THRIFTY OIL CO.

April 19, 2002

APR 25 2002

O.26738
Local #4057
RWQCB #01-1478
Global ID #T0600101365
Confirmation #9118991971

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

RE: **Former Thrifty Oil Co. Station #049**
ARCO Products Company Station #9535
3400 San Pablo Avenue
Oakland, CA 94612
1st Quarter 2002, Status Report and Amendment to the Remediation System

R004

Dear Ms. Hugo:

Presented herewith is the First Quarter 2002, Status Report for former Thrifty Oil Co. Station #049 located at 3400 San Pablo Avenue, Oakland, California.

Thrifty proposes to connect well MW-4 to the existing remediation system to enhance the reduction of petroleum hydrocarbons in the groundwater. Once approval is received from the ACHCS, Thrifty will complete the work.

If you have any questions or comments, please contact the undersigned in this report or myself at (562) 921-3581. x 390

Sincerely,

Chris Panaitescu
General Manager
Environmental Affairs

panaitescu @ thriftyoil . com

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

THRIFTY OIL CO.

APR 25 2002

April 18, 2002

Local #4057
RWQCB #01-1478
Global ID #T0600101365
Confirmation #5954623699

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

RE: **Former Thrifty Oil Co. Station #049**
3400 San Pablo Avenue
Oakland, CA 94612
1st Quarter 2002, Status Report

Dear Ms. Hugo:

Presented herein is the First Quarter 2002, Status Report prepared for former Thrifty Oil Co. (Thrifty) Station #049 located at 3400 San Pablo Avenue, Oakland, California (**Figure 1**). Presented in this report are the results of the site monitoring and remediation efforts conducted in the First Quarter 2002. Thrifty has retained the services of Earth Management Company (EMC) to conduct quarterly monitoring and sampling, and remediation system monitoring activities at this site.

Groundwater Monitoring

Depth to groundwater is measured in each monitoring well on a quarterly basis. In general, groundwater occurs beneath the station at depths ranging from 3.86 feet below surface grade (bsg) in monitoring well MW-6 to 8.45 feet bsg in monitoring well MW-2 (**Appendix A**). A groundwater elevation contour map based on the January 30, 2002 data is presented in **Figure 2**. Groundwater elevation data indicates that the flow direction is toward the southwest with a groundwater gradient of approximately 0.06 feet/foot. Recovery well RW-1 was not gauged or sampled because it is a pumping well.

Quarterly Groundwater Sampling

As part of the ongoing groundwater monitoring program, groundwater samples were obtained from monitoring wells MW-1 through MW-7 on January 30, 2002. Groundwater samples were obtained by EMC and delivered in a chilled state following strict Chain-of-Custody procedures to a state-certified laboratory and analyzed for total petroleum hydrocarbons (TPH-g) by EPA method 8015 modified for gasoline. Volatile aromatic compounds of benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert-butyl ether (MTBE) were analyzed by EPA method 8021B. MTBE confirmation was performed using EPA method 8260B. A summary of historical analytical sampling results are provided in **Table 1**. Copies of the EMC Field Status Reports are presented in **Appendix A**, and copies of the laboratory analytical reports are contained in **Appendix B**.

TPH-g, BTEX, and MTBE concentrations appear in **Table 1** and **Appendix B**. The TPH-g, benzene, and MTBE isoconcentration maps are presented in **Figures 3, 4,** and **5**, respectively. Laboratory results indicate the highest concentration of TPH-g, and MTBE were in monitoring well MW-4 (36,500 ug/L and

24,900 ug/L, respectively), and the highest benzene concentration was found in well MW-7 (40 ug/L).

Remediation Status

Site remedial activities were initiated in April 1991. Presently, the remediation system consists of a Groundwater Treatment System using activated carbon, with groundwater extraction from recovery well RW-1. System operational data is included in **Table 2** and **Appendix C**. During this reporting period, the groundwater treatment system processed 106,940 gallons of groundwater, and has treated approximately 1,104,658 gallons of groundwater since start up (April 1991) through March 2002. The groundwater system was shut down on January 11, 2002 for carbon change out and was restarted on January 21, 2002. The system operated throughout the first quarter, except for the carbon change out.

Inlet, intermediate 1, intermediate 2, intermediate 3, and outlet water samples were collected on January 30, 2002 from the treatment unit, and the samples collected by EMC were sent a state certified laboratory for analysis. The samples collected on January 30, 2002 were analyzed for TPH-g, BTEX, and MTBE by EPA methods 8015M and 8021B, respectively, and MTBE was confirmed by EPA method 8260B. All analyzed outlet samples were below the laboratory detection limits. Copies of the laboratory analytical reports are included in **Appendix D**.

Other Activities

With the high concentration of petroleum hydrocarbons in well MW-4, Thrifty proposes to connect well MW-4 to the existing remediation system to enhance the reduction of the petroleum hydrocarbons in the groundwater. Once approval is received from the ACHCS, Thrifty will complete this work.

The groundwater monitoring wells, and the treatment unit, will be monitored and sampled for the next quarter. All site monitoring/sampling data generated during the next quarter will be reported in the Second Quarter 2002 monitoring report.

All interpretations expressed in this report are based solely upon data collected be EMC, and Associated Laboratories.

Written by:

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

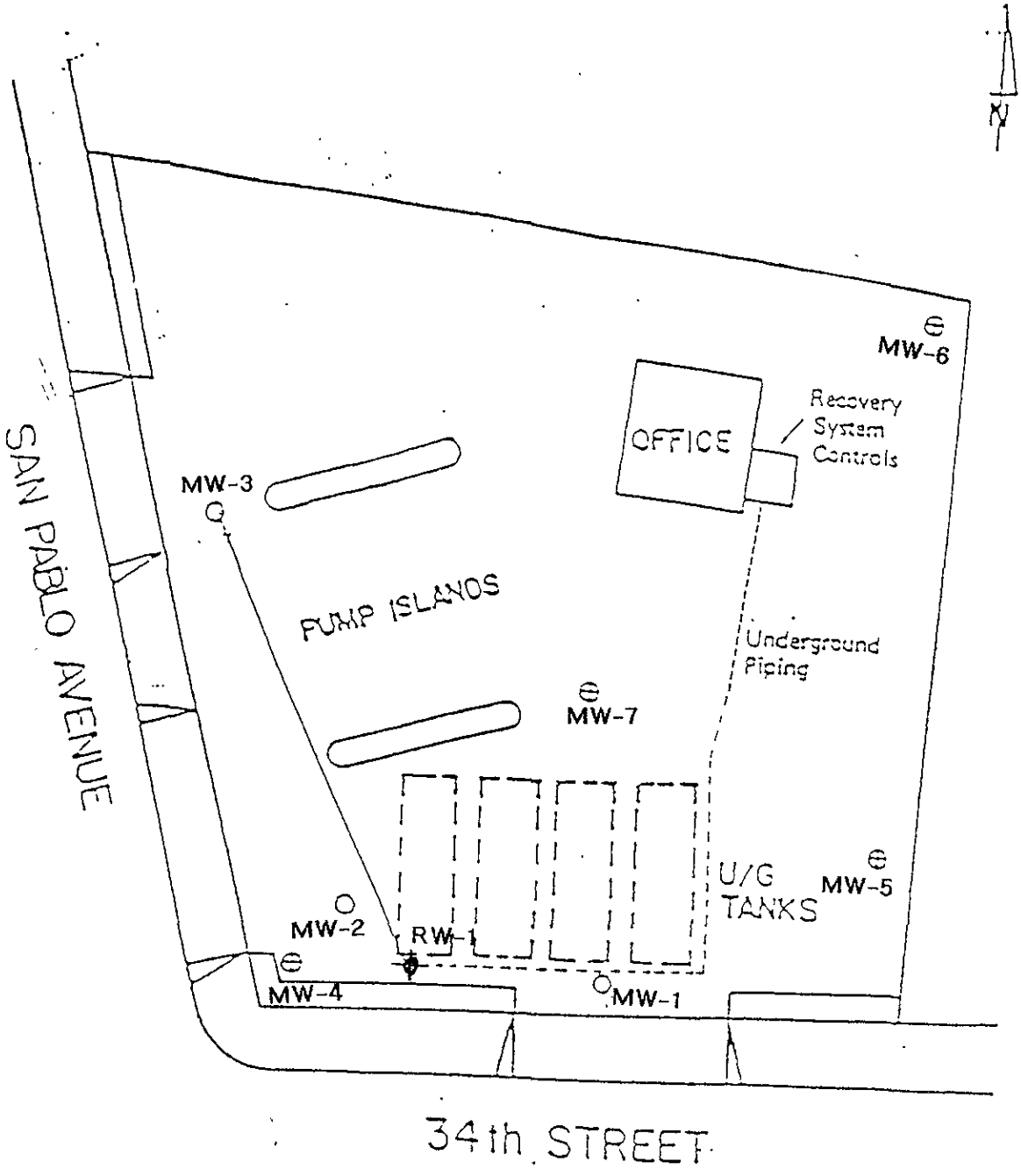
REGISTERED ENVIRONMENTAL ASSESSOR II
RAYMOND C. FRIEDRICHSEN
No. 2[illegible]027
Expires: 10/18/02
STATE OF CALIFORNIA

Reviewed by:

Ross A. Williams
Registered Geologist #6327

REGISTERED GEOLOGIST
ROSS A. WILLIAMS
No. 6327
STATE OF CALIFORNIA

FIGURES



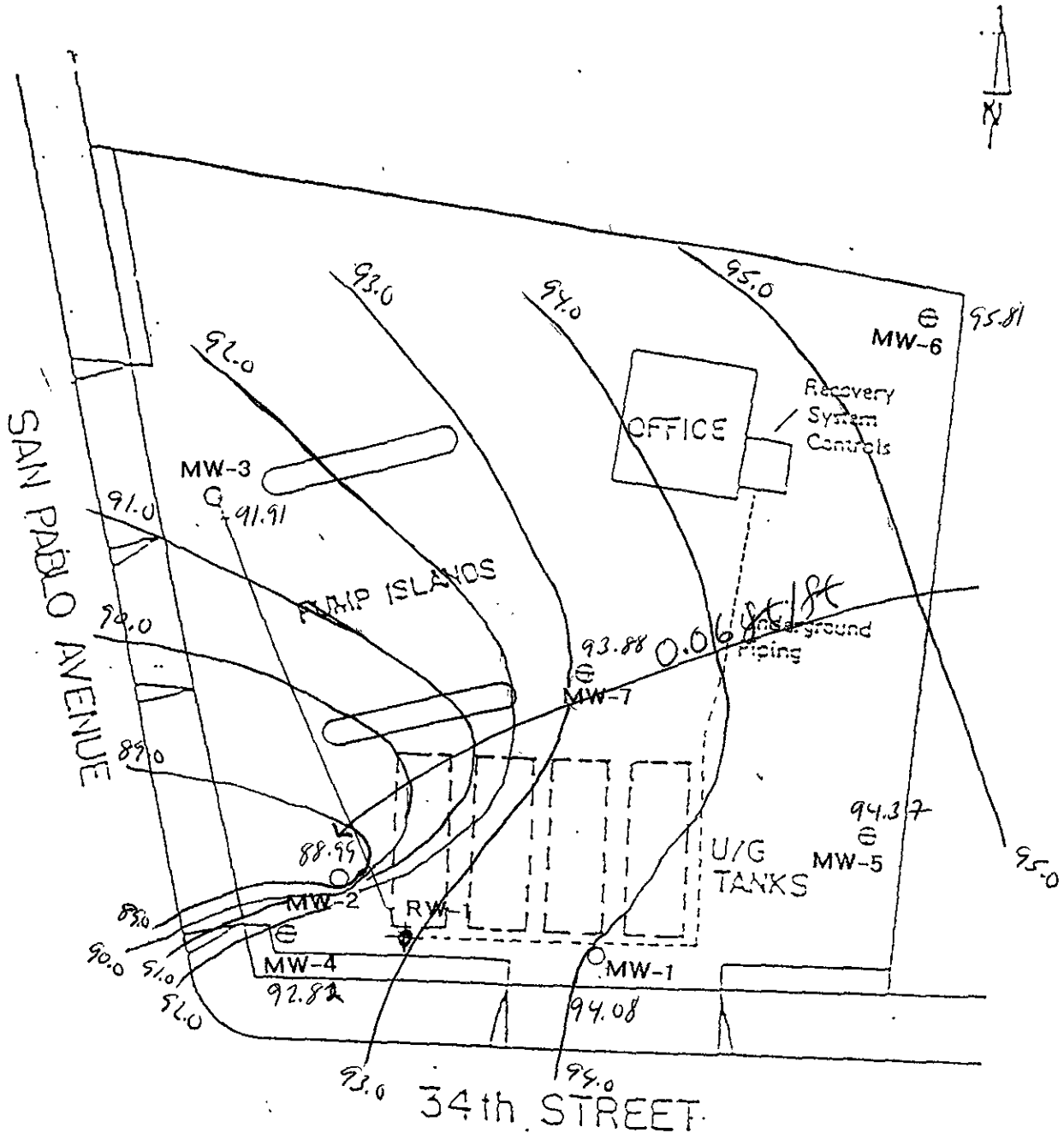
SITE PLAN AND RECOVERY SYSTEM LOCATION
THRIFTY SERVICE STATION NO. 49
3400 SAN PABLO AVE.
OAKLAND, CA

0 25
FEET

LEGEND

○ MW1 - GT MONITORING WELLS
⊕ MW-4 - WCC MONITORING WELLS
⊕ RW-1 - PROPOSED RECOVERY WELL

FIGURE 1



GROUNDWATER CONTOUR MAP
THRIFTY SERVICE STATION NO. 49
3400 SAN PABLO AVE.
OAKLAND, CA

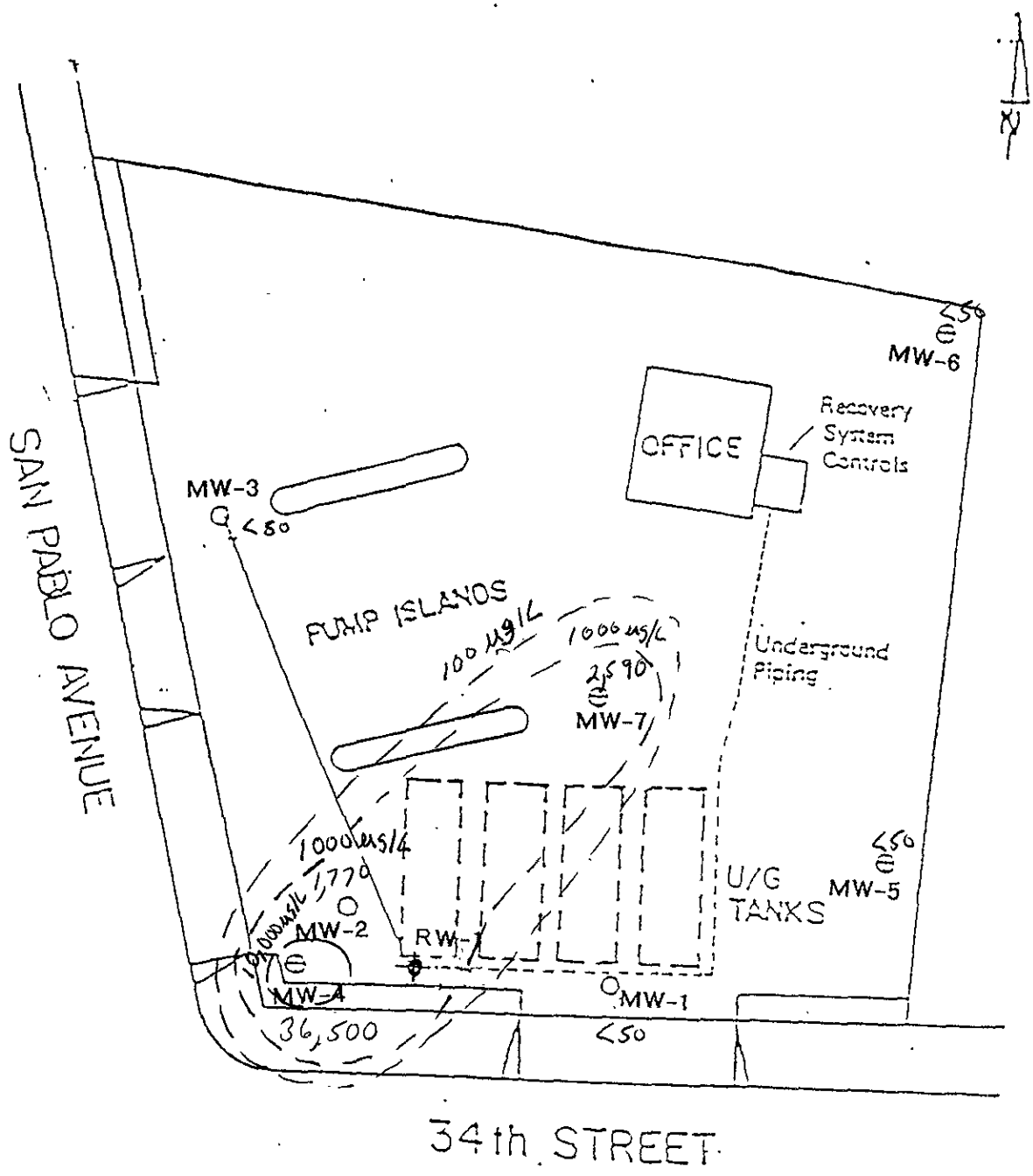
LEGEND

○ MW1 - GT MONITORING WELLS
⊖ MW-4 - WCC MONITORING WELLS
⊖ RW-1 - PROPOSED RECOVERY WELL

0 25
FEET

01/30/02

FIGURE 2



TPH ISOCONCENTRATION MAP ug/L
THRIFTY SERVICE STATION NO. 49
3400 SAN PABLO AVE.
OAKLAND, CA

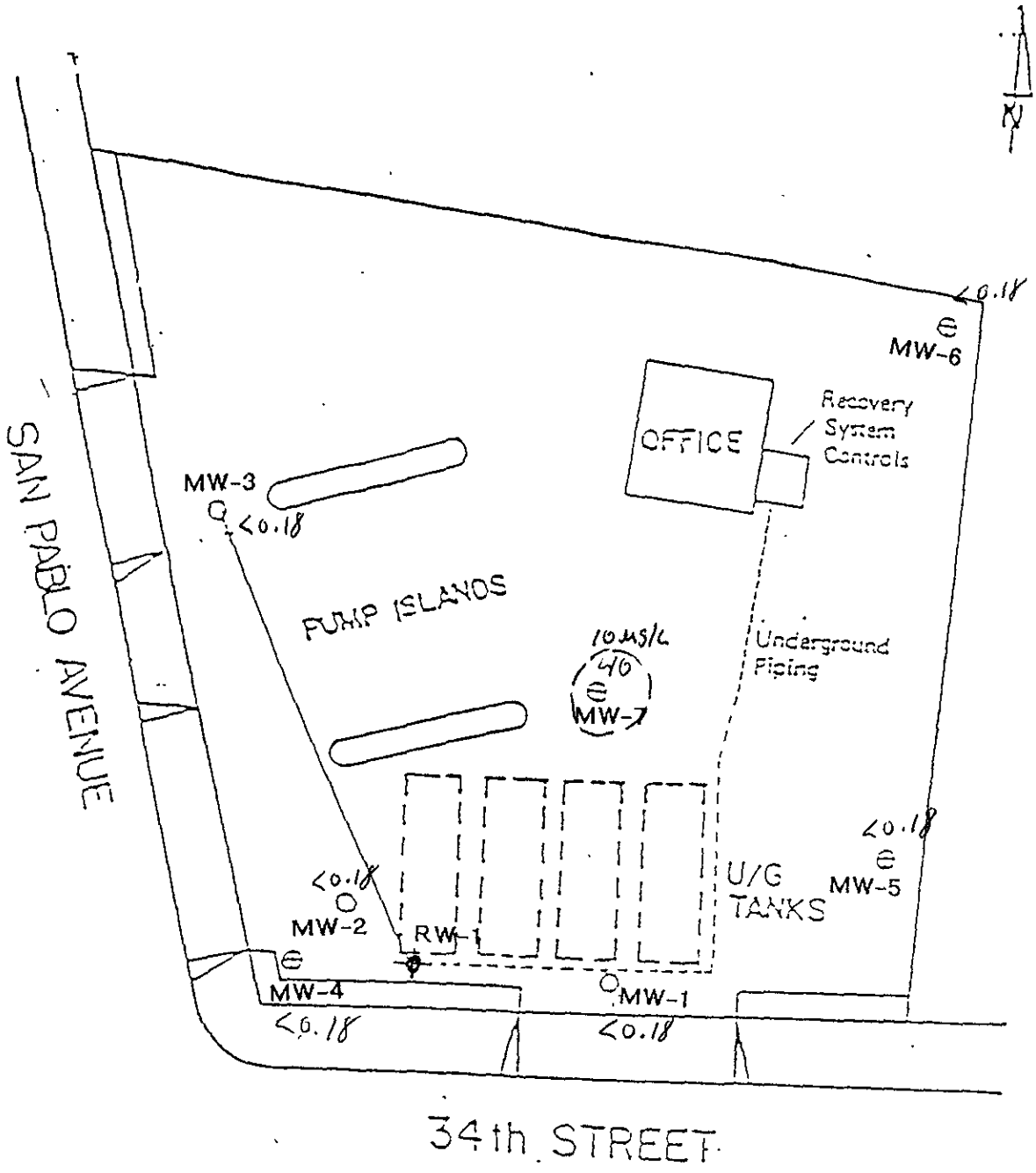
LEGEND

○ MW1 - GT MONITORING WELLS
⊖ MW-4 - WCC MONITORING WELLS
⊕ RW-1 - PROPOSED RECOVERY WELL

0 25
FEET

01/31/02

FIGURE 3



BENZENE ISOCONCENTRATION MAP ug/L
THRIFTY SERVICE STATION NO. 49
3400 SAN PABLO AVE.
OAKLAND, CA

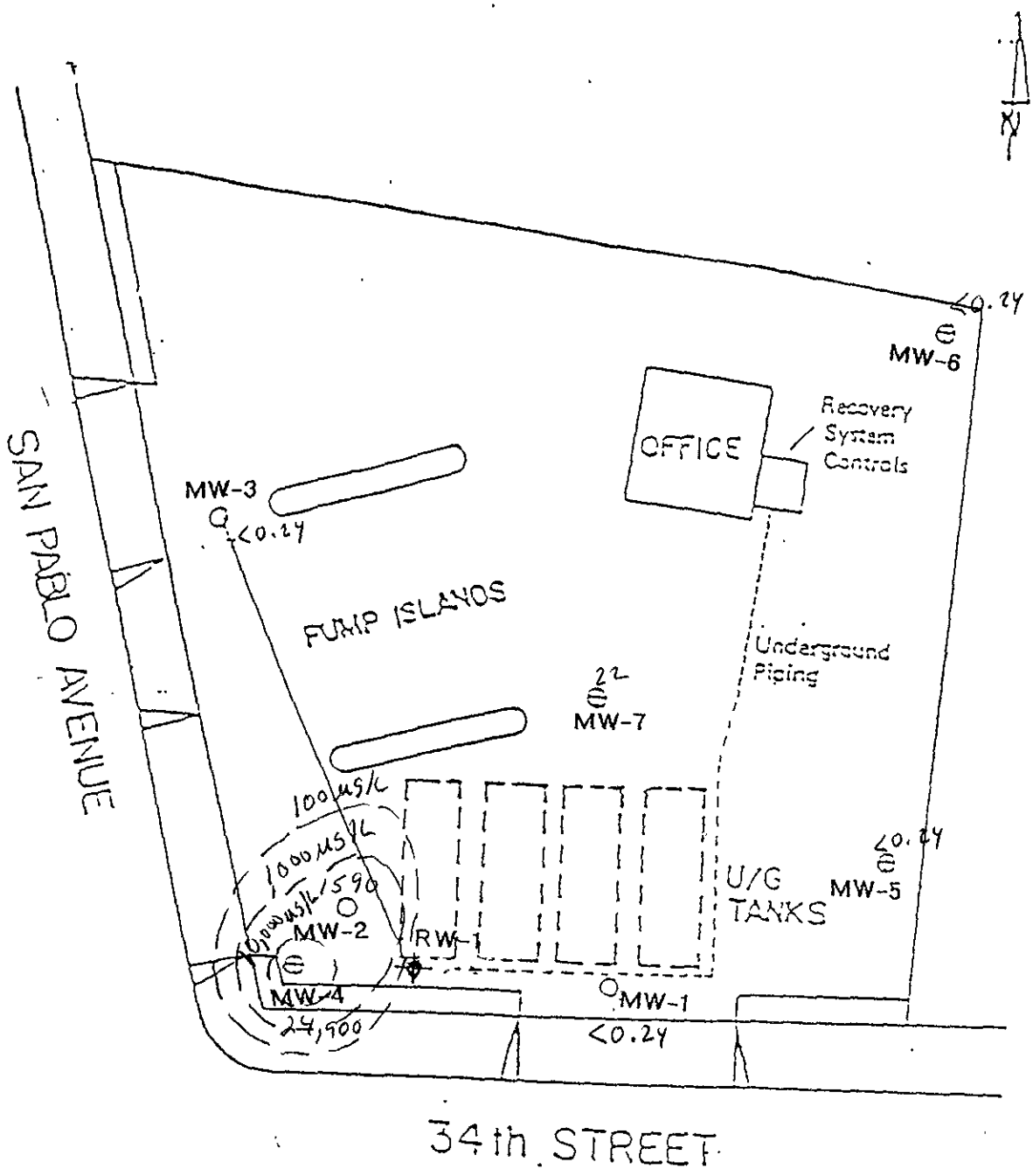
LEGEND

○ MW1 - GT MONITORING WELLS
⊖ MW-4 - WCC MONITORING WELLS
⊖ RW-1 - PROPOSED RECOVERY WELL

0 25
FEET

01/30/92

FIGURE 4



MTBE ISOCONCENTRATION MAP ug/L
THRIFTY SERVICE STATION NO. 49
3400 SAN PABLO AVE.
OAKLAND, CA

LEGEND

○ MW1 - GT MONITORING WELLS
⊖ MW-4 - WCC MONITORING WELLS
⊖ RW-1 - PROPOSED RECOVERY WELL

0 25
FEET

01/30/02

FIGURE 5

TABLES

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
MONITORING WELL #MW-1											
01/09/92	-	-	-	-	-	-	5.54	NP	0.00	98.03	92 49
04/13/92	-	-	-	-	-	-	5.86	NP	0.00	98.03	92.17
10/05/92	-	-	-	-	-	-	9.39	NP	0.00	98.03	88.64
01/06/93	-	-	-	-	-	-	4.76	NP	0.00	98.03	93 27
04/26/93	-	-	-	-	-	-	4.96	NP	0.00	98.03	93.07
01/04/94	-	-	-	-	-	-	7.00	NP	0 00	98.03	91.03
04/05/94	-	-	-	-	-	-	6.44	NP	0 00	98.03	91 59
10/09/95	44,000	4,500	4,300	1,700	10,000	-	-	-	-	98.03	-
01/08/96	21,000	1,200	150	34	4,800	-	6.15	NP	0.00	98.03	91.88
04/08/96	4,700	80	110	10	910	-	5.40	NP	0.00	98.03	92.63
07/22/96	7,000	280	130	<3	2,100	440	5.50	NP	0.00	98.03	92 53
10/16/96	120	<0.3	<0.3	<0.3	<0.5	180	6.02	NP	0.00	98.03	92 01
01/22/97	160	<0.3	<0.3	<0.3	<0.5	360	4.40	NP	0.00	98.03	93.63
04/21/97	20,000	420	140	5.8	840	55,000	6.30	NP	0.00	98.03	91.73
07/14/97	13,000	<0.3	<0.3	<0.3	<0.55	30,000	5.92	NP	0.00	98.03	92.11
10/07/97	-	-	-	-	-	-	7.71	7.70	0.01	98.03	90 33
01/15/98	<50	0.3	<0.3	<0.3	<0.5	-	4.40	NP	0.00	98.03	93.63
04/23/98	540	<0.3	<0.3	<0.3	<0.5	<20	8.10	NP	0 00	98.03	*89.93*
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5	5.55	NP	0.00	98.03	92.48
10/14/98	50	1.4	0.56	<0.3	11	22	7.05	NP	0.00	98 03	90.98
01/21/99	<50	0.59	<0 3	<0.3	<0.5	<5	4.10	NP	0.00	98.03	93 93
04/15/99	<50	<0.3	<0.3	<0.3	<0.5	<5	4.30	NP	0.00	98.03	93 73
07/26/99	<50	<0.3	<0.3	<0.3	<0.5	<5	5.54	NP	0.00	98.03	92.49
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5	6 13	NP	0.00	98.03	91.90
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5	6 04	NP	0.00	98.03	91.99
04/05/00	<50	<0.25	<0.25	<0.25	<0.5	<5	4 03	NP	0.00	98.03	94.00
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5	4.00	NP	0.00	98.03	94 03
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	5.53	NP	0.00	98.03	92 50
01/17/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.97	NP	0.00	98.03	94.06
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.98	NP	0.00	98.03	94.05
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	5.51	NP	0.00	98.03	92.52
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.97	NP	0.00	98.03	94.06
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.95	NP	0.00	98.03	94.08

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
MONITORING WELL #MW-2											
01/09/92	-	-	-	-	-	-	5.35	NP	0.00	97.44	92.09
04/13/92	-	-	-	-	-	-	7.42	NP	0.00	97.44	90.02
10/05/92	-	-	-	-	-	-	12.15	NP	0.00	97.44	85.29
01/06/93	-	-	-	-	-	-	5.46	NP	0.00	97.44	91.98
04/26/93	-	-	-	-	-	-	5.15	NP	0.00	97.44	92.29
01/04/94	-	-	-	-	-	-	9.45	NP	0.00	97.44	87.99
04/05/94	-	-	-	-	-	-	8.23	NP	0.00	97.44	89.21
10/09/95	33,000	6,000	390	1,700	4,900	-	-	-	-	97.44	-
01/08/96	<50	0.32	<0.3	0.41	2.1	-	5.60	NP	0.00	97.44	91.84
04/08/96	10,000	490	210	210	830	-	5.43	NP	0.00	97.44	92.01
07/22/96	60,000	6,500	1,000	1,500	10,000	8,500	5.65	NP	0.00	97.44	91.79
10/16/96	6,500	12	0.34	0.72	110	4,700	5.82	NP	0.00	97.44	91.62
01/22/97	3,200	<0.3	0.46	0.37	<0.5	8,000	4.30	NP	0.00	97.44	93.14
04/21/97	66,000	5,300	1,000	2,300	14,000	30,000	5.80	NP	0.00	97.44	91.64
07/14/97	17,000	1.8	4.6	4.6	350	24,000	8.92	NP	0.00	97.44	88.52
10/07/97	220,000	5,200	1,700	3,800	15,000	-	6.80	NP	0.00	97.44	90.64
01/19/98	25,000	5.4	2.2	2.1	240	-	8.50	NP	0.00	97.44	88.94
04/23/98	7,700	<0.3	0.55	0.38	4.9	28,000	7.60	NP	0.00	97.44	89.84
07/20/98	430,000	4,200	10,000	5,400	28,000	77,000	6.94	NP	0.00	97.44	90.50
1014/98	27,000	<0.3	4.5	4.1	4.6	65,000	8 45	NP	0.00	97.44	88.99
01/21/99	16,000	7.6	9.8	4.2	310	* 49,000 / 42,000	6.95	NP	0.00	97.44	90.49
04/15/99	20,000	<0.3	<0.3	<0.3	<0.5	* 31,000 / 30,000	8.45	NP	0.00	97.44	88 99
07/26/99	6,700	<6	<6	<6	<10	*11,000 / 15,000	6.94	NP	0.00	97.44	90.50
10/13/99	7,600	<3	3.7	<3	11	11,000	5.48	NP	0.00	97.44	91.96
01/20/00	7,500	<6	<6	<6	<10	*14,000 / 16,000	5.84	NP	0.00	97.44	91.60
04/05/00	10,400	<0.25	<0.25	<0.25	<0.5	*10,000 / 14,400	5.41	NP	0.00	97.44	92.03
07/19/00	130	<0.3	<0.3	<0.3	<0.6	*9,620 / 6,520	5.40	NP	0.00	97.44	92.04
10/18/00	150	<0.18	<0 14	<0.18	<0.26	*9,090 / 6,560	6.91	NP	0.00	97.44	90.53
01/17/01	75	<0.18	2	2	3	*8,650 / 9,710	5.41	NP	0.00	97.44	92.03
04/19/01	4,380	<0.18	<0 14	<0.18	<0.26	8,890	5.40	NP	0.00	97.44	92.04
07/18/01	3,260	<0.18	<0.14	<0.18	2	*7960 / 1,710	6.92	NP	0.00	97.44	90 52
10/10/01	1,760	<0.18	<0.14	<0.18	<0 26	*2,980 / 2,600	3.87	NP	0.00	97.44	93.57
01/30/02	1,770	<0.18	1	1	2	*2,560 / 1,590	8.45	NP	0.00	97.44	88.99

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
MONITORING WELL #MW-3											
01/09/92	-	-	-	-	-	-	17 60	NP	0.00	97.69	80.09
04/13/92	-	-	-	-	-	-	17.40	NP	0.00	97.69	80 29
10/05/92	-	-	-	-	-	-	17.35	NP	0.00	97.69	80.34
01/06/93	-	-	-	-	-	-	17.40	NP	0.00	97.69	80 29
04/26/93	-	-	-	-	-	-	17.90	NP	0.00	97.69	79.79
01/04/94	-	-	-	-	-	-	17.60	NP	0.00	97.69	80.09
04/05/94	-	-	-	-	-	-	16.25	NP	0.00	97.69	81.44
01/08/96	-	-	-	-	-	-	7.11	NP	0.00	97.69	90.58
04/08/96	8,800	610	31	530	900	-	7.20	NP	0 00	97.69	90 49
07/22/96	38,000	4,100	1,500	1,600	5,400	2,600	6.82	NP	0.00	97.69	90.87
10/16/96	2,400	<0.3	<0.3	<0.3	<0.5	3,800	6.84	NP	0.00	97.69	90.85
01/22/97	2,200	<0.3	<0.3	<0.3	<0.5	5,500	4 80	NP	0.00	97 69	92.89
04/21/97	15,000	1,500	36	260	710	11,000	9.40	NP	0.00	97.69	88.29
07/14/97	5,400	0.45	<0.3	<0.3	<0.5	14,000	10.92	NP	0.00	97.69	86 77
10/07/97	8,800	0.39	<0.3	<0.3	0.88	-	11.95	NP	0.00	97.69	85.74
01/19/98	22,000	1,300	15	20	310	-	7.85	NP	0.00	97.69	89.84
04/23/98	9,200	3.9	3.1	5 7	9.8	16,000	11.20	NP	0.00	97.69	86.49
07/20/98	750	0.41	1.4	0.47	1.8	2,800	7.36	NP	0.00	97.69	90.33
10/14/98	750	<0.3	<0.3	<0.3	<0.5	15,000	11.95	NP	0.00	97.69	85.74
01/21/99	4,700	0.32	<0.3	<0.3	<0.5	* 12,000 / 16,000	10.45	NP	0.00	97.69	87.24
04/15/99	7,900	0 59	0.69	<0.3	0.94	* 11,000 / 14,000	7.86	NP	0.00	97.69	89.83
07/26/99	5,200	<3	<3	<3	<5	*9,600 / 11,000	10.40	NP	0.00	97.69	87.29
10/13/99	<50	<0.3	<0.3	<0.3	<0.5	<5	7.09	NP	0.00	97.69	90.60
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5	6.86	NP	0.00	97.69	90 83
04/05/00	<50	0.8	<0.25	<0.25	<0.5	*5.6 / <5	8.85	NP	0.00	97.69	88.84
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5	8.86	NP	0.00	97.69	88.83
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	7.32	NP	0.00	97.69	90 37
01/17/01	<50	<0.18	2	<0.18	1	*39 / 39	5.40	NP	0.00	97.69	92 29
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	8.87	NP	0.00	97.69	88.82
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	7.32	NP	0.00	97.69	90.37
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	8.87	NP	0.00	97.69	88 82
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	5.78	NP	0.00	97.69	91.91

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
MONITORING WELL #MW-4											
01/09/92	-	-	-	-	-	-	5.25	NP	0.00	97.33	92.08
04/13/92	-	-	-	-	-	-	6.40	NP	0.00	97.33	90.93
10/05/92	-	-	-	-	-	-	9.95	NP	0.00	97.33	87.38
01/06/93	-	-	-	-	-	-	4.10	NP	0.00	97 33	93.23
04/26/93	-	-	-	-	-	-	4.84	NP	0.00	97.33	92 49
01/04/94	-	-	-	-	-	-	9.05	NP	0.00	97.33	88.28
04/05/94	-	-	-	-	-	-	8.10	NP	0.00	97 33	89.23
10/09/95	63,000	9,000	2,100	2,500	9,600	-	-	-	-	97.33	-
01/08/96	23,000	2,200	830	880	3,600	-	5.57	NP	0.00	97.33	91.76
04/08/96	56,000	5,000	2,500	2,600	11,000	-	5.36	NP	0.00	97.33	91.97
07/22/96	33,000	3,700	1,600	1,400	6,000	2,400	4.80	NP	0.00	97.33	92.53
10/16/96	2,800	7.8	0.60	0.41	52	2,000	5.47	NP	0.00	97.33	91 86
01/22/97	1,400	<0.3	<0 3	<0 3	<0.5	3,100	5.15	NP	0.00	97.33	92.18
04/21/97	-	-	-	-	-	-	6.36	5.30	1.06	97.33	91.77
07/14/97	-	-	-	-	-	-	5 24	5.21	0.03	97.33	92 11
10/07/97	-	-	-	-	-	-	7.82	7.80	0.02	97.33	89.53
01/15/98	-	-	-	-	-	-	6.68	6.60	0.08	97.33	90.71
04/23/98	-	-	-	-	-	-	6.36	5.30	1.06	97.33	91.77
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5	6.05	NP	0.00	97.33	91.28
10/14/98	3,100	86	23	2.0	520	1,100	6.85	NP	0.00	97.33	90.48
01/21/99	9,100	3.2	5.6	1.8	130	* 24,000 / 17,000	6.10	NP	0.00	97.33	91.23
04/15/99	14,000	<0.3	0 71	<0.3	<0.5	* 20,000 / 22,000	6.05	NP	0.00	97.33	91.28
07/26/99	4,500	<6	<6	<6	<10	*8,700 / 9,800	6.07	NP	0.00	97.33	91 26
10/13/99	410	<0.3	0.63	<0.3	<0.5	660	5.54	NP	0.00	97.33	91 79
01/20/00	770	<0.3	<0.3	<0.3	<0.5	*2,400 / 1,900	5.49	NP	0.00	97.33	91.84
04/05/00	61,200	0.9	<0.25	<0.25	<0.5	*18,500 / 21,900	5.30	NP	0.00	97.33	92.03
07/19/00	96,600	1,770	1,760	2,690	8,730	21,900 / 9,740 J	5.29	NP	0.00	97.33	92.04
10/18/00	34,900	698	1,010	607	4,130	*27,800 / 15,900	6.02	NP	0.00	97.33	91.31
01/17/01	29,100	799	930	614	3,400	*24,300 / 31,400	4.88	NP	0.00	97.33	92.45
04/19/01	103,000	4,880	3,980	3,260	11,800	66,900	4.89	NP	0.00	97.33	92.44
07/18/01	52,200	3,320	2,090	440	5,520	*55,500 / 16,800	6 04	NP	0.00	97.33	91.29
10/10/01	8,580	6.1	14	5.3	70	*40,100 / 30,000	4 51	NP	0.00	97.33	92.82
01/30/02	36,500	<0.18	3	1	3	*43,000 / 24,900	4.51	NP	0.00	97.33	92.82

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
MONITORING WELL #MW-5											
01/09/92	-	-	-	-	-	-	5.32	NP	0.00	98.85	93.53
04/13/92	-	-	-	-	-	-	4.82	NP	0.00	98.85	94.03
10/0/92	-	-	-	-	-	-	8.78	NP	0.00	98.85	90 07
01/06/93	-	-	-	-	-	-	3.46	NP	0.00	98.85	95.39
04/26/93	-	-	-	-	-	-	4.66	NP	0.00	98.85	94.19
01/04/94	-	-	-	-	-	-	6.36	NP	0.00	98.85	92 49
04/05/94	-	-	-	-	-	-	5.94	NP	0.00	98.85	92.91
07/12/95	<100	<0.5	<0.5	<0.5	<1	-	-	-	-	98.85	-
10/09/95	440	31	11	19	84	-	-	-	-	98.85	-
01/08/96	<50	<0.3	<0.3	<0.3	<0 5	-	6 63	NP	0 00	98.85	92.22
04/08/96	<50	<0.3	<0.3	<0.3	<0.5	-	5.22	NP	0.00	98.85	93.63
07/22/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.62	NP	0.00	98.85	92 23
10/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	6.12	NP	0.00	98.85	92.73
01/22/97	<50	<0.3	<0.3	<0.3	<0.5	<20	5.17	NP	0 00	98.85	93.68
04/21/97	73	2.5	0.34	0.74	3.8	21	6.64	NP	0.00	98.85	92 21
07/14/97	<50	<0.3	<0.3	<0.3	<0.5	<20	6.67	NP	0.00	98.85	92.18
10/07/97	130	<0.3	<0.3	<0.3	<0.5	-	8.20	NP	0.00	98.85	90.65
01/19/98	85	<0.3	<0.3	<0 3	<0.5	-	1.55	NP	0.00	98.85	97 30
04/23/98	220	0.39	<0.3	<0.3	<0.5	350	8.10	NP	0.00	98.85	90 75
07/20/98	<50	<0.3	<0.3	<0.3	<0.5	<5	6.30	NP	0.00	98.85	92.55
10/14/98	<50	<0.3	<0.3	<0.3	<0.5	<5	7.65	NP	0.00	98.85	91.20
01/21/99	<50	<0.3	<0.3	<0.3	<0.5	*6.7 / <5	6.15	NP	0.00	98.85	92 70
04/15/99	<50	<0.3	<0.3	<0.3	<0 5	<5	1.60	NP	0.00	98.85	97 25
07/26/99	<50	<0 3	<0.3	<0.3	<0.5	<5	6.13	NP	0.00	98.85	92.72
10/13/99	<50	<0.3	<0.3	<0.3	<0 5	<5	6.61	NP	0.00	98.85	92.24
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	<5	6 14	NP	0.00	98.85	92.71
04/05/00	*<50*	*0.5*	*<0.25*	*<0.25*	*<0.5*	**5.4 / <5*	*4.58*	*NP*	*0.00*	*98.85*	*94.27*
07/19/00	<50	<0.3	<0.3	<0.3	<0.6	<5	4.59	NP	0.00	98.85	94.26
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	6.28	NP	0.00	98.85	92.57
01/17/01	<50	<0.18	<0.14	<0.18	1	*5 / 4.8	4.58	NP	0.00	98.85	94.27
04/19/01	<50	<0.18	<0.14	<0 18	<0.26	<0.24	4.58	NP	0.00	98.85	94.27
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	6.12	NP	0.00	98.85	92.73
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.58	NP	0.00	98.85	94 27
01/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.48	NP	0.00	98.85	94 37

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER	DEPTH TO PRODUCT	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)	(feet)	(feet)	(feet)	(feet)	(feet)
MONITORING WELL #MW-6											
01/09/92	-	-	-	-	-	-	6.30	NP	0.00	99.67	93.37
04/13/92	-	-	-	-	-	-	5.47	NP	0.00	99.67	94.20
10/05/92	-	-	-	-	-	-	9 85	NP	0.00	99.67	89.82
01/06/93	-	-	-	-	-	-	4.16	NP	0.00	99.67	95.51
04/26/93	-	-	-	-	-	-	5.75	NP	0.00	99.67	93.92
01/14/94	-	-	-	-	-	-	7.20	NP	0.00	99.67	92 47
04/05/94	-	-	-	-	-	-	6.76	NP	0.00	99.67	92.91
07/10/95	<100	<0.5	0.9	<0.5	1.1	-	-	-	-	99.67	-
10/09/95	250	4.8	5.6	11	58	-	-	-	-	99.67	-
01/08/96	<50	<0.3	<0.3	<0.3	<0.5	-	6.16	NP	0.00	99.67	93.51
04/08/96	230	4.6	4.7	3.2	33	-	4.60	NP	0.00	99.67	95.07
07/22/96	<50	<0.3	<0.3	<0.3	<0.5	<20	7.30	NP	0.00	99 67	92 37
10/16/96	<50	<0.3	<0.3	<0.3	<0.5	<20	5.82	NP	0.00	99.67	93.85
01/22/97	<50	<0 3	<0.3	<0.3	<0.5	<20	4.40	NP	0.00	99.67	95.27
04/21/97	130	<0.3	<0.3	<0.3	<0.5	<20	7.10	NP	0.00	99.67	92 57
07/14/97	<50	<0.3	<0 3	<0.3	0.70	<20	7.35	NP	0.00	99.67	92.32
10/07/97	<50	0.78	0.3	<0.3	<0.5	-	6.98	NP	0.00	99.67	92.69
01/23/98	<50	<0.3	<0.3	<0.3	<0.5	-	2.35	NP	0.00	99.67	97.32
04/23/98	<50	<0.3	<0.3	<0.3	<0.5	<20	6.90	NP	0.00	99.67	92.77
07/20/98	<50	<0.3	1.1	<0 3	1.4	<5	5.45	NP	0.00	99.67	94.22
10/14/98	<50	<0.3	<0.3	<0.3	<0 5	<5	4.95	NP	0.00	99.67	94.72
01/21/99	<50	0.35	0.62	<0.3	<0.5	<5	3.90	NP	0.00	99.67	95.77
04/15/99	<50	<0 3	<0.3	<0.3	<0.5	<5	2.35	NP	0.00	99.67	97.32
07/26/99	1,000	<0 3	<0.3	<0.3	<0.5	*2,300 / 3,900	3.93	NP	0.00	99.67	95 74
10/13/99	<50	<0 3	<0.3	<0.3	<0.5	<5	6.15	NP	0.00	99.67	93.52
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	*42 / 41	5.84	NP	0.00	99.67	93.83
04/05/00	4,600	338	2.8	1.2	55.2	*282 / 230	3.89	NP	0.00	99.67	95.78
07/19/00	60	1	2	<0.3	<0.6	*87 / 76	3.07	NP	0.00	99.67	96.60
10/18/00	-	-	-	-	-	-	-	-	-	99.67	-
01/17/01	103	<0.18	2	<0.18	3	*78 / 106	3.87	NP	0.00	99.67	95.80
04/19/01	<50	<0 18	<0.14	<0.18	<0.26	<0.24	3.86	NP	0.00	99.67	95.81
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	<0 24	5.40	NP	0.00	99.67	94.27
10/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.86	NP	0.00	99.67	95.81
01/30/02	<50	<0.18	<0 14	<0.18	<0.26	<0.24	3.86	NP	0.00	99.67	95 81

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER (feet)	DEPTH TO PRODUCT (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
MONITORING WELL #MW-7											
01/09/92	-	-	-	-	-	-	6.30	NP	0.00	99.02	92.72
04/13/92	-	-	-	-	-	-	6.68	NP	0.00	99.02	92.34
10/05/92	-	-	-	-	-	-	9.60	NP	0.00	99.02	89 42
01/06/93	-	-	-	-	-	-	13.90	NP	0.00	99.02	85.12
04/26/93	-	-	-	-	-	-	5.55	NP	0.00	99.02	93.47
01/04/94	-	-	-	-	-	-	7.58	NP	0.00	99.02	91 44
04/05/94	-	-	-	-	-	-	6.66	NP	0.00	99.02	92.36
10/09/95	27,000	2,400	140	1,700	2,700	-	-	-	-	99.02	-
01/08/96	13,000	800	42	540	860	-	6.94	NP	0.00	99.02	92 08
04/08/94	9,100	840	31	690	1,200	-	5.48	NP	0.00	99.02	93.54
07/22/96	11,000	1,700	22	660	700	840	6.60	NP	0.00	99.02	92.42
10/16/96	180	<0.3	<0.3	<0.3	<0 5	270	6.42	NP	0 00	99.02	92.60
01/22/97	130	<0.3	<0.3	<0.3	<0.5	470	5.70	NP	0.00	99.02	93.32
04/21/97	10,000	1,400	27	820	490	1,100	5.30	NP	0.00	99.02	93.72
07/14/97	8,200	660	15	230	270	560	7.90	NP	0.00	99.02	91.12
10/07/97	7,700	480	15	8.4	350	-	7.70	NP	0.00	99.02	91.32
01/19/98	1,400	20	0.74	0.46	4.4	-	6.05	NP	0.00	99.02	92.97
04/23/98	590	<0.3	<0.3	<0.3	<0.5	1,700	7.60	NP	0.00	99.02	91.42
07/20/98	4,900	570	150	300	500	1,500	5.30	NP	0.00	99.02	93.72
10/14/98	1,100	1.0	<0.3	<0.3	5.3	2,000	8.60	NP	0.00	99.02	90 42
01/21/99	570	0.32	<0 3	<0.3	<0.5	* 1,500 / 1,700	6.70	NP	0.00	99.02	92.32
04/15/99	770	<0.3	<0.3	<0.3	<0.5	* 1,400 / 1,200	6.07	NP	0.00	99.02	92.95
07/26/99	500	<0.3	<0.3	<0.3	<0.5	*710 / 950	7.86	NP	0.00	99.02	91.16
10/13/99	<50	<0.3	0.44	<0.3	0.62	<5	6.93	NP	0.00	99.02	92.09
01/20/00	<50	<0.3	<0.3	<0.3	<0.5	*5 / <5	6.44	NP	0.00	99.02	92 58
04/05/00	5,670	415	19	1.7	60.1	*329 / 194	7.86	NP	0.00	99.02	91 16
07/19/00	1,350	14	<3	<3	10	*237 / 120	7.10	NP	0.00	99.02	91.92
10/18/00	<50	<0.18	<0.14	<0.18	<0.26	*63 / 41.1	5.28	NP	0.00	99.02	93.74
01/17/01	<50	<0.18	<0.14	<0.18	3	*57 / 81	5.27	NP	0.00	99.02	93.75
04/19/01	<50	<0.18	<0.14	<0.18	<0.26	66	7.86	NP	0.00	99.02	91.16
07/18/01	<50	<0.18	<0.14	<0.18	<0.26	*9 / 3.5	6.30	NP	0.00	99.02	92 72
10/10/01	<50	<0 18	<0.14	<0.18	<0.26	*9.4 / 7.9	8.23	NP	0.00	99.02	90.79
01/30/02	2,590	40	9	8	6	*45 / 22	5.14	NP	0 00	99.02	93.88

TABLE 1
GROUNDWATER DATA
THRIFTY OIL STATION #049, OAKLAND, CA.

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO GROUNDWATER	DEPTH TO PRODUCT	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)	(feet)	(feet)	(feet)	(feet)	(feet)
MONITORING WELL #RW-1											
01/09/92	-	-	-	-	-	-	14.00	NP	0.00	-	-
04/13/92	-	-	-	-	-	-	14.00	NP	0.00	-	-
10/05/92	-	-	-	-	-	-	15.05	NP	0.00	-	-
01/06/93	-	-	-	-	-	-	5.43	NP	0.00	-	-
04/26/93	-	-	-	-	-	-	13.20	NP	0.00	-	-
0104/94	-	-	-	-	-	-	14.30	NP	0.00	-	-
04/05/94	-	-	-	-	-	-	14.13	NP	0 00	-	-
01/08/96	-	-	-	-	-	-	14.22	NP	0.00	-	-
04/08/96	-	-	-	-	-	-	14.33	NP	0.00	-	-
07/22/96	8,100	530	84	120	860	-	14.27	NP	0.00	-	-
10/16/96	-	-	-	-	-	-	13.10	NP	0.00	-	-
01/22/97	-	-	-	-	-	-	16.97	NP	0.00	-	-
10/07/97	-	-	-	-	-	-	14.20	NP	0.00	-	-
01/15/98	-	-	-	-	-	-	15.60	NP	0.00	-	-
04/23/98	81,000	0.72	1.4	3.2	5.7	270,000	14.20	NP	0.00	-	-
07/20/98	-	-	-	-	-	-	14.30	NP	0.00	-	-
10/14/98	-	-	-	-	-	-	11.20	NP	0.00	-	-
01/21/99	-	-	-	-	-	-	-	-	-	-	-
04/15/99	-	-	-	-	-	-	13.10	NP	0.00	-	-
07/26/99	4,400	<3	<3	<3	<5	*6,800 / 9,000	13.83	NP	0.00	-	-
10/13/99	-	-	-	-	-	-	-	-	-	-	-
01/20/00	-	-	-	-	-	-	13.22	NP	0.00	-	-
04/05/00	-	-	-	-	-	-	-	-	-	-	-
07/19/00	-	-	-	-	-	-	13.25	NP	0.00	-	-
10/18/00	-	-	-	-	-	-	11.14	NP	0.00	-	-
01/17/01	-	-	-	-	-	-	11.12	NP	0.00	-	-
04/19/01	-	-	-	-	-	-	-	-	-	-	-
07/18/01	-	-	-	-	-	-	11.20	NP	0.00	-	-
10/10/01	-	-	-	-	-	-	11.20	NP	0.00	-	-
01/30/02	-	-	-	-	-	-	12.30	NP	0.00	-	-

NOTE:

* MTBE 8020 / 8260

ND = Nondetectable

NP = No free hydrocarbon product

" - " = Not analyzed / Not available

Benzene, toluene, ethlybenzene, and xylene analyzed by EPA method 8020

Total petroleum hydrocarbons (TPH) analyzed by EPA method 8015 modified for gasoline

Methyl-tert Butyl Ether (MTBE) analyzed by EPA method 8020 or 8260

TABLE 2

GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM

Thrifty Oil Co. Station No 049, OAKLAND, CA

				EFFLUENT (ug/L)						INFLUENT (ug/L)					
Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
4/8/91	1,310	0	-	-	<0.3	<0.3	<0.3	<0.9	-	-	910	2000	160	2000	-
4/15/91	1,434	124	18	-	<0.3	<0.3	<0.3	<0.3	-	-	2800	4600	310	5000	-
4/22/91	1,510	200	11	-	<15	<15	<15	<45	-	-	3100	3300	<15	2800	-
4/29/91	1,660	350	21	-	<0.3	<0.3	<0.3	<0.9	-	-	3600	4500	300	5000	-
5/6/91	1,740	430	11	-	<0.3	<0.3	<0.3	<0.9	-	-	3600	3500	300	3800	-
5/13/91	1,880	570	20	-	<0.3	<0.3	<0.3	<0.9	-	-	3300	3200	230	3900	-
5/20/91	2,010	700	19	-	<0.3	<0.3	<0.3	<0.9	-	-	3300	3400	260	5100	-
5/28/91	2,050	740	5	-	<0.3	<0.3	<0.3	<0.9	-	-	2900	3000	230	4200	-
6/3/91	2,110	800	10	-	<0.3	<0.3	<0.3	<0.9	-	-	2500	2100	110	2800	-
6/10/91	2,160	850	7	-	<0.3	<0.3	<0.3	<0.9	-	-	1800	1700	120	2100	-
6/17/91	2,219	909	8	-	<0.3	<0.3	<0.3	<0.9	-	-	2100	1900	170	2700	-
6/24/91	2,263	953	6	-	<0.3	<0.3	<0.3	<0.9	-	-	2100	1800	150	2700	-
07/01/91	2,313	1,003	7	-	<0.5	<0.5	<1	<1	-	-	2,700	2,000	150	2,900	-
07/08/91	2,700	1,390	55	-	<0.5	<0.5	<1	<1	-	-	4,000	2,500	130	4,400	-
07/15/91	2,872	1,562	25	-	<0.5	<0.5	<1	<1	-	-	3,100	1,900	140	3,200	-
07/22/91	3,144	1,834	39	-	<0.5	<0.5	<1	<1	-	-	3,400	2,100	110	2,800	-
07/29/91	3,220	1,910	11	-	<0.5	<0.5	<1	<1	-	-	5,100	2,200	180	2,700	-
08/05/91	3,348	2,038	18	-	<0.5	<0.5	<1	<1	-	-	5,100	3,900	400	4,200	-
08/12/91	3,472	2,162	18	-	<0.5	<0.5	<1	<1	-	-	11,000	6,200	440	8,400	-
08/19/91	3,548	2,238	11	-	<0.5	<0.5	<1	<1	-	-	4,500	2,400	130	2,600	-
08/26/91	3,655	2,345	15	-	<0.5	<0.5	<1	<1	-	-	4,400	2,500	260	3,600	-
09/09/91	3,822	2,512	12	-	<0.5	<0.5	<1	<1	-	-	5,200	3,000	390	3,700	-
09/16/91	3,884	2,574	9	-	<0.5	<0.5	<1	<1	-	-	4,100	2,000	460	4,900	-
09/23/91	4,013	2,703	18	-	<0.5	<0.5	<1	<1	-	-	4,600	1,600	710	6,400	-
09/30/91	4,092	2,782	11	-	<0.5	<0.5	<1	<1	-	-	5,700	2,000	380	6,200	-
10/07/91	4,131	2,821	6	System shut down						-					-
10/14/91	4,195	2,885	9	-	<0.5	<0.5	<1	<1	-	-	4,400	2,000	370	8,100	-
10/21/91	4,406	3,096	30	-	<0.5	<0.5	<1	<1	-	-	2,300	1,100	190	4,200	-
10/28/91	4,474	3,164	10	-	<0.5	<0.5	<1	<1	-	-	6,400	4,100	620	6,100	-
11/03/91	4,613	3,303	23	-	<0.5	<0.5	<1	<1	-	-	6,100	2,800	200	5,600	-
11/11/91	4,700	3,390	11	-	<0.5	<0.5	<1	<1	-	-	6,500	2,300	<30	4,900	-
11/18/91	4,887	3,577	27	-	<0.5	<0.5	<1	<1	-	-	5,600	2,500	300	4,600	-
11/25/91	5,042	3,732	22	-	<0.5	<0.5	<1	<1	-	-	5,400	2,800	230	5,700	-
12/03/91	5,263	3,953	28	-	<0.5	<0.5	<1	<1	-	-	7,200	3,300	490	5,500	-
12/09/91	5,362	4,052	17	-	<0.5	<0.5	<1	<1	-	-	4,400	1,700	140	3,900	-
12/16/91	5,486	4,176	18	-	<0.5	<0.5	<0.5	<0.5	-	-	4,700	2,300	310	4,600	-
12/23/91	5,516	4,206	4	-	<0.5	<0.5	<0.5	<0.5	-	-	4,000	2,200	290	5,900	-
12/30/91	5,575	4,265	8	-	<0.5	<0.5	<0.5	<0.5	-	-	5,200	2,500	350	5,800	-
01/15/92	5,720	4,410	9	-	<0.5	<0.5	<0.5	<0.5	-	-	3,400	1,900	300	6,300	-

TABLE 2

GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM

Thrifty Oil Co. Station No 049, 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
02/10/92	6,264	4,954	21	-	<0 5	<0 5	<0 5	<0 5	-	-	5,800	2,800	320	7,200	-
03/09/92	8,520	7,210	81	<200	<0.5	1.6	<0 5	<0 5	-	47,000	7,100	4,800	630	10,300	-
04/13/92	22,888	21,578	411	<200	<0.5	<0.5	<0.5	<0 5	-	29,000	4,500	2,200	160	4,800	-
05/11/92	24,920	23,610	73	<200	<0 5	<0 5	<0.5	<0.5	-	22,000	4,300	1,500	130	3,800	-
06/01/92	28,330	27,020	162	<200	<0 5	<0 5	<0 5	<0 5	-	18,000	3,400	1,500	660	4,200	-
07/13/92	72,675	27,020	-	-	<0.5	<0 5	<0 5	<0 5	-	-	1,800	750	150	5,600	-
07/13/92	72,675	27,020	-	The system pumped air and flowmeter jumped from 30,000 gallons to 70,000 gallons						-	-	-	-	-	-
08/17/92	75,046	29,391	68	-	<0 5	<0 5	<0 5	<0 5	-	-	1,100	350	200	1,100	-
09/14/92	75,582	29,927	19	-	<0 5	<0 5	<0 5	<1	-	-	2,100	520	<25	3,500	-
10/05/92	75,680	30,025	5	<200	<0.5	<0 5	<0 5	<1	-	19,000	1,700	270	<25	4,000	-
11/09/92	77,280	31,625	46	-	<0.5	<0 5	<0.5	<0.5	-	-	4,000	1,400	120	5,900	-
12/14/92	79,420	33,765	61	-	<0 5	<0 5	<0 5	<1	-	-	7,300	4,900	1,800	16,000	-
01/04/93	84,720	39,065	252	-	<0 5	<0 5	<0 5	<1	-	-	5,400	2,100	450	7,800	-
02/15/93	102,689	57,034	428	<200	<0.5	<0.5	<0 5	<1	-	41,000	6,600	3,200	260	9,600	-
02/22/93	146,430	57,034	-	The system pumped air and flowmeter jumped from 102,689 gallons to 146,430 gallons						-	-	-	-	-	-
03/08/93	147,500	58,104	76	-	<0 5	<0.5	<0.5	<1	-	-	7,400	3,400	56	11,000	-
04/26/93	151,200	61,804	76	<100	<0 5	<0 5	<0 5	<1	-	36,000	4,300	2,200	420	8,300	-
04/26/93	151,200	61,804	-	Shut down system for repair						-	-	-	-	-	-
07/21/93	151,240	61,844	0	Restart the system						-	-	-	-	-	-
08/11/93	151,650	62,254	20	-	<0.5	<0 5	<0.5	<1	-	-	6,500	2,300	390	6,200	-
09/16/93	154,005	64,609	65	<60	<0 3	<0.3	<0.3	<0 6	-	43,000	2,300	320	<4.4	2,900	-
10/04/93	154,896	65,500	50	<60	<0 3	<0 3	<0.3	<0 6	-	33,000	2,900	470	6 9	3,500	-
11/05/93	157,431	68,035	79	<50	<0 3	<0 3	<0 3	<0 5	-	15,000	1,100	27	<0.3	920	-
12/03/93	159,324	69,928	68	<50	<0 3	<0 3	<0 3	<0 5	-	16,000	1,100	88	<6.6	2,300	-
01/06/94	166,440	77,044	209	-	<0.3	<0 3	<0 3	<0.5	-	-	3,800	730	<13	1,200	-
02/03/94	170,720	81,324	153	-	<0.3	<0 3	<0 3	<0.5	-	-	3,600	610	<4 4	4,800	-
03/03/94	178,168	88,772	266	-	<0 3	<0.3	<0.3	<0 5	-	-	2,800	2,000	270	3,400	-
04/07/94	185,670	96,274	214	<50	<0 3	<0 3	<0.3	<0 5	-	26,000	2,200	550	<6.6	1,900	-
05/12/94	188,840	99,444	91	<50	<0 3	<0 3	<0.3	<0 5	-	4,600	100	10	8 4	280	-
06/16/94	194,680	105,284	167	<50	<0 3	<0 3	<0 3	<0.5	-	<50	<0 3	<0 3	<0 3	<0.5	-
07/11/94	199,135	109,739	178	<50	<0.3	<0 3	<0 3	<0.5	-	4,000	220	<2 6	<2 6	320	-
08/04/94	200,910	111,514	74	<50	<0.3	<0 3	<0 3	<0.5	-	7,800	480	6 2	<0.3	630	-
09/15/94	203,450	114,054	60	<50	<0.3	<0 3	<0 3	<0 5	-	3,200	150	2 4	2.6	170	-
10/10/94	205,210	115,814	70	<50	<0.3	<0.3	<0 5	<0 5	-	1,300	8 6	1 5	1 1	15	-
11/07/94	206,060	116,664	30	<50	<0.3	<0.3	<0.5	<0 5	-	170	1 5	<0 3	<0 5	0 5	-
12/05/94	207,093	117,697	37	<50	<0 3	<0.3	<0.5	<0 5	-	75	1.3	<0 3	<0 5	<0.5	-
01/09/95	207,293	117,897	6	<50	<0 3	<0.3	<0.5	<0.5	-	<50	<0 3	<0 3	<0 5	<0.5	-
02/01/95	207,650	118,254	16	<50	<0 3	<0 3	<0 5	<0.5	-	<50	<0.3	<0.3	<0.5	<0 5	-
02/06/95	207,810	118,414	32	<50	<0 3	<0 3	<0 5	<0 5	-	<50	2 7	<0.3	<0.5	<0 5	-

TABLE 2
GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM
Thrifty Oil Co. Station No 049, 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
03/10/95	208,430	119,034	19	<100	<0 5	<0 5	<0 5	<1	-	<100	<0.5	<0.5	<0 5	<1	-
04/10/95	208,564	119,168	4	<100	<0 5	<0 5	<0 5	<1	-	3,300	180	7 6	2 1	150	-
05/08/95	208,608	119,212	2	<100	<0.5	<0.5	<0.5	<1	-	11,000	640	9.2	<5	1,100	-
06/05/95	208,926	119,530	11	<100	<0.5	<0.5	<0.5	<1	-	5,100	270	2 2	<0 5	49	-
07/10/95	214,182	124,786	150	<100	<0 5	<0 5	<0 5	<1	-	13,000	1,600	120	24	1,300	-
08/07/95	221,876	132,480	275	Shut down system for repair						-	-	-	-	-	-
08/28/95	221,997	132,601	6	Restart the system						-	-	-	-	-	-
09/06/95	222,003	132,607	1	<100	<0 5	<0.5	<0 5	<1	-	2,300	<0.5	<0 5	<0 5	<1	-
10/09/95	222,343	132,947	10	<100	<0.5	<0 5	<0 5	<1	-	2,000	5.6	0.77	0 66	3 8	-
11/06/95	222,704	133,308	13	<50	0 3	0 31	<0 3	0 68	-	3,000	27	1.7	3 7	48	-
12/11/95	223,792	134,396	31	<50	<0 3	<0.3	<0.3	<0 5	-	<50	<0.3	<0.3	<0 3	0 96	-
01/08/96	224,661	135,265	31	970	<0 3	<0.3	<0.3	0 67	-	1,800	39	<0 3	<0 3	<0.5	-
02/12/96	227,812	138,416	90	<50	10	0.37	<0 3	0.53	-	3,300	190	<7 5	<7 5	20	-
03/12/96	229,301	139,905	51	<50	<0.3	<0 3	<0 3	<0 5	-	2,700	250	2 3	<1 5	<2.5	-
04/08/96	242,320	152,924	482	<50	<0 3	<0 3	<0 3	<0 5	-	1,000	90	5	<0 3	67	-
05/06/96	247,840	158,444	197	100	<0 3	<0 3	<0 3	<0 5	-	15,000	2,200	600	32	2,400	-
06/03/96	248,423	159,027	21	Shut down system for carbon change						-	-	-	-	-	-
08/08/96	248,423	159,027	-	Start-up system						-	-	-	-	-	-
08/20/96	248,630	159,234	17	<50	<0.3	<0 3	<0 3	<0 5	-	2,100	24	<0.3	<0 3	49	-
09/23/96	259,030	169,634	306	<50	<0.3	<0.3	<0 3	<0 5	-	4,100	260	<3	<3	34	-
10/16/96	263,610	174,214	199	<50	<0 3	<0 3	<0 3	<0 5	-	2,700	220	3 8	<0.6	44	-
11/19/96	263,986	174,590	11	<50	<0 3	<0 3	<0.3	<0 5	-	1,200	<0 3	<0.3	<0.3	<0 5	-
12/16/96	264,210	174,814	8	<50	<0 3	<0.3	<0.3	1 5	-	29,000	410	2,300	120	1,100	-
01/22/97	266,220	176,824	54	<50	<0 3	<0.3	<0.3	<0 5	-	68,000	<0.3	<0.3	<0 3	<0.5	-
02/24/97	267,030	177,634	25	<50	<0 3	<0.3	<0.3	<0.5	-	51,000	3,500	3,200	390	2,200	-
03/17/97	267,230	177,834	10	<50	<0 3	<0.3	<0 3	<0.5	-	89,000	<6	11	<6	14	-
04/21/97	267,415	178,019	5	<50	<0 3	<0 3	<0 3	<0 5	-	61,000	730	18	130	360	-
05/22/97	276,535	187,139	294	<50	<0.3	<0 3	<0 3	<0 5	-	850	1.3	<0.3	0 4	4 6	-
06/23/97	281,214	191,818	146	-	-	-	-	-	-	-	-	-	-	-	-
07/14/97	284,210	194,814	143	<50	<0.3	<0 3	<0.3	<0 5	-	6,600	<0.3	0.59	<0.3	9	-
08/18/97	298,610	209,214	411	-	-	-	-	-	-	-	-	-	-	-	-
09/15/97	301,043	211,647	87	-	-	-	-	-	-	-	-	-	-	-	-
10/07/97	333,480	244,084	1,474	<50	<0 3	<0 3	<0 3	<0.5	-	94,000	<0 3	<0 3	<0 3	<0.5	-
11/17/97	334,286	244,890	20	-	-	-	-	-	-	-	-	-	-	-	-
12/08/97	334,382	244,986	5	-	-	-	-	-	-	-	-	-	-	-	-
12/12/97	334,382	244,986	-	Shut down system due to stolen equipment						-	-	-	-	-	-
04/08/98	334,382	244,986	-	<50	<0 3	<0 3	<0 3	<0 5	<20	3,100	12	1	<0.3	490	2,600
05/11/98	334,382	244,986	-	-	-	-	-	-	-	-	-	-	-	-	-
06/22/98	334,382	244,986	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 2
GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM
Thrifty Oil Co. Station No 049, 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
07/20/98	334,382	244,986	-	<50	<0 3	<0.3	<0 3	<0 5	-	52,000	8	0 52	0.83	1.5	-
08/03/98	346,521	257,125	867	Shut down system for carbon canisters replacement						-	-	-	-	-	-
09/17/98	354,985	265,589	188	-	-	-	-	-	-	-	-	-	-	-	-
10/14/98	358,015	268,619	112	<50	<0.3	<0.3	<0 3	1.6	-	3,100	45	13	3.5	350	-
11/05/98	359,600	270,204	72	System shut down due to vandalism and stolen equipment						-	-	-	-	-	-
11/20/98	359,600	270,204	-	Restart						-	-	-	-	-	-
12/11/98	369,452	280,056	469	-	-	-	-	-	-	-	-	-	-	-	-
12/24/98	-	280,056	-	No reading, meter broken						-	-	-	-	-	-
01/15/99	0	280,056	-	Replaced Flowmeter started at 0						-	-	-	-	-	-
01/21/99	985.5	281,042	164	57	<0 3	<0 3	<0 3	0.76	-	380	6 2	1	<0.3	9.1	-
02/12/99	1,971 0	282,027	45	-	-	-	-	-	-	-	-	-	-	-	-
03/12/99	4,390 0	284,446	86	-	-	-	-	-	-	-	-	-	-	-	-
04/15/99	8,595 0	288,651	124	<50	<0.3	<0 3	<0 3	<0 5	<5	410	1.6	0.78	<0.3	5	*580 / 330
05/04/99	9,410.0	289,466	43	-	-	-	-	-	-	-	-	-	-	-	-
05/18/99	9,410 0	289,466	-	Shut down system for pump controller repair by manufacturer						-	-	-	-	-	-
09/20/99	9,411 0	289,467	0	Restart the system						-	-	-	-	-	-
09/24/99	9,412 4	289,468	0	-	-	-	-	-	-	-	-	-	-	-	-
10/13/99	9,509.8	289,566	5	<50	<0 3	<0.3	<0 3	<0 5	<5	6,000	<0 3	<0.3	<0 3	<0.5	13,000
11/12/99	9,701 9	289,758	6	-	-	-	-	-	-	-	-	-	-	-	-
12/17/99	9,893 7	289,950	5	-	-	-	-	-	-	-	-	-	-	-	-
01/20/00	10,052 1	290,108	5	<50	<0.3	<0 3	<0 3	<0 5	-	<50	<0 3	<0 3	<0 3	<0.5	-
02/17/00	10,156 6	290,213	4	-	-	-	-	-	-	-	-	-	-	-	-
03/13/00	10,354.7	290,411	8	-	-	-	-	-	-	-	-	-	-	-	-
04/05/00	10,545.7	290,602	8	72 7	1 8	4 1	0 7	6 7	-	119,000	2,360	6,440	6,240	25,200	*30,800 / 21,800
05/19/00	11,071 7	291,128	12	Shut down system for carbon drum replacement						-	-	-	-	-	-
06/05/00	11,075 4	291,131	0	Restart the system											
06/14/00	11,131 6	291,188	6	<50	<0.3	<0 3	<0 3	<0 6	<5	<1,000	<6	<6	<6	14	24,500
07/06/00	11,362 0	291,418	10	Shut down system for carbon replacement											
07/17/00	0 0	291,418	-	Restart the system after carbon change, repipe and flowmeter change (starting at 0 0)											
07/24/00	411.0	291,829	59	<50	<0.3	<0.3	<0.3	<0.6	<5	205	<0 3	1	<0.3	<0 6	*99 / 104
08/21/00	8,193 0	299,611	278	-	-	-	-	-	-	-	-	-	-	-	-
09/18/00	27,251 0	318,669	681	-	-	-	-	-	-	-	-	-	-	-	-
10/18/00	54,280 0	345,698	901	<50	<0.18	<0 14	<0 18	<0 26	<0 24	357,000	2,380	2,960	1,290	6,850	9,630
10/30/00	64,610 0	356,028	861	-	-	-	-	-	-	-	-	-	-	-	-
11/27/00	79,870 0	371,288	545	-	-	-	-	-	-	-	-	-	-	-	-
12/22/00	99,240 0	390,658	775	-	-	-	-	-	-	-	-	-	-	-	-
01/17/01	101,250.0	392,668	77	<50	<0 18	<0.14	<0 18	<0 26	<0 24	24,700	783	373	2	3,480	15,000
02/23/01	144,120.0	435,538	1,159	-	-	-	-	-	-	-	-	-	-	-	-
03/30/01	195,400.0	486,818	1,465	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 2
GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM
Thrifty Oil Co. Station No 049, 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
04/06/01	199,090 0	490,508	527	System shut down for carbon replacement; Replaced on 4/11/01, restart on 4/13/01											
04/20/01	207,050.0	498,468	569	88	<0 18	<0 14	<0.18	<0 26	93	36,500	855	716	659	1,570	11,400
04/27/01	210,640 0	502,058	513	System shut down for repair/replacement of compressor's pressure switch and exhaust valve											
04/30/01	210,640 0	502,058	-	320	<0 18	<0 14	<0 18	<0 26	*337 / 60	7,620	268	22	10	124	*13,600 / 9,130
05/11/01	210,640 0	502,058	-	Replaced pressure switch on 5/7/01, system still off for carbon replacement											
05/21/01	210,640.0	502,058	-	Restart the system											
05/30/01	226,830.0	518,248	1,799	<50	<0 18	<0 14	<0 18	<0 26	<0 24	96,600	4,980	1,660	2,770	11,300	*53,600 / 41,600
06/29/01	267,230 0	558,648	1,347	-	-	-	-	-	-	-	-	-	-	-	-
07/11/01	310,010 0	601,428	3,565	<50	<0.18	<0 14	<0 18	<0 26	<0 24	162,000	<0.18	4,140	4,760	24,000	<0 24
08/17/01	441,270.0	732,688	3,548	-	-	-	-	-	-	-	-	-	-	-	-
09/28/01	498,310.0	789,728	1,358	-	-	-	-	-	-	-	-	-	-	-	-
10/03/01	503,930 0	795,348	1,124	<50	<0 18	<0 14	<0 18	<0 26	<0 24	31,600	<1 8	150	294	5,280	<2.4
11/12/01	664,700.0	956,118	4,019	-	-	-	-	-	-	-	-	-	-	-	-
12/28/01	706,300.0	997,718	904	-	-	-	-	-	-	-	-	-	-	-	-
01/11/02	721,050 0	1,012,468	1,054	System shut down for carbon replacement											
01/21/02	721,050 0	1,012,468	-	Restart the system											
02/01/02	731,320.0	1,022,738	934	<100	<0 3	<0 3	<0.3	<0 6	<5	1,172	1	1	1	6	<5
02/22/02	751,340 0	1,042,758	953	-	-	-	-	-	-	-	-	-	-	-	-
03/27/02	813,240 0	1,104,658	1,876	-	-	-	-	-	-	-	-	-	-	-	-
	WD PERMIT LIMITS:			*NE*	*5 0*	*5.0*	*5.0*	*5.0*	*NE*						

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

APPENDIX A

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT STATUS REPORT
THRIFTY OIL CO. S.S. #049
3400 SAN PABLO AVENUE
BELL, CA
DATE: 01-30-02

OBSERVATION WELLS

NO.	DTW	DTP	PT		DTB	DIA.	ODORS			F/P			
MONTHLY							YES	NO	S	YES	NO		
MW-1	3.95				17.75	2"		X			X	-	-
MW-2	8.45				23.78	2"		X			X	-	-
MW-3	5.78				24.18	2"		X			X	-	-
MW-4	4.51				13.69	4"		X			X	-	-
MW-5	4.48				13.68	2"		X			X	-	-
MW-6	3.86				13.06	2"		X			X	-	-
MW-7	5.14				13.56	4"		X			X	-	-
RW-1	12.30				24.42	6"		X			X	-	-

EXPLANATION

DTW - DEPTH TO WATER FROM SURFACE
DTP - DEPTH TO PRODUCT FROM SURFACE
PT - PRODUCT THICKNESS
S - SLIGHT
MEASUREMENTS IN FEET
REMARKS: _____

FREE PRODUCT REMOVED: APPROX. —GALLONS
WATER REMOVED: APPROX. — GALLONS

DATA RECORDED BY: _____
INPUT BY: C.D.

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	049	Date:	01.30.02
Address:			
Personnel:	SERBAN	Weather:	SUNNY DAY
Well No:	MW-1	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	17.75	Well Diameter	2"
Depth to Water (ft)	3.95	Est. Purge Volume:	9

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	10:53	10:54	10:55	10:56	10:57	10:58	11:00
EC	1100	1130	1140	1130	1160	1140	1130
pH	6.30	6.27	6.21	6.20	6.21	6.20	6.21
Temp	21.4	21.2	21.2	21.1	21.9	21.9	21.7
Gal.	1	2	3	5	6	7	9

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	11.06	Total Well Depth(ft).	17.75

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	049	Date:	01.30.02
Address:			
Personnel:	SERBAN,	Weather:	SUNNY DAY
Well No:	MW-2	Equip:	BAILER

Before Purging:

Total Well Depth: (ft.)	23.78	Well Diameter	2"
Depth to Water (ft)	9.45	Est. Purge Volume:	10

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	11:36	11:37	11:39	11:40	11:42	11:43	11:45
EC	1300	1340	1340	1320	1340	1320	1340
pH	6.04	6.01	6.06	6.04	6.M	6.04	6.M
Temp	21.2	21.1	20.9	20.7	20.7	20.3	20.3
Gal.	1	2	4	5	7	8	10

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection

Depth to Water (ft.)	12.10	Total Well Depth(ft).	23.78

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	049	Date:	01.30.07
Address:			
Personnel:	SCRIBNER,	Weather:	SUNNY DAY
Well No:	MW-3	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	24.18	Well Diameter	2"
Depth to Water (ft)	5.78	Est. Purge Volume:	12

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	10:04	10:06	10:08	10:09	10:11	10:13	10:15
EC	840	870	780	830	840	830	840
pH	6.36	6.34	6.30	6.31	6.30	6.28	6.30
Temp	21.1	21.1	20.9	20.8	20.6	20.2	20.3
Gal.	1	3	5	6	8	10	12

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	14.68	Total Well Depth(ft).	24.18

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	049	Date:	01.30.02
Address:			
Personnel:	SERBAN	Weather:	SUNNY DAY
Well No:	MW-4	Equip:	BAILER

Before Purging:

Total Well Depth: (ft.)	13.69	Well Diameter	4"
Depth to Water (ft)	4.51	Est. Purge Volume:	24

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	11:09	11:12	11:16	11:19	11:23	11:26	11:30
EC	980	960	970	990	970	990	970
pH	6.14	6.16	6.14	6.09	6.13	6.14	6.09
Temp	21.3	21.1	21.1	20.9	20.7	20.6	20.6
Gal.	3	6	10	13	17	20	24

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection

Depth to Water (ft.)	7.30	Total Well Depth(ft).	13.69

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	049	Date:	01.30.02
Address:			
Personnel:	SERBIA	Weather:	SUNNY DAY
Well No:	MW-5	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	13.68	Well Diameter	2"
Depth to Water (ft)	4.48	Est. Purge Volume:	6

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	10:44	10:45	10:46	10:47	10:48	10:49	10:50
EC	240	230	240	280	270	290	290
pH	6.36	6.41	6.40	6.41	6.41	6.41	6.40
Temp	21.3	21.3	21.1	20.9	20.8	20.7	20.7
Gal.	0.5	1	2	3	4	5	6

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	7.30	Total Well Depth(ft).	13.68

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	049	Date:	01.30.02
Address:			
Personnel:	SERBOW	Weather:	SUNNY DAY
Well No:	MW-6	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	13.06	Well Diameter	2"
Depth to Water (ft)	3.86	Est. Purge Volume:	6

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	9:54	9:55	9:56	9:57	9:58	9:59	10:00
EC	940	940	930	940	970	990	970
pH	6.18	6.20	6.22	6.20	6.19	6.18	6.20
Temp	21.3	21.1	20.9	20.7	20.6	20.4	20.3
Gal.	0.5	1	2	3	4	5	6
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	2.30	Total Well Depth(ft).	13.06

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	049	Date:	01.30.02
Address:			
Personnel:	SERBAN	Weather:	SUNNY DAY
Well No:	MW-7	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	13.56	Well Diameter	4"
Depth to Water (ft)	5.14	Est. Purge Volume:	22

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	10:21	10:24	10:27	10:30	10:33	10:36	10:40
EC	910	930	940	930	940	940	940
pH	6.30	6.31	6.33	6.37	6.40	6.40	6.41
Temp	21.4	21.3	21.3	21.1	20.9	20.8	20.6
Gal.	3	6	9	12	15	18	22

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	6.65	Total Well Depth(ft).	13.56

APPENDIX B

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Thrifty Oil (8871)
ATTN: Jeff Suryakusuma
13539 E. Foster Rd.
Santa Fe Springs, CA 90670

LAB REQUEST 87722
REPORTED 02/18/2002
RECEIVED 02/05/2002

PROJECT Station #049
3400 San Pablo 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.	Client Sample Identification
324483	TOC #049, MW6
324484	TOC #049, MW3
324485	TOC #049, MW7
324486	TOC #049, MW5
324487	TOC #049, MW1
324488	TOC #049, MW4
324489	TOC #049, MW2
324490	TOC #049, Trip 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.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 324483 **Client Sample ID** TOC #049, MW6
Matrix: WATER **Date Sampled:** 01/30/2002 **Time Sampled:** 14:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.18	ug/L	02/05/02 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	02/05/02 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	02/05/02 HP
Toluene	ND	1	0.3	0.14	ug/L	02/05/02 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	02/05/02 HP
8015M - Total Petroleum Hydrocarbons						
Gasoline	ND	1	50	50	ug/L	02/05/02 HP
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	92				%	70 - 130

Order #: 324484 **Client Sample ID** TOC #049, MW3
Matrix: WATER **Date Sampled:** 01/30/2002 **Time Sampled:** 14:10

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.18	ug/L	02/05/02 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	02/05/02 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	02/05/02 HP
Toluene	ND	1	0.3	0.14	ug/L	02/05/02 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	02/05/02 HP
8015M - Total Petroleum Hydrocarbons						
Gasoline	ND	1	50	50	ug/L	02/05/02 HP
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	92				%	70 - 130

Order #: 324485 **Client Sample ID** TOC #049, MW7
Matrix: WATER **Date Sampled:** 01/30/2002 **Time Sampled:** 14:15

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst

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

8021B BTEX + MTBE

Benzene	40	2	0.6	0.18	ug/L	02/05/02 HP
Ethyl benzene	8.0	1	0.3	0.18	ug/L	02/05/02 HP
Methyl t - butyl ether	45	2	10.0	0.24	ug/L	02/05/02 HP
Toluene	9.0	1	0.3	0.14	ug/L	02/05/02 HP
Xylene (total)	6.0	1	0.6	0.26	ug/L	02/05/02 HP

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	22	1	1	0.6	ug/L	02/11/02 LB

8015M - Total Petroleum Hydrocarbons

Gasoline	2,590	1	50	50	ug/L	02/05/02 HP
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	151				%	70 - 130

Order #: 324486 **Client Sample ID** TOC #049, MW5
Matrix: WATER **Date Sampled:** 01/30/2002 **Time Sampled:** 14:20

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	02/05/02 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	02/05/02 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	02/05/02 HP
Toluene	ND	1	0.3	0.14	ug/L	02/05/02 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	02/05/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	02/05/02 HP
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	92				%	70 - 130

Order #: 324487 **Client Sample ID** TOC #049, MW1
Matrix: WATER **Date Sampled:** 01/30/2002 **Time Sampled:** 14:30

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst

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

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	02/05/02 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	02/05/02 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	02/05/02 HP
Toluene	ND	1	0.3	0.14	ug/L	02/05/02 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	02/05/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	02/05/02 HP
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	92				%	70 - 130

Order #: 324488 **Client Sample ID** TOC #049, MW4
Matrix: WATER **Date Sampled:** 01/30/2002 **Time Sampled:** 14:40

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	02/05/02 HP
Ethyl benzene	1.0	1	0.3	0.18	ug/L	02/05/02 HP
Methyl t - butyl ether	43,000	1428	7140.0	0.24	ug/L	02/05/02 HP
Toluene	3.0	1	0.3	0.14	ug/L	02/05/02 HP
Xylene (total)	3.0	1	0.6	0.26	ug/L	02/05/02 HP

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	24,900	100	100.0	0.6	ug/L	02/13/02 LB

8015M - Total Petroleum Hydrocarbons

Gasoline	36,500	250	12500	50	ug/L	02/05/02 HP
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	96				%	70 - 130

Order #: 324489 **Client Sample ID** TOC #049, MW2
Matrix: WATER **Date Sampled:** 01/30/2002 **Time Sampled:** 14:45

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst

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

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	02/05/02 HP
Ethyl benzene	1.0	1	0.3	0.18	ug/L	02/05/02 HP
Methyl t - butyl ether	2,560	100	500.0	0.24	ug/L	02/05/02 HP
Toluene	1.0	1	0.3	0.14	ug/L	02/05/02 HP
Xylene (total)	2.0	1	0.6	0.26	ug/L	02/05/02 HP

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	1,590	10	10.0	0.6	ug/L	02/13/02 LB

8015M - Total Petroleum Hydrocarbons

Gasoline	1,770	1	50	50	ug/L	02/05/02 HP
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	105				%	70 - 130

Order #: 324490 **Client Sample ID** TOC #049, Trip Blank

Matrix: WATER **Date Sampled:** 01/30/2002 **Time Sampled:** 14:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	02/05/02 HP
Ethyl benzene	ND	1	0.3	0.18	ug/L	02/05/02 HP
Methyl t - butyl ether	ND	1	5	0.24	ug/L	02/05/02 HP
Toluene	ND	1	0.3	0.14	ug/L	02/05/02 HP
Xylene (total)	ND	1	0.6	0.26	ug/L	02/05/02 HP

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50	ug/L	02/05/02 HP
Surrogates					Units	Control Limits
a,a,a-Trifluorotoluene	90				%	70 - 130

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

ASSOCIATED LABORATORIES LAB REQUEST RESULTS SUMMARY

Client: Thrifty Oil
Jeff Suryakusuma
13539 E. Foster Rd.
Santa Fe Springs, CA 90670

Lab Request: 87722
Date Received: 2/5/2002
Print Date: 02/18/2002

Project: Station #049
3400 San Pablo Ave., Oakland

Objectives: Confirm MTBE by 8260.

Sample ID.	Gasoline	Benzene	Toluene	Ethyl benzene	Xylene (total)	MTBE	MTBE by EPA8260
TOC #049, MW1	ND	ND	ND	ND	ND	ND	
TOC #049, MW2	1,770 ug/L	ND	1.0 ug/L	1.0 ug/L	2.0 ug/L	2,560 ug/L	1,590 ug/L
TOC #049, MW3	ND	ND	ND	ND	ND	ND	
TOC #049, MW4	36,500 ug/L	ND	3.0 ug/L	1.0 ug/L	3.0 ug/L	43,000 ug/L	24,900 ug/L
TOC #049, MW5	ND	ND	ND	ND	ND	ND	
TOC #049, MW6	ND	ND	ND	ND	ND	ND	
TOC #049, MW7	2,590 ug/L	40 ug/L	9.0 ug/L	8.0 ug/L	6.0 ug/L	45 ug/L	22 ug/L
TOC #049, Trip Blank	ND	ND	ND	ND	ND	ND	

ND = Not Detected
Blank Field = Component not analyzed by this method.

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 87611-978

Matrix. WATER

Prep. Date. 02/04/02

Analysis Date: 02/04-05/02

ID#'s in Batch. LR 87668, 87643, 87661, 87721, 87722

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
TPH	8015M-G	ND	200	196	196	98	98	0.0

ND = Not Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK					
	Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	202	200	101	80%	120%

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

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	70-130
QA Sample	88
MS	116
MSD	116
Method Blank	92
LCS	117

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 87722-484

Matrix: WATER

Prep. Date: 02/06/02

Analysis Date: 02/06-07/02

ID#'s in Batch: LR 87804, 87836

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
TPH	8015M-G	ND	200	232	205	116	103	12.4

ND = Not Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	206	200	103	80%	120%

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

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	70-130
QA Sample	92
MS	118
MSD	117
Method Blank	93
LCS	116

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES

QA REPORT FORM

QC Sample: LR 87611-978

Matrix: WATER

Prep. Date: 02/04/02

Analysis Date: 02/04/02

LAB ID#'s in Batch: LR 87668, 87643, 87661, 87721, 87722

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD
Benzene	8021	ND	10	8.5	8.4	85	84	1
Toluene	8021	ND	10	8.3	8.3	83	83	0
Ethylbenzene	8021	ND	10	9.4	9.4	94	94	0
Xylenes	8021	ND	20	18.0	18.1	90	91	1

ND = Not Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup
%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Benzene	8021	ND	8.5	10	85	80%	120%
Toluene	8021	ND	8.3	10	83	80%	120%
Ethylbenzene	8021	ND	9.3	10	93	80%	120%
Xylenes	8021	ND	18.0	20	90	80%	120%

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

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	70-130
QA Sample	88
MS	94
MSD	94
Method Blank	92
LCS	94

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 02/12/02

Applies to: LR 87722

Reporting Units = ug/L

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	49.09	52.07	98	104	6	22	59-172
MTBE	ND	50	35.85	37.33	72	75	4	24	62-137
Benzene	ND	50	49.89	50.54	100	101	1	24	62-137
Trichloroethene	ND	50	60.48	60.11	121	120	1	21	66-142
Toluene	ND	50	50.54	50.01	101	100	1	21	59-139
Chlorobenzene	ND	50	49.34	49.90	99	100	1	21	60-133

QC Sample: LCS # 1
Analysis Date: 02/11/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	49.83	100	59-172
MTBE	ND	50	38.46	77	62-137
Benzene	ND	50	48.67	97	62-137
Trichloromethene	ND	50	55.63	111	66-142
Toluene	ND	50	48.21	96	59-139
Chlorobenzene	ND	50	49.92	100	60-133

Method Blank = All ND

SURROGATE QC LIMIT: 70-135	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	81	86	108	100
LCSD	82	86	106	104
BLANK # 1	76	79	99	110
BLANK # 2	93	87	102	106
LCS # 1	83	86	101	106

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 02/13/02

Applies to: LR 87721, 87722

Reporting Units = ug/L

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	44.27	43.96	89	88	1	22	59-172
MTBE	ND	50	37.87	38.52	76	77	2	24	62-137
Benzene	ND	50	48.90	48.76	98	98	0	24	62-137
Trichloroethene	ND	50	59.93	58.71	120	117	2	21	66-142
Toluene	ND	50	48.46	47.96	97	96	1	21	59-139
Chlorobenzene	ND	50	47.63	48.14	95	96	1	21	60-133

QC Sample: LCS # 1
Analysis Date: 02/13/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	45.67	91	59-172
MTBE	ND	50	38.09	76	62-137
Benzene	ND	50	50.33	101	62-137
Trichloroethene	ND	50	58.65	117	66-142
Toluene	ND	50	48.79	98	59-139
Chlorobenzene	ND	50	49.90	100	60-133

Method Blank = All ND

SURROGATE QC LIMIT: 70-135	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	77	88	103	105
LCSD	76	89	103	100
BLANK # 1	86	87	102	105
BLANK # 2	92	86	101	109
LCS # 1	79	87	106	107

Chain of Custody Record

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone. (714) 771-6900 ▪ Fax (714) 538-1209

Company THRIFTY OIL CO. Phone (562) 921-3531
Project Manager JEFF DURHAMSUMA Fax (562) 921-3510
Project Name G. W. S. Project # 0449
Site Name and Address 3400 SAN PABLO AVE OAKLAND, CA. 94612
A.L. Job No. 9712 Page ____ of ____

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH	TBE	TBM	TBT	Analysis Requested	Test Instructions & Comments
1	MW6		01.30.02	14:00	H_2O	3 VOA	HCL	X	X	X			TO600101366
2	MW3			14:10				X	X	X			*CONFIRM BY EPA
3	MW7			14:15				X	X	X			METHOD 8260 B
4	MW5			14:20				X	X	X			
5	MW1			14:30				X	X	X			
6	MW4			14:40				X	X	X			
7	MW2			14:45				X	X	X			
8	TRIP BLANK			14:00		2 VOA		X	X				
9													
10													
11													
12													
13													
14													
15													

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers	23	Properly Cooled Y / N / NA	Y
Custody Seals Y / N / NA	Y	Samples Intact Y / N / NA	Y
Received in Good Condition Y / N	Y	Samples Accepted Y / N	Y

Turn Around Time

☑ Normal ☐ Rush ☐ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

	1.	2.	3.
Relinquished by Sampler:	JEFF BURHAMSUMA	FEDEX	
Signature:			
Printed Name:	JEFF BURHAMSUMA		
Date	01.30.02 Time: 18:30	Date: Time:	Date: Time:
Received By:	1. FEDEX	2.	3.
Signature			
Printed Name:			
Date: Time:		Date: 2/5 Time: 9:40	Date: 2-5 Time: 11:30

APPENDIX C

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 03.27.02

OBSERVATIONS AND COMMENTS: Add oil, check belt, hoses, clean water filter bag, replace cartrige water filter,

FLOW METER READING: -0813240-

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: 0.7

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.4

INSPECTOR'S SIGNATURE: [signature]

THRIFTY OIL CO. SERVICE STATION # 049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 03.22.02

OBSERVATIONS AND COMMENTS: Add oil, clean water filter bag, replace cartrige water filter, check belt, hoses,

FLOW METER READING: — 0807100 —

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: Filter

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 03.15.02

OBSERVATIONS AND COMMENTS: Add oil, replace cartrige water filter, clean water bag filter, check belt, hoses,

FLOW METER READING: 0781450 -

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: M

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

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 0.7

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: 0.5

INSPECTOR'S SIGNATURE: S Popescu

(049)

THRIFTY OIL CO. SERVICE STATION #

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERRADOPRESS

DATE OF INSPECTION: 03.08.02

OBSERVATIONS AND COMMENTS: CHECK BELT, HOSSES, CLEAN WATER FILTER BAG, REPLACE CARTRIGE WATER FILTER, CHANGE OIL

FLOW METER READING: -0760830-

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

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: 0.8

INSPECTOR'S SIGNATURE: [signature]

THRIFTY OIL CO. SERVICE STATION #49

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 03.01.02

OBSERVATIONS AND COMMENTS: Add oil, check belt, hoses, replace cartrige water filter, clean water filter bag

FLOW METER READING: —0760270—

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 12

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

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

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

INSPECTOR'S SIGNATURE: [signature]

THRIFTY OIL CO. SERVICE STATION # 049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 02.22.02

OBSERVATIONS AND COMMENTS: Add oil, check belt, hoses, clean water filter bag, replace cartrige water filter,

FLOW METER READING: -0751340-

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 12

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]

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERRANO/PEREZ

DATE OF INSPECTION: 02.15.02

OBSERVATIONS AND COMMENTS: Add oil, check belt, replace cartrige water filter, check hoses, drums,

FLOW METER READING: -0749090-

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

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]

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 02.08.02

OBSERVATIONS AND COMMENTS: Add oil, check belt, clean water filter bag, replace cartrige water filter check connections between hoses-

FLOW METER READING: -0739970-

SAMPLES OBTAINED: H/O

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 11

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 1.8

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

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 02.01.02

OBSERVATIONS AND COMMENTS: CHECK BELT, OIL, CLEAN WATER FILTER BAG, REPLACE CARTRIDGE WATER FILTER,

FLOW METER READING: -0731320-

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 #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 01.25.02

OBSERVATIONS AND COMMENTS: CHECK OIL, BELT, HOSES,

FLOW METER READING: 0724480

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 14

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: 0.9

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

INSPECTOR'S SIGNATURE: [signature]

EARTH MANAGEMENT CO.
Environmental Remediation

DATE: 01.21.02

START-UP/SHUT DOWN REPORT

STATION NO.: 049

SYSTEM TYPE: _____

START-UP REPORT:

After change carbon and fill with clean water for wet the carbon / restart system again -

SHUT DOWN REPORT:

SIGNATURE: _____

THRIFTY OIL CO. SERVICE STATION #: 049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 01.11.02

OBSERVATIONS AND COMMENTS: Shut down for change carbon

FLOW METER READING: — 0721050 —

SAMPLES OBTAINED: N/A

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: _____

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBANPAFSU

DATE OF INSPECTION: 01-04-02

OBSERVATIONS AND COMMENTS: Change oil, check belt, hoses connections clean water filter bag, replace cartrige water filter

FLOW METER READING: - 0714510 -

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 16

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: 1.1

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

INSPECTOR'S SIGNATURE: [signature]

APPENDIX D

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

CLIENT Thrifty Oil (8871)
ATTN: Jeff Suryakusuma
13539 E. Foster Rd.
Santa Fe Springs, CA 90670

LAB REQUEST 87721
REPORTED 02/14/2002
RECEIVED 02/05/2002

PROJECT Station #049
3400 San Pablo Ave., Oakland CA 94612

SUBMITTER Client

COMMENTS Added 8260 MTBE to 324480-481 per DR 2-8-02 AV

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.	Client Sample Identification
324478	TOC #049, Outlet PSPH1
324479	TOC #049, Int 1
324480	TOC #049, Int 2
324481	TOC #049, Int 3
324482	TOC #049, Inlet

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.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 324478
Matrix: WATER
Date Sampled: 01/30/2002
Time Sampled: 09:00
Sampled By:

Client: Thrifty Oil
Client Sample ID: TOC #049, Outlet PSPH1

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX + MTBE						
Benzene	ND	1	0.3	ug/L	02/05/02	HP
Ethyl benzene	ND	1	0.3	ug/L	02/05/02	HP
Methyl t - butyl ether	ND	1	5	ug/L	02/05/02	HP
Toluene	ND	1	0.3	ug/L	02/05/02	HP
Xylene (total)	ND	1	0.6	ug/L	02/05/02	HP
8015M - Total Petroleum Hydrocarbons						
Gasoline	ND	1	100	ug/L	02/05/02	HP
Surrogates				Units	Control Limits	
a,a,a-Trifluorotoluene	90			%	70 - 130	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Facto

Order #: 324479
Matrix: WATER
Date Sampled: 01/30/2002
Time Sampled: 09:10
Sampled By:

Client: Thrifty Oil
Client Sample ID: TOC #049, Int 1

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX + MTBE						
Benzene	ND	1	0.3	ug/L	02/05/02	HP
Ethyl benzene	ND	1	0.3	ug/L	02/05/02	HP
Methyl t - butyl ether	4	1	5	ug/L	02/05/02	HP
Toluene	ND	1	0.3	ug/L	02/05/02	HP
Xylene (total)	ND	1	0.6	ug/L	02/05/02	HP
8015M - Total Petroleum Hydrocarbons						
Gasoline	ND	1	100	ug/L	02/05/02	HP
Surrogates				Units	Control Limits	
a,a,a-Trifluorotoluene	92			%	70 - 130	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Facto

Order #: 324480
Matrix: WATER
Date Sampled: 01/30/2002
Time Sampled: 09:20
Sampled By:

Client: Thrifty Oil
Client Sample ID: TOC #049, Int 2

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX + MTBE						
Benzene	16	1	0.3	ug/L	02/05/02	HP
Ethyl benzene	2	1	0.3	ug/L	02/05/02	HP
Methyl t - butyl ether	20	1	5	ug/L	02/05/02	HP
Toluene	2	1	0.3	ug/L	02/05/02	HP
Xylene (total)	2	1	0.6	ug/L	02/05/02	HP
8260B BTEX/MTBE Only						
Methyl-tert-butylether (MTBE)	11.1	1	1	ug/L	02/12/02	LB
8015M - Total Petroleum Hydrocarbons						
Gasoline	632	1	100	ug/L	02/05/02	HP
Surrogates				Units	Control Limits	
a,a,a-Trifluorotoluene	120			%	70 - 130	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Facto

Order #: 324481
Matrix: WATER
Date Sampled: 01/30/2002
Time Sampled: 09:25
Sampled By:

Client: Thrifty Oil
Client Sample ID: TOC #049, Int 3

Analyte	Result	DF	DLR	Units	Date/Analyst	
8021B BTEX + MTBE						
Benzene	58	1	0.3	ug/L	02/05/02	HP
Ethyl benzene	5	1	0.3	ug/L	02/05/02	HP
Methyl t - butyl ether	49	2	10.0	ug/L	02/05/02	HP
Toluene	7	1	0.3	ug/L	02/05/02	HP
Xylene (total)	4	1	0.6	ug/L	02/05/02	HP
8260B BTEX/MTBE Only						
Methyl-tert-butylether (MTBE)	25.7	1	1	ug/L	02/12/02	LB
8015M - Total Petroleum Hydrocarbons						
Gasoline	2177	1	100	ug/L	02/05/02	HP
Surrogates				Units	Control Limits	
a,a,a-Trifluorotoluene	144			%	70 - 130	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Facto

Order #: 324482
Matrix: WATER
Date Sampled: 01/30/2002
Time Sampled: 09:30
Sampled By:

Client: Thrifty Oil
Client Sample ID: TOC #049, Inlet

Analyte	Result	DF	DLR	Units	Date/Analyst
8021B BTEX + MTBE					
Benzene	1	1	0.3	ug/L	02/05/02 HP
Ethyl benzene	1	1	0.3	ug/L	02/05/02 HP
Methyl t - butyl ether	ND	1	5	ug/L	02/05/02 HP
Toluene	1	1	0.3	ug/L	02/05/02 HP
Xylene (total)	6	1	0.6	ug/L	02/05/02 HP
8015M - Total Petroleum Hydrocarbons					
Gasoline	1172	1	100	ug/L	02/05/02 HP
Surrogates				Units	Control Limits
a,a,a-Trifluorotoluene	163			%	70 - 130

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Facto

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: • LCS/LCSD - Water Samples

Analysis Date: 02/13/02

Applies to: LR 87721

Reporting Units = ug/L

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	44.27	43.96	89	88	1	22	59-172
MTBE	ND	50	37.87	38.52	76	77	2	24	62-137
Benzene	ND	50	48.90	48.76	98	98	0	24	62-137
Trichloroethene	ND	50	59.93	58.71	120	117	2	21	66-142
Toluene	ND	50	48.46	47.96	97	96	1	21	59-139
Chlorobenzene	ND	50	47.63	48.14	95	96	1	21	60-133

QC Sample: LCS # 1
Analysis Date: 02/13/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	45.67	91	59-172
MTBE	ND	50	38.09	76	62-137
Benzene	ND	50	50.33	101	62-137
Trichloroethene	ND	50	58.65	117	66-142
Toluene	ND	50	48.79	98	59-139
Chlorobenzene	ND	50	49.90	100	60-133

Method Blank = All ND

SURROGATE QC LIMIT: 70-135	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	77	88	103	105
LCSD	76	89	103	100
BLANK # 1	86	87	102	105
BLANK # 2	92	86	101	109
LCS # 1	79	87	106	107

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 87611-978

Matrix: WATER

Prep. Date: 02/04/02

Analysis Date: 02/04/02

LAB ID#'s in Batch: LR 87668, 87643, 87661, 87721, 87722

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD
Benzene	8021	ND	10	8.5	8.4	85	84	1
Toluene	8021	ND	10	8.3	8.3	83	83	0
Ethylbenzene	8021	ND	10	9.4	9.4	94	94	0
Xylenes	8021	ND	20	18.0	18.1	90	91	1

ND = Not Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup
%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BLK Value	LCS Result	True	%Rec	L.Limit	H.Limit
Benzene	8021	ND	8.5	10	85	80%	120%
Toluene	8021	ND	8.3	10	83	80%	120%
Ethylbenzene	8021	ND	9.3	10	93	80%	120%
Xylenes	8021	ND	18.0	20	90	80%	120%

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

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	70-130
QA Sample	88
MS	94
MSD	94
Method Blank	92
LCS	94

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 87611-978

Matrix: WATER

Prep. Date: 02/04/02

Analysis Date: 02/04-05/02

ID#'s in Batch: LR 87668, 87643, 87661, 87721, 87722

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = ug/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
TPH	8015M-G	ND	200	196	196	98	98	0.0

ND = Not Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

	PREP BLK					
	Value	Result	True	%Rec	L.Limit	H.Limit
LCS	ND	202	200	101	80%	120%

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

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	70-130
QA Sample	88
MS	116
MSD	116
Method Blank	92
LCS	117

AAA-TFT = a,a,a-Trifluorotoluene

Chain of Custody Record

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

Company	THRIFTY OIL CO
Phone	(562) 921-3581
Project Manager	JEFF SURYAKUSUMA
Fax	(562) 921-7560
Project Name	System water sampling
Project #	044
Site Name and Address	3600 SAN PABLO AVE OAKLAND, CA. 94612
A.L. Job No.	37721
Page	of

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH	BTEX	*MTBE							Test Instructions & Comments
1	OUTLET PSPH		01.30.02	9:00	H2O	3VOA	HCL	X	X	X							* CONFIRM BY EPA
2	INT 1		↕	9:10	↕	↕	↕	X	X	X							METHOD 8260B
3	INT 2			9:20				X	X	X							
4	INT 3			9:25				X	X	X							
5	INLET			9:30				X	X	X							
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers	15	Properly Cooled Y / N / NA	Y
Custody Seals Y / N / NA	N	Samples Intact Y / N / NA	Y
Received in Good Condition Y / N	Y	Samples Accepted Y / N	Y

Turn Around Time

☑ Normal ☐ Rush ☐ Same Day ☐ 24 hrs. ☐ 48 hrs. ☐ 72 hrs.

	1.	2.	3.
Relinquished by	Sampler: SERBAN P	FEDEX	
Signature	[signature]		
Printed Name	SERBAN POPA		
Date / Time	01.30.02 / 18:30	Date: Time:	Date Time
Received By	FEDEX		
Signature		[signature]	
Printed Name		DUNG W	
Date / Time	Date: Time:	2/5 / 9:40	Date Time