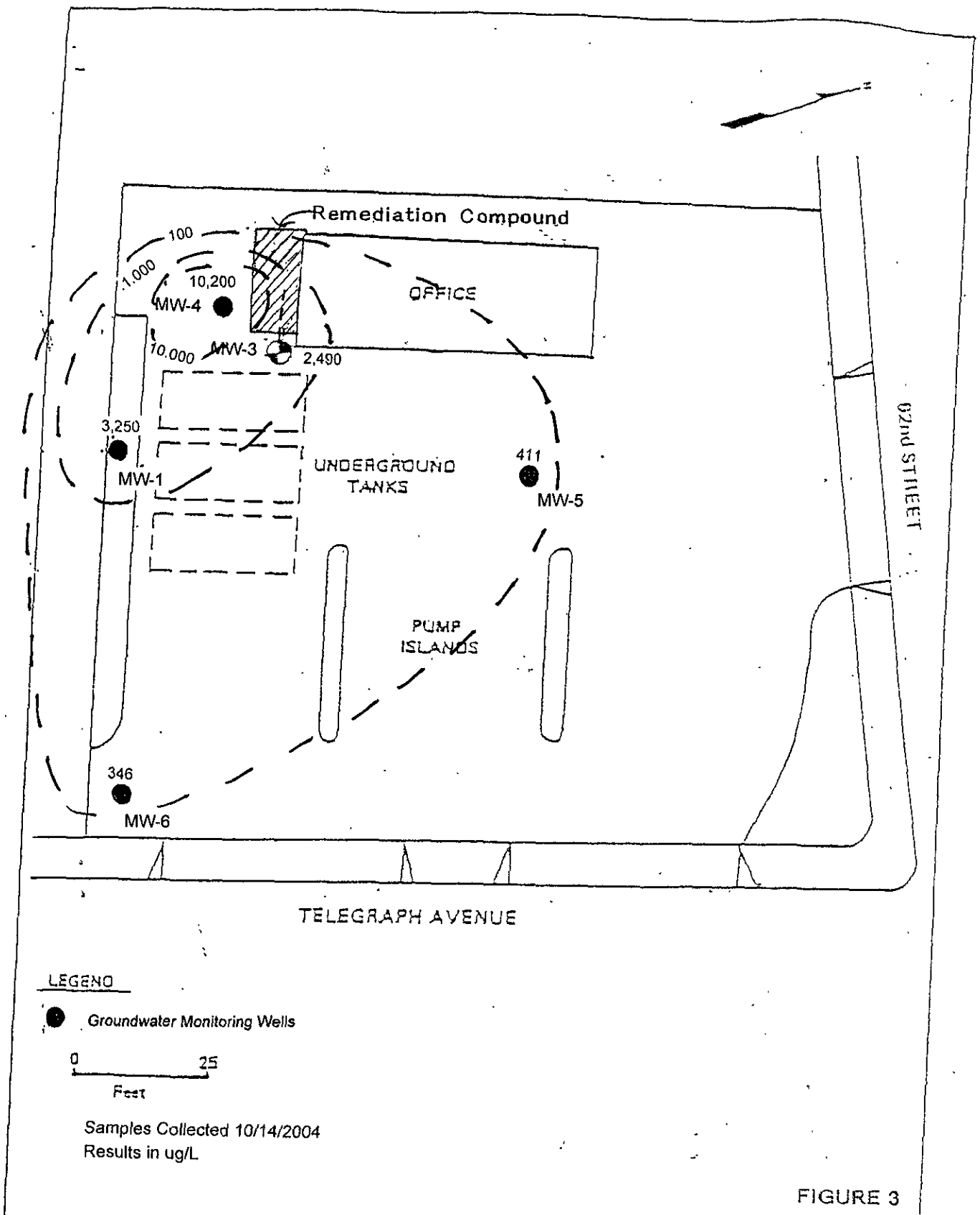


FIGURE 2

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



TPHg Isoconcentration Map  
 THRIFTY SERVICE STATION NO. 63  
 6125 TELEGRAPH AVE.  
 OAKLAND, CA

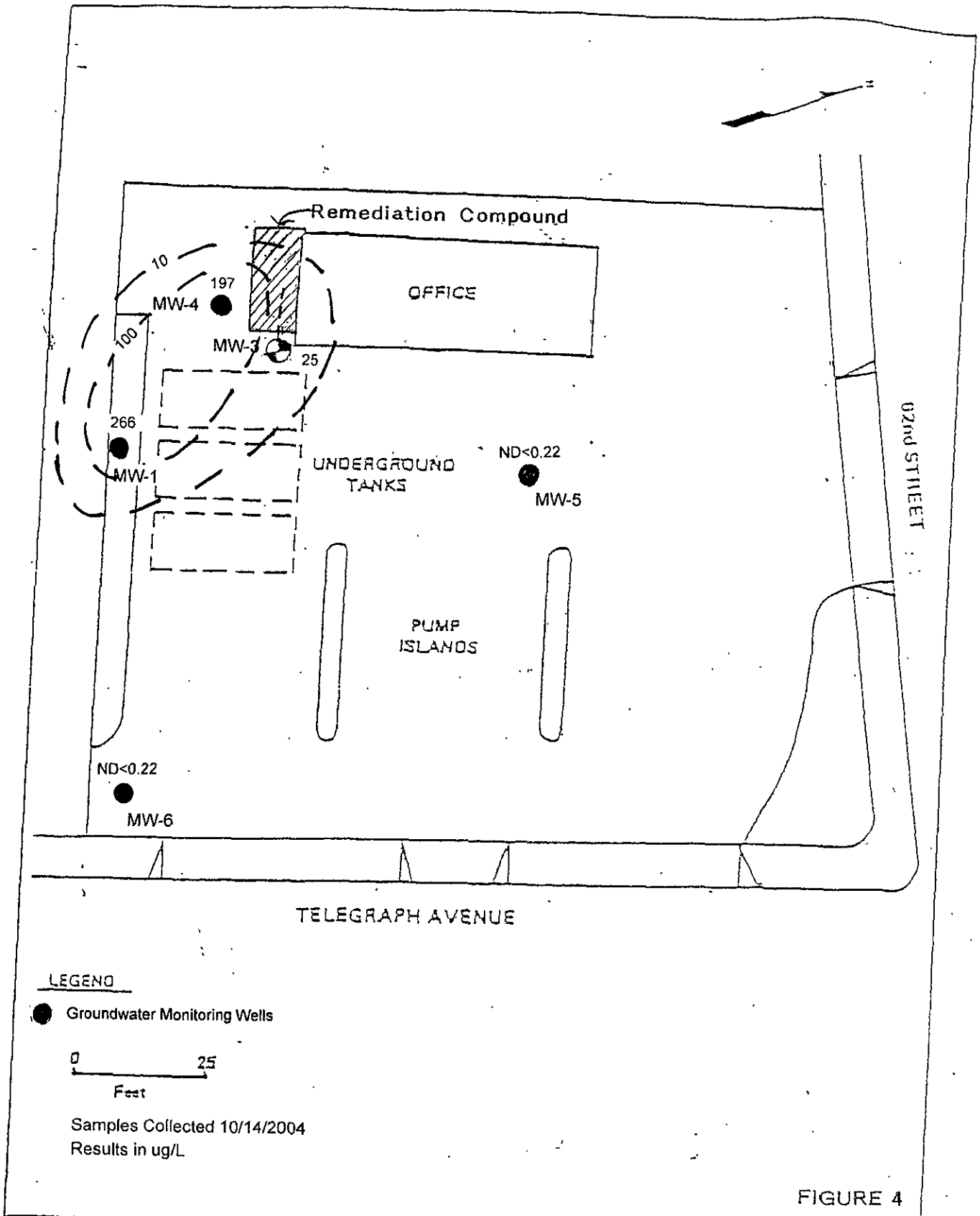


FIGURE 4

Benzene Isoconcentration Map  
 THRIFTY SERVICE STATION NO. 63  
 6125 TELEGRAPH AVE.  
 OAKLAND CA

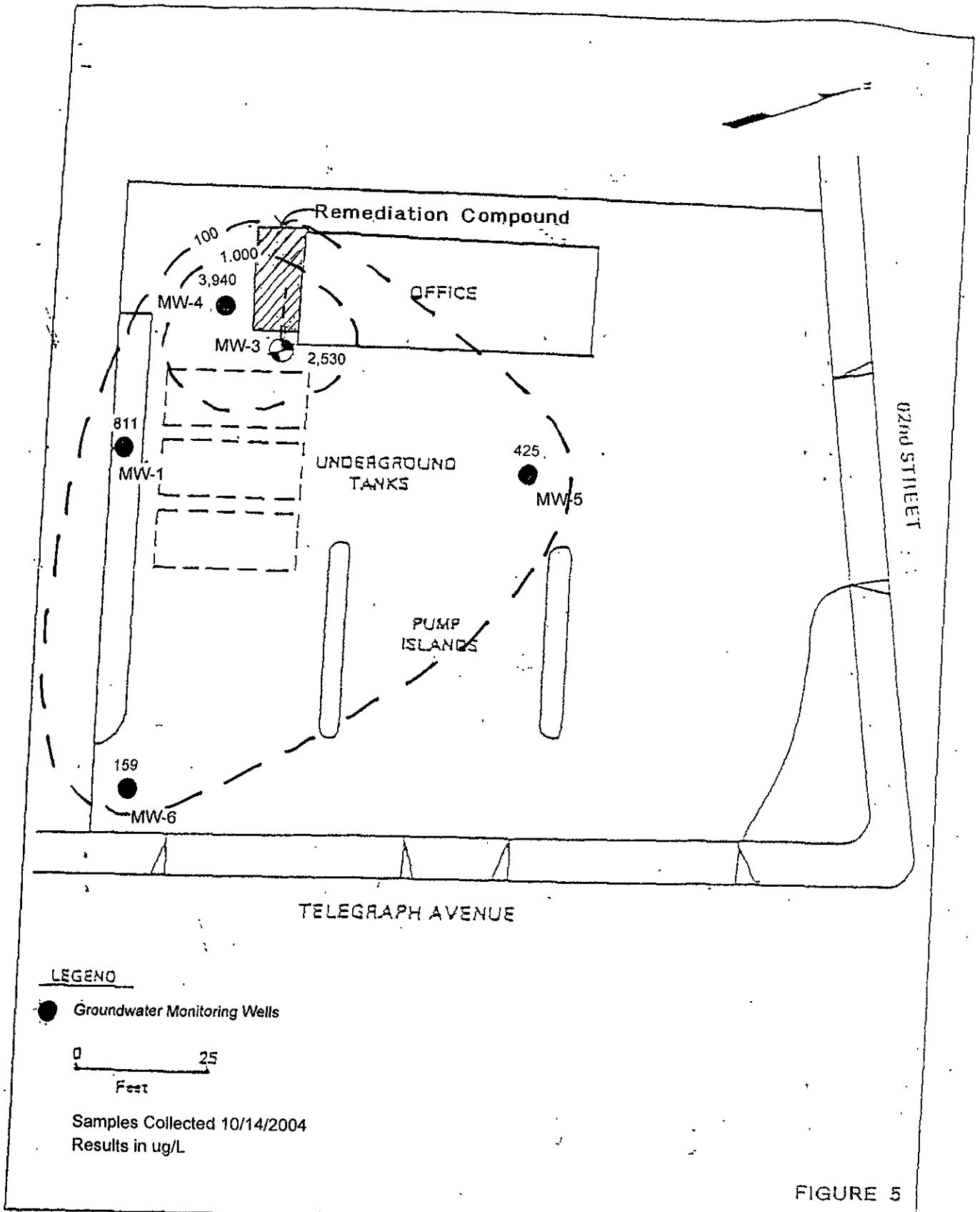


FIGURE 5

MTBE Isoconcentration Map  
 THRIFTY SERVICE STATION NO. 63  
 6125 TELEGRAPH AVE.  
 OAKLAND CA

# ***APPENDIX A***



FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	H 063	Date:	10-14-04
Address:			
Personnel:	SRRBM	Weather:	SUNNY DAY
Well No:	MW-1	Equip:	BAUER

Before Purging:			
Total Well Depth: (ft.)	28.94	Well Diameter	24
Depth to Water (ft)	15.26	Est. Purge Volume:	9

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	11:07	11:10	11:13	11:16	11:20		
EC	1370	1350	1330	1340	1350		
pH	5.24	5.21	5.20	5.20	5.23		
Temp	21.1	21.3	21.3	21.5	21.6		
Gal.	1	3	5	7	9		
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	17.09	Total Well Depth(ft.)	28.94

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site: <u>H 063</u>	Date: <u>10-14-04</u>
Address: _____	
Personnel: <u>3ERBAW</u>	Weather: <u>SUNNY DAY</u>
Well No: <u>MW-3</u>	Equip: <u>BAILER</u>

Before Purging:			
Total Well Depth: (ft.)	<u>28.20</u>	Well Diameter	<u>64</u>
Depth to Water (ft)	<u>15.11</u>	Est. Purge Volume:	<u>70</u>

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	<u>9:56</u>	<u>10:12</u>	<u>10:29</u>	<u>10:44</u>	<u>11:00</u>		
EC	<u>1430</u>	<u>1410</u>	<u>1380</u>	<u>1410</u>	<u>1430</u>		
pH	<u>6.03</u>	<u>6.01</u>	<u>6.07</u>	<u>6.11</u>	<u>6.09</u>		
Temp	<u>70.6</u>	<u>70.4</u>	<u>70.6</u>	<u>70.3</u>	<u>70.1</u>		
Gal.	<u>14</u>	<u>28</u>	<u>42</u>	<u>56</u>	<u>70</u>		
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection	
Depth to Water (ft.)	Total Well Depth(ft.)
<u>16.14</u>	<u>28.20</u>



FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	# 063	Date:	10-14-04
Address:			
Personnel:	SERBAN	Weather:	SUNNY DAY
Well No:	MW-4	Equip:	BAIFER

<b>Before Purging:</b>			
Total Well Depth: (ft.)	29.04	Well Diameter	24
Depth to Water (ft)	16.08	Est. Purge Volume:	8

<b>Sampling Data:</b>							
<b>Initial Turbidity:</b>				<b>Final Turbidity:</b>			
Time	12:50	12:52	12:54	12:57	13:00		
EC	1450	1400	1400	1390	1400		
pH	5.65	5.67	5.66	5.65	5.66		
Temp	21.9	21.8	21.6	21.6	21.3		
Gal.	1	2	4	6	8		
Time							
EC							
pH							
Temp							
Gal.							

<b>After Purging/Before Sample Collection</b>			
Depth to Water (ft.)	18.13	Total Well Depth(ft).	29.04

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	H 063	Date:	10-14-04
Address:			
Personnel:	SERBAN	Weather:	SUNNY DAY
Well No:	MW-5	Equip:	BAUER

Before Purging:			
Total Well Depth: (ft.)	26.23	Well Diameter	44
Depth to Water (ft)	16.17	Est. Purge Volume:	26

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	11:34	11:40	11:47	11:53	12:00		
EC	1010	1030	1020	1010	1030		
pH	5.82	5.83	5.81	5.84	5.83		
Temp	71.4	71.6	71.6	71.8	71.6		
Gal.	5	10	15	20	26		
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	17.32	Total Well Depth(ft.)	26.23

FIELD DATA - GROUNDWATER SAMPLING PROGRAM

Site:	# 063	Date:	10-14-04
Address:			
Personnel:	SERBAN	Weather:	SUNNY DAY
Well No:	MW-6	Equip:	BAUER

Before Purging:			
Total Well Depth: (ft.)	26.80	Well Diameter	44
Depth to Water (ft)	13.53	Est. Purge Volume:	35

Sampling Data:							
Initial Turbidity:				Final Turbidity:			
Time	12:12	12:20	12:28	12:36	12:45		
EC	1270	1280	1280	1280	1220		
pH	6.52	5.50	5.58	5.59	5.58		
Temp	71.1	71.3	71.2	71.4	71.3		
Gal.	8	14	21	28	35		
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	16.21	Total Well Depth(ft.)	26.80

## ***APPENDIX B***



**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

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

LAB REQUEST 138493

REPORTED 10/26/2004

RECEIVED 10/15/2004

PROJECT Station #063  
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.

Order No.

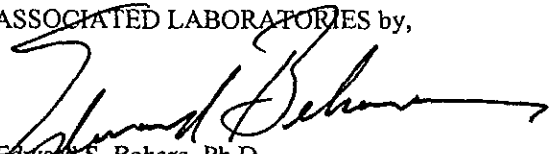
564981  
564982  
564983  
564984  
564985  
564986  
564987

Client Sample Identification

TOC #063 MW-3  
TOC #063 MW-1  
TOC #063 MW-5  
TOC #063 MW-6  
TOC #063 MW-4  
TOC #063 Trip Blank  
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 #: 564981

Client Sample ID: TOC #063 MW-3

Matrix: WATER

Date Sampled: 10/14/2004 Time Sampled: 13:10

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

**8260B BTEX/MTBE Only**

Benzene	25	1	1	0.22	ug/L	10/21/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/21/04 LB
Methyl-tert-butylether (MTBE)	2530	25	25.0	0.18	ug/L	10/22/04 LB
Toluene	ND	1	5	0.32	ug/L	10/21/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/21/04 LB

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	101			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	106			%	70 - 130
Surr3 - Toluene-d8	99			%	70 - 130
Surr4 - p-Bromofluorobenzene	101			%	70 - 130

**8015M - Gasoline**

Gasoline	2490	10	500.0	15	ug/L	10/18/04 LZ
----------	------	----	-------	----	------	-------------

**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	89			%	55 - 200

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



Order #: 564982

Client Sample ID: TOC #063 MW-1

Matrix: WATER

Date Sampled: 10/14/2004 Time Sampled: 13:25

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	266	1	1	0.22	ug/L	10/21/04 LB
Ethyl benzene	59	1	5	0.31	ug/L	10/21/04 LB
Methyl-tert-butylether (MTBE)	811	1	1	0.18	ug/L	10/21/04 LB
Toluene	ND	1	5	0.32	ug/L	10/21/04 LB
Xylenes, total	78	1	5	0.4	ug/L	10/21/04 LB
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
Surr1 - Dibromofluoromethane	101				%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	73				%	70 - 130
Surr3 - Toluene-d8	90				%	70 - 130
Surr4 - p-Bromofluorobenzene	100				%	70 - 130
<b>8015M - Gasoline</b>						
Gasoline	3250	1	50	15	ug/L	10/18/04 LZ
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
a,a,a-Trifluorotoluene	248*				%	55 - 200

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



Order #: 564983

Client Sample ID: TOC #063 MW-5

Matrix: WATER

Date Sampled: 10/14/2004 Time Sampled: 14:10

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

Benzene	ND	1	1	0.22	ug/L	10/22/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/22/04 LB
Methyl-tert-butylether (MTBE)	425	1	1	0.18	ug/L	10/22/04 LB
Toluene	ND	1	5	0.32	ug/L	10/22/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/22/04 LB

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	102			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	105			%	70 - 130
Surr3 - Toluene-d8	99			%	70 - 130
Surr4 - p-Bromofluorobenzene	99			%	70 - 130

**8015M - Gasoline**

Gasoline	411	1	50	15	ug/L	10/20/04 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 #: 564984

Client Sample ID: TOC #063 MW-6

Matrix: WATER

Date Sampled: 10/14/2004 Time Sampled: 14:50

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

Benzene	ND	1	1	0.22	ug/L	10/21/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/21/04 LB
Methyl-tert-butylether (MTBE)	159	1	1	0.18	ug/L	10/21/04 LB
Toluene	ND	1	5	0.32	ug/L	10/21/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/21/04 LB

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	104			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	106			%	70 - 130
Surr3 - Toluene-d8	96			%	70 - 130
Surr4 - p-Bromofluorobenzene	98			%	70 - 130

**8015M - Gasoline**

Gasoline	346	1	50	15	ug/L	10/18/04 LZ
----------	-----	---	----	----	------	-------------

**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	159			%	55 - 200

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

ND = Not detected below indicated MDL, J=Trace



Order #: 564985

Client Sample ID: TOC #063 MW-4

Matrix: WATER

Date Sampled: 10/14/2004 Time Sampled: 15:10

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

**8260B BTEX/MTBE Only**

Benzene	197	10	10.0	0.22	ug/L	10/22/04 LB
Ethyl benzene	233	10	50.0	0.31	ug/L	10/22/04 LB
Methyl-tert-butylether (MTBE)	3940	10	10.0	0.18	ug/L	10/22/04 LB
Toluene	ND	10	50.0	0.32	ug/L	10/22/04 LB
Xylenes, total	13 J	10	50.0	0.4	ug/L	10/22/04 LB

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	102			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	98			%	70 - 130
Surr3 - Toluene-d8	97			%	70 - 130
Surr4 - p-Bromofluorobenzene	103			%	70 - 130

**8015M - Gasoline**

Gasoline	10200	10	500.0	15	ug/L	10/20/04 LZ
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**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	120			%	55 - 200

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

ND = Not detected below indicated MDL, J=Trace



Order #: 564986

Client Sample ID: TOC #063 Trip Blank

Matrix: WATER

Date Sampled: 10/14/2004 Time Sampled: 00:00

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

**8260B BTEX/MTBE Only**

Benzene	ND	1	1	0.22	ug/L	10/21/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/21/04 LB
Toluene	ND	1	5	0.32	ug/L	10/21/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/21/04 LB

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	103			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	107			%	70 - 130
Surr3 - Toluene-d8	92			%	70 - 130
Surr4 - p-Bromofluorobenzene	98			%	70 - 130

**8015M - Gasoline**

Gasoline	ND	1	50	15	ug/L	10/18/04 LZ
----------	----	---	----	----	------	-------------

**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	75			%	55 - 200

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

ND = Not detected below indicated MDL, J=Trace



Order #: 564987

Client Sample ID: Laboratory Method Blank

Matrix: WATER

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

**8260B BTEX/MTBE Only**

Benzene	ND	1	1	0.22	ug/L	10/21/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/21/04 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.18	ug/L	10/21/04 LB
Toluene	ND	1	5	0.32	ug/L	10/21/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/21/04 LB

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	106			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	110			%	70 - 130
Surr3 - Toluene-d8	97			%	70 - 130
Surr4 - p-Bromofluorobenzene	102			%	70 - 130

**8015M - Gasoline**

Gasoline	ND	1	50	15	ug/L	10/18/04 LZ
----------	----	---	----	----	------	-------------

**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	76			%	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 - METHOD 8260 / 624 / 524.2

QC Sample: MS / MSD - Water Samples 138611-539

Analysis Date: October 23, 2004 3:03 PM

Applies to: LR 138493, 138552, 138362, 138611

Reporting Units = ug/L

**Matrix Spike / Matrix Spike Duplicate**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk Dup.	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	54.16	56.17	108	112	4	22	59-172
MTBE	3.04	50	53.59	55.71	101	105	4	24	62-137
Benzene	ND	50	53.39	55.34	107	111	4	24	62-137
Trichloroethene	ND	50	50.67	55.01	101	110	8	21	66-142
Toluene	ND	50	51.43	53.49	103	107	4	21	59-139
Chlorobenzene	ND	50	52.31	56.63	105	113	8	21	60-133

QC Sample: LCS/LCSD 6:46 PM

Analysis Date: October 22, 2004

**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	53.69	52.97	107	106	1	22	59-172
MTBE	ND	50	50.88	50.66	102	101	0	24	62-137
Benzene	ND	50	52.28	51.72	105	103	1	24	62-137
Trichloroethene	ND	50	51.56	52.11	103	104	1	21	66-142
Toluene	ND	50	50.74	51.78	101	104	2	21	59-139
Chlorobenzene	ND	50	50.63	51.85	101	104	2	21	60-133

Method Blank = All ND

**SURROGATE ( QC Limits : 70-135 )**

Compound	MB 2	MB 3	MS	MSD	LCS	LCSD
DBFM	101	102	102	105	103	100
1,2-DCA	105	105	95	98	97	95
Tol-d8	99	100	96	97	99	97
p-BFB	95	101	98	100	100	102

ASSOCIATED LABORATORIES  
**QA REPORT FORM - METHOD 8260 / 624 / 524.2**

QC Sample: MS / MSD - Water Samples 138552-249

Analysis Date: October 22, 2004 1:40 AM

Applies to: LR 138467, 138468, 138493, 138552

Reporting Units = ug/L

**Matrix Spike / Matrix Spike Duplicate**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk Dup.	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	59.20	57.26	118	115	3	22	59-172
MTBE	ND	50	56.27	54.45	113	109	3	24	62-137
Benzene	ND	50	57.99	56.63	116	113	2	24	62-137
Trichloroethene	ND	50	48.89	51.03	98	102	4	21	66-142
Toluene	ND	50	49.87	50.77	100	102	2	21	59-139
Chlorobenzene	ND	50	50.16	52.04	100	104	4	21	60-133

QC Sample: LCS/LCSD 2:45 PM

Analysis Date: October 21, 2004

**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	56.70	59.57	113	119	5	22	59-172
MTBE	ND	50	53.71	57.01	107	114	6	24	62-137
Benzene	ND	50	54.99	57.14	110	114	4	24	62-137
Trichloroethene	ND	50	51.59	51.73	103	103	0	21	66-142
Toluene	ND	50	51.33	51.71	103	103	1	21	59-139
Chlorobenzene	ND	50	51.41	52.40	103	105	2	21	60-133

Method Blank = All ND

**SURROGATE ( QC Limits : 70-135 )**

Compound	MB 1	MB 2	MS	MSD	LCS	LCSD
DBFM	106	102	105	105	101	103
1,2-DCA	110	105	98	95	95	97
Tol-d8	97	98	92	94	94	90
p-BFB	102	101	96	99	96	98

**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: LCS/LCSD  
 Matrix: WATER  
 Prep. Date: October 18, 2004  
 Analysis Date: October 18 - 19, 2004  
 ID#'s in Batch: LR 138489, 138493, 138552

**LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	505	533	101	107	5

*ND = Not Detected*

*LCS Result = Lab Control Sample Result*

*%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate*

*RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate*

<i>%REC LIMITS = 70 - 130</i>
<i>RPD LIMITS = 30</i>

**SURROGATE RECOVERY**

Sample No.	AAA-TFT
QC Limit	55-200
Method Blank	76
LCS	141
LCSD	154

*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: Thriftly 021 Project: TOC 0600101366

Date Cooler Received: 10-15 Date Cooler Opened: 10-15

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  Ice Packs \_\_\_\_\_ Bubble wrap \_\_\_\_\_  
Styrofoam \_\_\_\_\_ Paper \_\_\_\_\_ None \_\_\_\_\_ Other \_\_\_\_\_

Cooler Temperature: 4.5°C \*

\*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? Yes/No/Na  
If no, see the pH log for a list of samples containers regarding pH

Any other important information: \_\_\_\_\_

Receiving Department: m Date: 10-15



# Chain of Custody Record

**ASSOCIATED LABORATORIES**

806 North Batavia • Orange, CA 92868

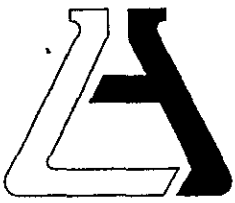
Phone: (714) 771-6900 • Fax: (714) 538-1209



Company: <b>THRIFTY OIL CO.</b>		Phone: <b>(562) 921-3581</b>		A.L. Job No: <b>138493</b>		Page _____ of _____						
Project Manager: <b>JEFF SURYAKOSUMA</b>		Fax: <b>(562) 921-7510</b>		Analysis Requested				Test Instructions & Comments				
Project Name: <b>Q.W.S.</b>		Project #: <b>T-0600101366</b>										
Site Name and Address: <b>6025 TELEGRAPH AVE. OAKLAND, CA 94609</b>				TPH (8015M) BTEX (8260B) MTBE (8260B)								
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH (8015M)	BTEX (8260B)	MTBE (8260B)			
1	MW-3	10-14-04	13:10	H <sub>2</sub> O	3-VOA	HCL	X	X	X			
2	MW-1	↓	13:25	↓	↓	↓	X	X	X			
3	MW-5		14:10				X	X	X			
4	MW-6		14:50				X	X	X			
5	MW-4		15:10				X	X	X			
6	TRIP BLANK		00:00				2-VOA	X	X			
7												
8												
9												
10												
11												
12												
13												
14												
15												

<b>Sample Receipt - To Be Filled By Laboratory</b>				Relinquished by Sampler: <b>E.M.C</b> 1.		Relinquished by <b>GOLDEN STATE</b> 2.		Relinquished by _____ 3.	
Total Number of Containers		Property Cooled Y / N / NA		Signature: <i>[Signature]</i>		Signature: <b>OVERNIGHT</b>		Signature:	
Custody Seals Y / N / NA		Samples Intact Y / N / NA		Printed Name: <b>SERBAN POPESCU</b>		Printed Name:		Printed Name:	
Received in Good Condition Y / N		Samples Accepted Y / N		Date: <b>10-14-04</b> Time: <b>17:00</b>		Date: _____ Time: _____		Date: _____ Time: _____	
<b>Turn Around Time</b>				Received By: <b>GOLDEN STATE</b> 1.		Received By: _____ 2.		Received By: _____ 3.	
<input checked="" type="checkbox"/> Normal		<input type="checkbox"/> Rush		Signature: <b>OVERNIGHT</b>		Signature: <i>[Signature]</i>		Signature:	
<input type="checkbox"/> Same Day		<input type="checkbox"/> 48 hrs.		Printed Name: _____		Printed Name: <b>overnight</b>		Printed Name:	
<input type="checkbox"/> 24 hrs.		<input type="checkbox"/> 72 hrs.		Date: _____ Time: _____		Date: <b>10-15-04</b> Time: <b>10:00</b>		Date: <b>10-15-04</b> Time: <b>4:10</b>	



**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

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

LAB REQUEST 137911

REPORTED 10/13/2004

RECEIVED 10/07/2004

PROJECT Station #063  
6125 Telegraph Ave., Oakland

SUBMITTER Client

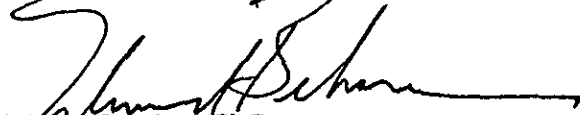
COMMENTS

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>
562103	TOC #063 Outlet PSP
562104	TOC #063 Int.-1
562105	TOC #063 Int.-2
562106	TOC #063 Int.-3
562107	TOC #063 Inlet
562108	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 #: 562103

Client Sample ID: TOC #063 Outlet PSP

Matrix: WATER

Date Sampled: 10/06/2004 Time Sampled: 10:05

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

Benzene	ND	1	1	0.22	ug/L	10/09/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/09/04 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.18	ug/L	10/09/04 LB
Toluene	ND	1	5	0.32	ug/L	10/09/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/09/04 LB

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	109			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	80			%	70 - 130
Surr3 - Toluene-d8	99			%	70 - 130
Surr4 - p-Bromofluorobenzene	118			%	70 - 130

**8015M - Gasoline**

Gasoline	ND	1	50	15	ug/L	10/08/04 LZ
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**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	75			%	55 - 200

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



Order #: 562104

Client Sample ID: TOC #063 Int.-1

Matrix: WATER

Date Sampled: 10/06/2004 Time Sampled: 10:10

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

Benzene	ND	1	1	0.22 ug/L	10/09/04 LB
Ethyl benzene	ND	1	5	0.31 ug/L	10/09/04 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.18 ug/L	10/09/04 LB
Toluene	ND	1	5	0.32 ug/L	10/09/04 LB
Xylenes, total	ND	1	5	0.4 ug/L	10/09/04 LB

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	95			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	98			%	70 - 130
Surr3 - Toluene-d8	94			%	70 - 130
Surr4 - p-Bromofluorobenzene	124			%	70 - 130

**8015M - Gasoline**

Gasoline	ND	1	50	15 ug/L	10/08/04 LZ
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**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	75			%	55 - 200

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



Order #: 562105

Client Sample ID. TOC #063 Int.-2

Matrix: WATER

Date Sampled: 10/06/2004 Time Sampled: 10:15

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	ND	1	1	0.22 ug/L		10/09/04 LB
Ethyl benzene	ND	1	5	0.31 ug/L		10/09/04 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.18 ug/L		10/09/04 LB
Toluene	ND	1	5	0.32 ug/L		10/09/04 LB
Xylenes, total	ND	1	5	0.4 ug/L		10/09/04 LB
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
Surr1 - Dibromofluoromethane	94			%	70 - 130	
Surr2 - 1,2-Dichloroethane-d4	114			%	70 - 130	
Surr3 - Toluene-d8	96			%	70 - 130	
Surr4 - p-Bromofluorobenzene	124			%	70 - 130	
<b>8015M - Gasoline</b>						
Gasoline	ND	1	50	15 ug/L		10/08/04 LZ
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
a,a,a-Trifluorotoluene	78			%	55 - 200	

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



Order #: 562106

Client Sample ID: TOC #063 Int.-3

Matrix: WATER

Date Sampled: 10/06/2004 Time Sampled: 10:20

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

Benzene	ND	1	1	0.22	ug/L	10/09/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/09/04 LB
Methyl-tert-butylether (MTBE)	60	1	1	0.18	ug/L	10/09/04 LB
Toluene	ND	1	5	0.32	ug/L	10/09/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/09/04 LB

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	95			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	119			%	70 - 130
Surr3 - Toluene-d8	94			%	70 - 130
Surr4 - p-Bromofluorobenzene	120			%	70 - 130

**8015M - Gasoline**

Gasoline	83	1	50	15	ug/L	10/08/04 LZ
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**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	78			%	55 - 200

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

ND = Not detected below indicated MDL, J=Trace



Order #: 562108

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		10/08/04 LB
Ethyl benzene	ND	1	5	0.31 ug/L		10/08/04 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.18 ug/L		10/08/04 LB
Toluene	ND	1	5	0.32 ug/L		10/08/04 LB
Xylenes, total	ND	1	5	0.4 ug/L		10/08/04 LB

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	101			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	120			%	70 - 130
Surr3 - Toluene-d8	98			%	70 - 130
Surr4 - p-Bromofluorobenzene	126			%	70 - 130

**8015M - Gasoline**

Gasoline	ND	1	50	15 ug/L		10/08/04 LZ
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**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	75			%	55 - 200

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



Order #: 562107

Client Sample ID: TOC #063 Inlet

Matrix: WATER

Date Sampled: 10/06/2004 Time Sampled: 10:30

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	ND	1	1	0.22	ug/L	10/09/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/09/04 LB
Methyl-tert-butylether (MTBE)	20	1	1	0.18	ug/L	10/09/04 LB
Toluene	ND	1	5	0.32	ug/L	10/09/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/09/04 LB
<b>Surrogates</b>						
					<b>Units</b>	<b>Control Limits</b>
Surr1 - Dibromofluoromethane	98				%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	109				%	70 - 130
Surr3 - Toluene-d8	98				%	70 - 130
Surr4 - p-Bromofluorobenzene	123				%	70 - 130
<b>8015M - Gasoline</b>						
Gasoline	ND	1	50	15	ug/L	10/08/04 LZ
<b>Surrogates</b>						
					<b>Units</b>	<b>Control Limits</b>
a,a,a-Trifluorotoluene	77				%	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**

QC Sample: LCS/LCSD  
 Matrix: WATER  
 Prep. Date: October 8, 2004  
 Analysis Date: October 8-9, 2004  
 ID#'s in Batch: LR 137883, 137911, 137903, 137900

**LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	494	478	99	96	3

*ND = Not Detected*

*LCS Result = Lab Control Sample Result*

*%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate*

*RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate*

<i>%REC LIMITS = 70 - 130</i>
<i>RPD LIMITS = 30</i>

**SURROGATE RECOVERY**

Sample No.	AAA-TFT
QC Limit	55-200
Method Blank	75
LCS	137
LCSD	134

*AAA-TFT = a,a,a-Trifluorotoluene*

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

QC Sample: MS / MSD - Water Samples 137903-062  
 Analysis Date: October 7, 2004 5:01 AM  
 Applies to: LR 137903, 137911  
 Reporting Units = ug/L

**Matrix Spike / Matrix Spike Duplicate**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	55.83	58.30	112	117	4	22	59-172
MTBE	1.40	50	53.75	57.39	105	112	7	24	62-137
Benzene	ND	50	51.88	55.38	104	111	7	24	62-137
Trichloroethene	2.68	50	54.33	54.47	103	104	0	21	66-142
Toluene	ND	50	50.37	50.58	101	101	0	21	59-139
Chlorobenzene	ND	50	49.56	50.88	99	102	3	21	60-133

QC Sample: LCS/LCSD 11:57 AM  
 Analysis Date: October 8, 2004

**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	54.76	55.34	110	111	1	22	59-172
MTBE	ND	50	51.11	53.54	102	107	5	24	62-137
Benzene	ND	50	51.60	53.97	103	108	4	24	62-137
Trichloroethene	ND	50	50.50	51.90	101	104	3	21	66-142
Toluene	ND	50	51.41	51.06	103	102	1	21	59-139
Chlorobenzene	ND	50	50.30	50.10	101	100	0	21	60-133

Method Blank = All ND

**SURROGATE ( QC Limits : 70-135 )**

Compound	MB 1	MB 2	MS	MSD	LCS	LCSD
DBFM	100	101	116	109	112	107
1,2-DCA	123	120	100	113	87	115
Tol-d8	95	98	100	100	100	100
p-BFB	116	126	113	112	108	112

ASSOCIATED LABORATORIES  
**QA REPORT FORM - METHOD 8260 / 624 / 524.2**

QC Sample: MS / MSD - Water Samples 137911-104

Analysis Date: October 9, 2004 12:02 PM

Applies to: LR 137911, 137902

Reporting Units = ug/L

**Matrix Spike / Matrix Spike Duplicate**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk Dup.	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	60.66	62.18	121	124	2	22	59-172
MTBE	ND	50	51.25	53.17	103	106	4	24	62-137
Benzene	ND	50	55.48	56.28	111	113	1	24	62-137
Trichloroethene	ND	50	60.11	65.66	120	131	9	21	66-142
Toluene	ND	50	48.16	50.60	96	101	5	21	59-139
Chlorobenzene	ND	50	45.60	48.85	91	98	7	21	60-133

QC Sample: LCS/LCSD 9:42 AM

Analysis Date: October 9, 2004

**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	37.57	35.75	75	72	5	22	59-172
MTBE	ND	50	54.31	47.24	109	94	14	24	62-137
Benzene	ND	50	56.62	49.34	113	99	14	24	62-137
Trichloroethene	ND	50	39.34	38.36	79	77	3	21	66-142
Toluene	ND	50	52.03	55.80	104	112	7	21	59-139
Chlorobenzene	ND	50	51.01	53.90	102	108	6	21	60-133

Method Blank = All ND

**SURROGATE ( QC Limits : 70-135 )**

Compound	MB 3	MB 4	MS	MSD	LCS	LCSD
DBFM	100	97	111	111	113	127
1,2-DCA	115	109	118	115	114	70
Tol-d8	107	98	99	99	100	104
p-BFB	122	120	109	114	110	112



**ASSOCIATED LABORATORIES**

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

### Cooler Receipt Form

Client: Thrifty oil Project: TOC 063

Date Cooler Received: 10-7 Date Cooler Opened: 10-7

Was cooler scanned for presence of radioactivity? Yes/No  
If yes was radioactivity results above 25 cpm? 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  Ice Packs \_\_\_\_\_ Bubble wrap \_\_\_\_\_  
Styrofoam \_\_\_\_\_ Paper \_\_\_\_\_ None \_\_\_\_\_ Other \_\_\_\_\_

Cooler Temperature: 3.5°C \*  
\*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? Yes/No/Na  
If no, see the pH log for a list of samples containers regarding pH

Any other important information: \_\_\_\_\_

Receiving Department: mw Date: 10-7



**Chain of Custody Record**

137911

Company	THRIFTY OIL CO.	Phone	(562) 921-3581	A.L. Job No.	137911
Project Manager	JOE P. SURYAKUSUMA	Fax	(562) 921-7510	Analysis Requested	
Project Name	System water sample	Project #	#063	Test Instructions & Comments	
Site Name and Address	6125 TELEGRAPH AVE OAKLAND, 94609				

Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH (8016M)	BTEX (8260B)	MTBE (8260B)											
1	OUTLET PSPM	10-06-04	10:05	H <sub>2</sub> O	3-VOA	HCL	X	X	X											#GRAB
2	INT-1	↓	10:10	↓	↓	↓	X	X	X											
3	INT-2	↓	10:15	↓	↓	↓	X	X	X											
4	INT-3	↓	10:20	↓	↓	↓	X	X	X											
5	INLET	↓	10:30	↓	↓	↓	X	X	X											
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

<b>Sample Receipt - To Be Filled By Laboratory</b>				Relinquished by Sampler:	EMC <sup>1</sup>	Relinquished by	GOLDEN STATE <sup>2</sup>	Relinquished by	<sup>3</sup>
Total Number of Containers	5	Property Cooled	Y/N/NA	Signature:	[Signature]	Signature:	OVERNIGHT	Signature:	
Custody Seals	Y/N/NA	Samples Intact	Y/N/NA	Printed Name:	SARBAU POPPEW	Printed Name:		Printed Name:	
Received in Good Condition	Y/N	Samples Accepted	Y/N	Date:	10-06-04	Time:	17:00	Date:	Time:
<b>Turn Around Time</b>				Received By:	GOLDEN STATE <sup>1</sup>	Received By:	<sup>2</sup>	Received By:	<sup>3</sup>
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature:	OVERNIGHT	Signature:	[Signature]	Signature:	
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name:		Printed Name:	mmw	Printed Name:	
				Date:		Date:	10-7	Date:	10-5-04
				Time:		Time:	9:50	Time:	3:55

# ***APPENDIX C***

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

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 12-15-04

OBSERVATIONS AND  
COMMENTS: CHECK BELT, ADD OIL, DRAIN COMPRESSOR  
TANK, CHECK HOSES AND DRUMS FOR WEAR, CLEAN  
WATER FILTER BAG, CHECK THREE STAGE FILTER  
REGULATOR, CHECK TIMER,

FLOW METER READING: - 1795460 -

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: 1.3

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

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

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 12-10-04

OBSERVATIONS AND  
COMMENTS: CHECK BELT, ADD OIL, DRAIN COMPRESSOR

TANK, CLEAN WATER FILTER BAG, REPLACE AIR FILTER

IN THREE STAGE FILTER/REGULATOR, CHECK HOSES AND

DRUMS FOR LEAK, CHECK TIMER,

FLOW METER READING: -1792780-

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

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 12-01-04

OBSERVATIONS AND  
COMMENTS: CHECK BELT, OIL, DRAIN COMPRESSOR  
TANK, CLEAN FILTER WATER BAG, CHECK FILTER  
IN THREE STAGE FILTER/REGULATOR,

FLOW METER READING: -1789800-

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. Popescu

063

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

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 11-19-04

OBSERVATIONS AND COMMENTS: CHECK BELT, CHANGE OIL, DRAIN COM-

PRESSOR TANK, REPLACE CARTRIDGE WATER

PILTER, CLEAN WATER FILTER BAG,

FLOW METER READING: 178.9350

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

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

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 11-11-04

OBSERVATIONS AND COMMENTS: DRAIN COMPRESSOR TANK, CHECK BELT,  
REPLACE CARTRIDGE WATER FILTER, CHANGE  
WATER FILTER BAG, CHANGE FILTER FOR  
THREE STAGE FILTER/REGULATOR, CHECK AIR  
AND WATER MASSES,

FLOW METER READING: -1787490-

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 12

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: [Signature]

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

NEW

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 11-03-04

OBSERVATIONS AND COMMENTS: CHECK BELT, OIL, DRAIN COMPRESSOR  
TANK, CLEAN WATER FILTER BAG, CHANGE HOUR  
FOR TIMER, CHECK THREE STAGE FILTER/REGULATOR,  
CHANGE OIL, SYSTEM WAS SHUT DOWN BY  
MISTAKE FROM INSIDE BUILDING, WAS RUNNING  
FEW HOURS ~

FLOW METER READING: -1784680-

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: [Signature]

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

NEW

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 10-27-04

OBSERVATIONS AND COMMENTS: CHECK OIL, BENT, CLEAN WATER  
FILTER BAG, DRAIN COMPRESSOR TANK  
CHECK AIR AND WATER HOSES, CHECK  
FILTER IN THREE STAGE FILTER/REGULATOR,  
CHECK TIMER,

FLOW METER READING: -1784630-

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: SERBANI POPEBU

DATE OF INSPECTION: 10-21-04

OBSERVATIONS AND  
COMMENTS: RESTART SYSTEM AFTER GWS -

FLOW METER READING: -1782680 -

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. Popebu



# SYSTEM STARTUP / SHU. DOWN REPORT

SITE:

#063

ADDR:

6125 TELEGRAPH AVE  
OAKLAND, 94612

DATE:

10-21-04

PERSON:

SERBAH

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	✓			1782680	
FPR	FP Recovery					
O	Other:					

**UTILITIES:**

Electrical Meter: N/A  
 Nat. gas Meter: N/A  
 Propane Tank Level: N/A

**OTHER NOTES:**

RESTART GWT AFTER Q.W.O.

**ALWAYS OBSERVE SAFETY PROCEDURES!**

063

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

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 10-12-04

OBSERVATIONS AND COMMENTS: SHUT DOWN FOR Q.W.S.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FLOW METER READING: -1782540-

SAMPLES OBTAINED: NO

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: 





SYSTEM STARTUP / SHUTDOWN REPORT

SITE:

#063

ADDR:

6125 TELEGRAPH AVE  
DALLAS, 94612

DATE:

10-12-04

PERSON:

TERBA

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		✓		1782540	
FPR	PP Recovery					
O	Other:					

UTILITIES:

Electrical Meter: N/A  
 Nat. gas Meter: N/A  
 Propane Tank Level: N/A

OTHER NOTES:

SHUT DOWN FOR Q.U.S., CHECK WELLS BOX, PLUGS,  
 CLEAN INSIDE CAMPOUT FOR REFUSE SAME PEOPLE  
 TROW OVER FENCE.

**ALWAYS OBSERVE SAFETY PROCEDURES!**

063

THRIFTY OIL CO. SERVICE STATION #063

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBACI POPADIC

DATE OF INSPECTION: 10-06-04

OBSERVATIONS AND COMMENTS: CHECK BELT, OIL, CLEAN WATER FILTER

BAG, DRAIN COMPRESSOR TANKS, CHECK PIPE AND HOSES FOR LEAKING,

FLOW METER READING: -1779260-

SAMPLES OBTAINED: YES (System sampling)

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]

# ***APPENDIX D***



**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

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

LAB REQUEST 137911 ✓

REPORTED 10/13/2004

RECEIVED 10/07/2004

PROJECT Station #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>
562103	TOC #063 Outlet PSP
562104	TOC #063 Int.-1
562105	TOC #063 Int.-2
562106	TOC #063 Int.-3
562107	TOC #063 Inlet
562108	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 #: 562104  
Matrix: WATER

Client sample ID: TOC #063 Int.-1  
Date Sampled: 10/06/2004 Time Sampled: 10:10

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	ND	1	1	0.22	ug/L	10/09/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/09/04 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.18	ug/L	10/09/04 LB
Toluene	ND	1	5	0.32	ug/L	10/09/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/09/04 LB
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
Surr1 - Dibromofluoromethane	95				%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	98				%	70 - 130
Surr3 - Toluene-d8	94				%	70 - 130
Surr4 - p-Bromofluorobenzene	124				%	70 - 130
<b>8015M - Gasoline</b>						
Gasoline	ND	1	50	15	ug/L	10/08/04 LZ
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
a,a,a-Trifluorotoluene	75				%	55 - 200

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



Order #: 562105

Client sample ID: TOC #063 Int.-2

Matrix: WATER

Date Sampled: 10/06/2004 Time Sampled: 10:15

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	ND	1	1	0.22	ug/L	10/09/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/09/04 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.18	ug/L	10/09/04 LB
Toluene	ND	1	5	0.32	ug/L	10/09/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/09/04 LB
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
Surr1 - Dibromofluoromethane	94				%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	114				%	70 - 130
Surr3 - Toluene-d8	96				%	70 - 130
Surr4 - p-Bromofluorobenzene	124				%	70 - 130
<b>8015M - Gasoline</b>						
Gasoline	ND	1	50	15	ug/L	10/08/04 LZ
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
a,a,a-Trifluorotoluene	78				%	55 - 200

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



Order #: 562106

Client Sample ID: TOC #063 Int.-3

Matrix: WATER

Date Sampled: 10/06/2004 Time Sampled: 10:20

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	ND	1	1	0.22	ug/L	10/09/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/09/04 LB
Methyl-tert-butylether (MTBE)	60	1	1	0.18	ug/L	10/09/04 LB
Toluene	ND	1	5	0.32	ug/L	10/09/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/09/04 LB
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
Surr1 - Dibromofluoromethane	95				%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	119				%	70 - 130
Surr3 - Toluene-d8	94				%	70 - 130
Surr4 - p-Bromofluorobenzene	120				%	70 - 130
<b>8015M - Gasoline</b>						
Gasoline	83	1	50	15	ug/L	10/08/04 LZ
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
a,a,a-Trifluorotoluene	78				%	55 - 200

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





Order #: 562107

Client Sample ID: TOC #063 Inlet

Matrix: WATER

Date Sampled: 10/06/2004 Time Sampled: 10:30

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	ND	1	1	0.22	ug/L	10/09/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/09/04 LB
Methyl-tert-butylether (MTBE)	20	1	1	0.18	ug/L	10/09/04 LB
Toluene	ND	1	5	0.32	ug/L	10/09/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/09/04 LB

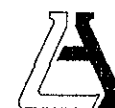
Surrogates		Units	Control Limits
Surr1 - Dibromofluoromethane	98	%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	109	%	70 - 130
Surr3 - Toluene-d8	98	%	70 - 130
Surr4 - p-Bromofluorobenzene	123	%	70 - 130

**8015M - Gasoline**

Gasoline	ND	1	50	15	ug/L	10/08/04 LZ
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Surrogates		Units	Control Limits
a,a,a-Trifluorotoluene	77	%	55 - 200

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



Order #: 562108

Client ID: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	ND	1	1	0.22	ug/L	10/08/04 LB
Ethyl benzene	ND	1	5	0.31	ug/L	10/08/04 LB
Methyl-tert-butylether (MTBE)	ND	1	1	0.18	ug/L	10/08/04 LB
Toluene	ND	1	5	0.32	ug/L	10/08/04 LB
Xylenes, total	ND	1	5	0.4	ug/L	10/08/04 LB

Surrogates		Units	Control Limits
Surr1 - Dibromofluoromethane	101	%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	120	%	70 - 130
Surr3 - Toluene-d8	98	%	70 - 130
Surr4 - p-Bromofluorobenzene	126	%	70 - 130

**8015M - Gasoline**

Gasoline	ND	1	50	15	ug/L	10/08/04 LZ
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Surrogates		Units	Control Limits
a,a,a-Trifluorotoluene	75	%	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**

QC Sample: LCS/LCSD  
 Matrix: WATER  
 Prep. Date: October 8, 2004  
 Analysis Date: October 8-9, 2004  
 ID#'s in Batch: LR 137883, 137911, 137903, 137900

**LAB CONTROLLED SPIKE / LAB CONTROLLED DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	494	478	99	96	3

ND = Not Detected

LCS Result = Lab Control Sample Result

%REC-LCS & LCSD = Percent Recovery of LCS Spike & LCS Spike Duplicate

RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

**SURROGATE RECOVERY**

Sample No.	AAA-TFT
QC Limit	55-200
Method Blank	75
LCS	137
LCSD	134

AAA-TFT = a,a,a-Trifluorotoluene

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

QC Sample: MS / MSD - Water Samples 137903-062  
 Analysis Date: October 7, 2004 5:01 AM  
 Applies to: LR 137903, 137911  
 Reporting Units = ug/L

**Matrix Spike / Matrix Spike Duplicate**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	55.83	58.30	112	117	4	22	59-172
MTBE	1.40	50	53.75	57.39	105	112	7	24	62-137
Benzene	ND	50	51.88	55.38	104	111	7	24	62-137
Trichloroethene	2.68	50	54.33	54.47	103	104	0	21	66-142
Toluene	ND	50	50.37	50.58	101	101	0	21	59-139
Chlorobenzene	ND	50	49.56	50.88	99	102	3	21	60-133

QC Sample: LCS/LCSD 11:57 AM  
 Analysis Date: October 8, 2004

**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	54.76	55.34	110	111	1	22	59-172
MTBE	ND	50	51.11	53.54	102	107	5	24	62-137
Benzene	ND	50	51.60	53.97	103	108	4	24	62-137
Trichloroethene	ND	50	50.50	51.90	101	104	3	21	66-142
Toluene	ND	50	51.41	51.06	103	102	1	21	59-139
Chlorobenzene	ND	50	50.30	50.10	101	100	0	21	60-133

Method Blank = All ND

**SURROGATE ( QC Limits : 70-135 )**

Compound	MB 1	MB 2	MS	MSD	LCS	LCSD
DBFM	100	101	116	109	112	107
1,2-DCA	123	120	100	113	87	115
Tol-d8	95	98	100	100	100	100
p-BFB	116	126	113	112	108	112

ASSOCIATED LABORATORIES  
**QA REPORT FORM - METHOD 8260 / 624 / 524.2**

QC Sample: MS / MSD - Water Samples 137911-104  
 Analysis Date: October 9, 2004 12:02 PM  
 Applies to: LR 137911, 137902  
 Reporting Units = ug/L

**Matrix Spike / Matrix Spike Duplicate**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spk Dup.	%Rec MS	%Rec MSD	RPD	QC Limits	
								RPD	%REC
1,1-Dichloroethene	ND	50	60.66	62.18	121	124	2	22	59-172
MTBE	ND	50	51.25	53.17	103	106	4	24	62-137
Benzene	ND	50	55.48	56.28	111	113	1	24	62-137
Trichloroethene	ND	50	60.11	65.66	120	131	9	21	66-142
Toluene	ND	50	48.16	50.60	96	101	5	21	59-139
Chlorobenzene	ND	50	45.60	48.85	91	98	7	21	60-133

QC Sample: LCS/LCSD 9:42 AM  
 Analysis Date: October 9, 2004

**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	37.57	35.75	75	72	5	22	59-172
MTBE	ND	50	54.31	47.24	109	94	14	24	62-137
Benzene	ND	50	56.62	49.34	113	99	14	24	62-137
Trichloroethene	ND	50	39.34	38.36	79	77	3	21	66-142
Toluene	ND	50	52.03	55.80	104	112	7	21	59-139
Chlorobenzene	ND	50	51.01	53.90	102	108	6	21	60-133

Method Blank = All ND

**SURROGATE ( QC Limits : 70-135 )**

Compound	MB 3	MB 4	MS	MSD	LCS	LCSD
DBFM	100	97	111	111	113	127
1,2-DCA	115	109	118	115	114	70
Tol-d8	107	98	99	99	100	104
p-BFB	122	120	109	114	110	112



**ASSOCIATED LABORATORIES**

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

**Cooler Receipt Form**

Client: Thwifty oil Project: TOC 063

Date Cooler Received: 10-7 Date Cooler Opened: 10-7

Was cooler scanned for presence of radioactivity? Yes/No  
If yes was radioactivity results above 25 cpm? 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  Ice Packs \_\_\_\_\_ Bubble wrap \_\_\_\_\_  
Styrofoam \_\_\_\_\_ Paper \_\_\_\_\_ None \_\_\_\_\_ Other \_\_\_\_\_

Cooler Temperature: 3.5°C \*

\*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? Yes/No/Na

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

Any other important information: \_\_\_\_\_

Receiving Department: [Signature] Date: 10-7



**Chain of Custody Record**

Company <b>THRIFTY OIL CO.</b>	Phone <b>(562) 921-3581</b>	A.L. Job No. <b>137911</b> ✓	Page _____ of _____
Project Manager <b>Msgr SURYAKUSUMA</b>	Fax <b>(562) 921-7510</b>	<b>Analysis Requested</b>	
Project Name <b>System water sample</b>	Project # <b>#063</b> ✓		
Site Name and Address <b>6125 TELEGRAPH AVE OAKLAND, 94609</b>		<b>Test Instructions &amp; Comments</b>	

Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH (8015M)	BTEX (8260B)	MTBE (8260B)
1		10-06-04	10:05	H <sub>2</sub> O	3-VOA	HCL	X	X	X
2		↓	10:10	↓	↓	↓	X	X	X
3		↓	10:16	↓	↓	↓	X	X	X
4		↓	10:20	↓	↓	↓	X	X	X
5		↓	10:30	↓	↓	↓	X	X	X
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

<b>Sample Receipt - To Be Filled By Laboratory</b>				Relinquished by Sampler: <b>EMC</b> <sup>1</sup>		Relinquished by <b>GOLDEN STATE</b> <sup>2</sup>		Relinquished by <sup>3</sup>	
Total Number of Containers	<b>5</b>	Properly Cooled	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N / <input type="checkbox"/> NA	Signature:	<i>[Signature]</i>	Signature:	<b>OVERNIGHT</b>	Signature:	
Custody Seals	Y / N / NA	Samples Intact	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N / <input type="checkbox"/> NA	Printed Name:	<b>SARBAT POPEW</b>	Printed Name:		Printed Name:	
Received in Good Condition	Y / N	Samples Accepted	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N	Date:	<b>10-06-04</b>	Time:	<b>17:00</b>	Date:	
<b>Turn Around Time</b>				Received By: <b>GOLDEN STATE</b> <sup>1</sup>		Received By: <sup>2</sup>		Received By: <sup>3</sup>	
<input checked="" type="checkbox"/> <b>Normal</b> <input type="checkbox"/> <b>Rush</b> <input type="checkbox"/> <b>Same Day</b> <input type="checkbox"/> <b>48 hrs.</b> <input type="checkbox"/> <b>24 hrs.</b> <input type="checkbox"/> <b>72 hrs.</b>				Signature:	<b>OVERNIGHT</b>	Signature:	<i>[Signature]</i>	Signature:	
				Printed Name:		Printed Name:	<b>mmw</b>	Printed Name:	
				Date:		Date:	<b>10-7</b>	Time:	<b>9:50</b>