THRIFTY OIL CO.

RO-004

October 30, 2002

O.32715
Local #4057
RWQCB #01-1478
Global ID #T0600101365
Confirmation #9445106744

Ms. Eva Chu
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
3rd Quarter 2002, Status Report

Dear Ms. Chu:

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

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

Sincerely,

Chris Panaitescu
General Manager
Environmental Affairs

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

THRIFTY OIL CO.

October 29, 2002

Local #4057
RWQCB #01-1478
Global ID #T0600101365
Confirmation #9445106744

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
3rd Quarter 2002, Status Report

Dear Ms. Hugo:

Presented herein is the Third Quarter 2002, Status Report prepared for former Thrifty Oil Co. (Thrifty) Station #049 located at 3400 San Pablo Avenue, Oakland, California (**Figure 1**). This report presents the results of the site monitoring and remedial activities conducted during the third quarter of 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 5.26 feet below surface grade (bsg) in monitoring well MW-4 to 9.98 feet bsg in monitoring well MW-2 (**Appendix A**). A groundwater elevation contour map based on the July 31, 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 0.03 feet/foot. Recovery well RW-1 was not used to calculate the gradient presented on **Figure 2**, because it was not gauged and sampled on July 31, 2002. Monitoring well MW-2 was not included to contour the groundwater map, because the data appears to be anomalous.

Quarterly Groundwater Sampling

As part of the ongoing groundwater-monitoring program, EMC obtained groundwater samples were obtained from monitoring wells MW-1 through MW-7 on July 31, 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 for TPH-g, BTEX, and MTBE is 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**.

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 (19,300 ug/L, and 10,100 ug/L, respectively), and the highest results of benzene was found in well MW-3 (1.1 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 51,870 gallons of groundwater, and has treated approximately 1,355,435 gallons of groundwater since start up (April 1991) through September 27, 2002. The system was non-operational from July 31 through August 16, 2002 for carbon change out, and again on August 20 through August 30, 2002 due to power outage. The system was operational throughout the remaining quarter.

Inlet, intermediate 3, intermediate 2, intermediate 1, and outlet water samples were collected on July 15, 2002, and only outlet water samples were collected on September 20, 2002 from the treatment unit. The samples collected by EMC were sent to a state certified laboratory for analysis, and were analyzed for TPH-g, BTEX, and MTBE by EPA methods 8015M and 8021B, respectively. All analyzed outlet samples were below the laboratory detection limits. Copies of the laboratory analytical reports are included in **Appendix D**.

Other Activities

Thrifty is receipt of the Alameda County Health Care Agency (ACHCA) letter dated August 9, 2002. After reviewing the letter Thrifty's representative Mr. Raymond C. Friedrichsen contacted Ms. Eva Chu of the ACHCA via telephone requesting that the site assessment workplan be submitted after the third quarter reporting period. It was agreed that Thrifty would submit a work plan for a one-mile well search and an additional site assessment investigation. Thrifty would also propose parameters for the remedial system upgrade including connecting well MW-4 to the remediation system. Once Thrifty has submitted the workplan for site assessment and system upgrade, and ACHCS has a chance to review and approve the workplan, Thrifty will bid out the scope of work to consultants. Upon reviewing the consultant's bids, Thrifty will retain a consultant to perform the work.

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

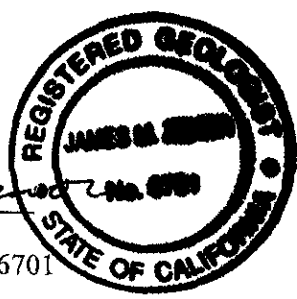
All interpretations expressed in this report are based solely upon data collected be EMC, and laboratory analyses conducted by Associated Laboratories.

Written by:

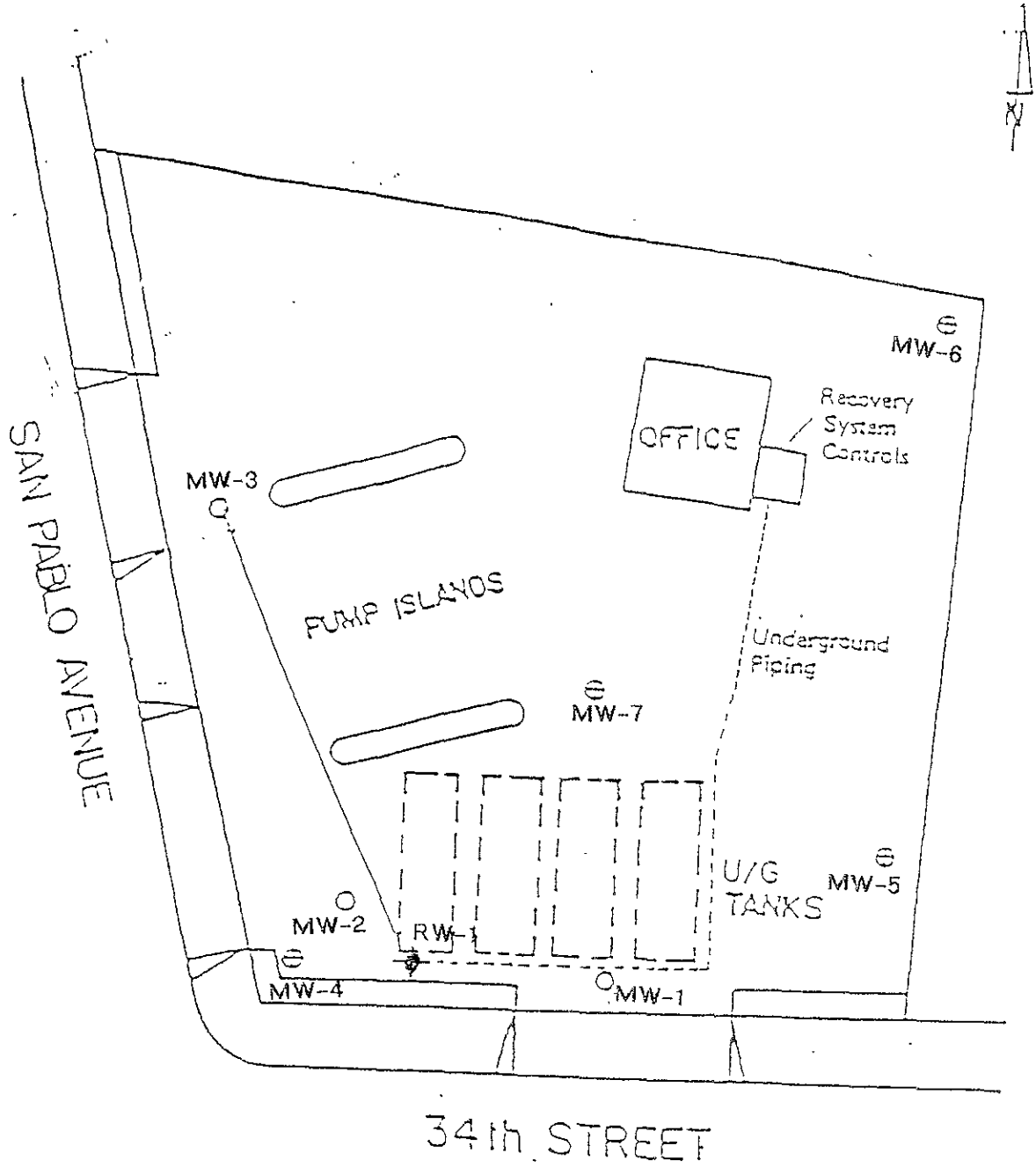
Raymond C. Friedrichsen, REA II
Project Manager, MBA
Senior Environmental Hydrogeologist

Reviewed by:

Jim Zenor, RG
Registered Geologist #6701



FIGURES

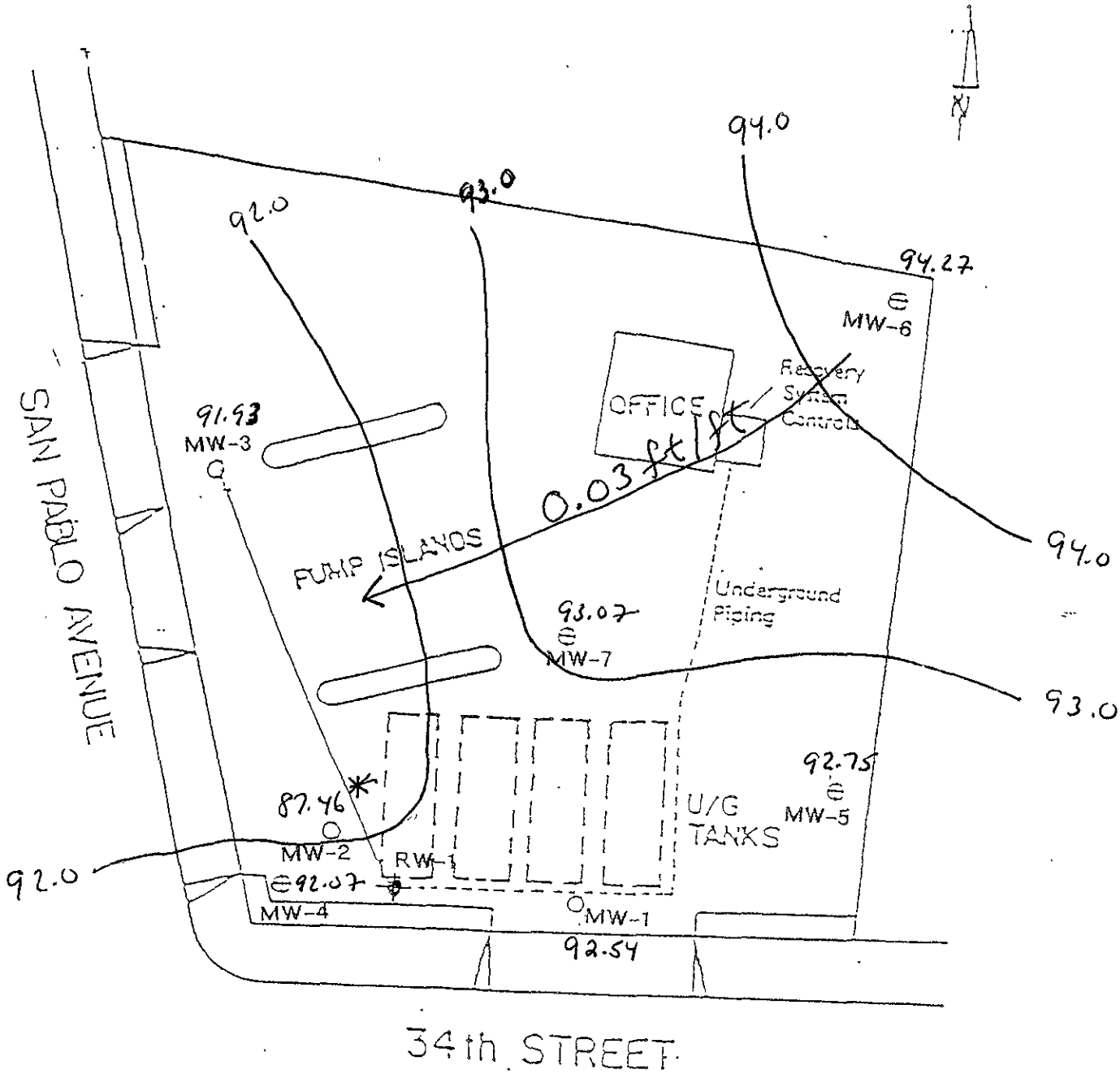


SITE PLAN AND RECOVERY SYSTEM LOCATION
THRIFTY SERVICE STATION NO. 49
3400 SAN PABLO AVE.
OAKLAND, CA

0 20
FEET

LEGEND

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



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

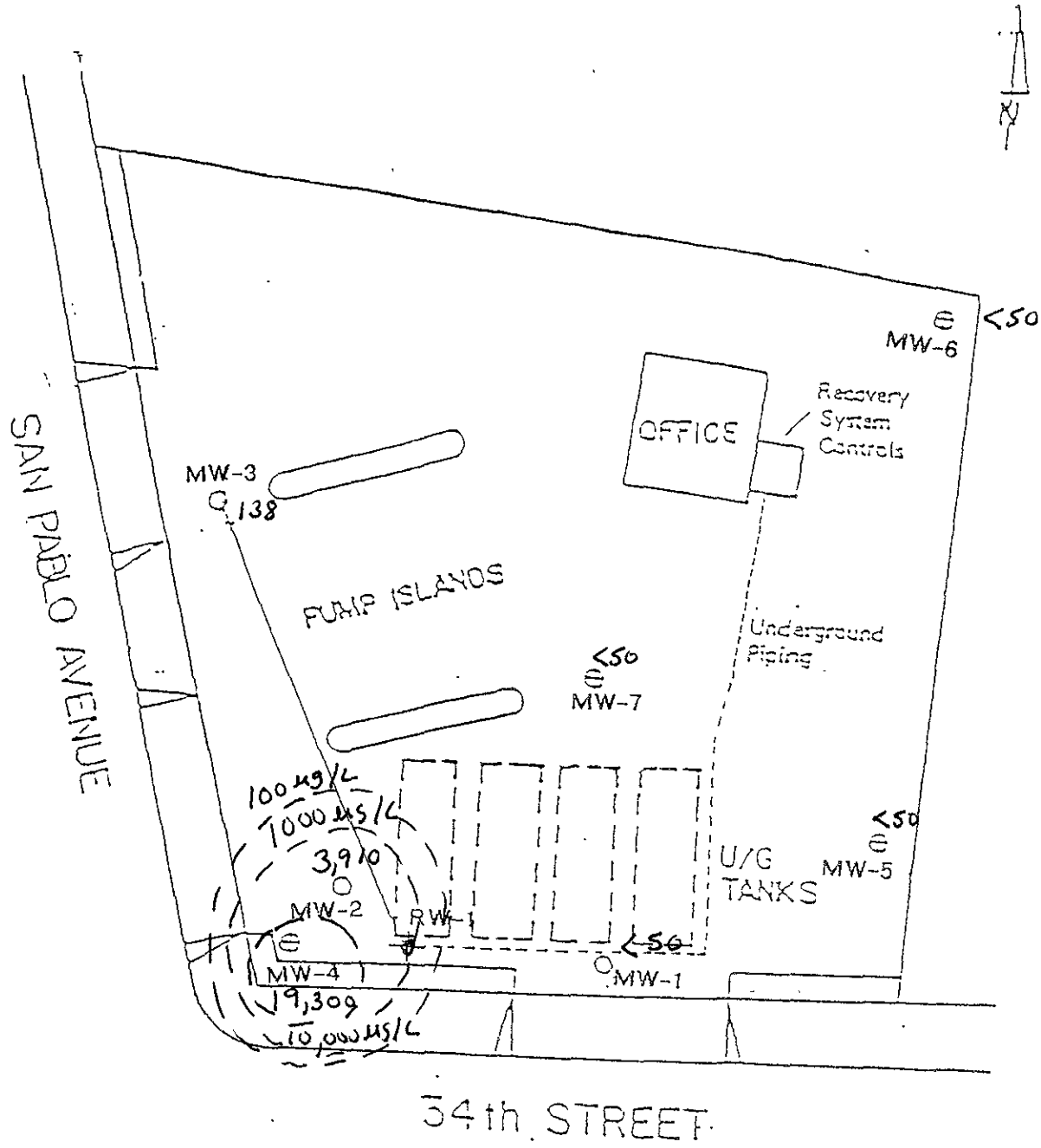
LEGEND

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

* Not Used for Contouring

0 25
FEET

07/31/02



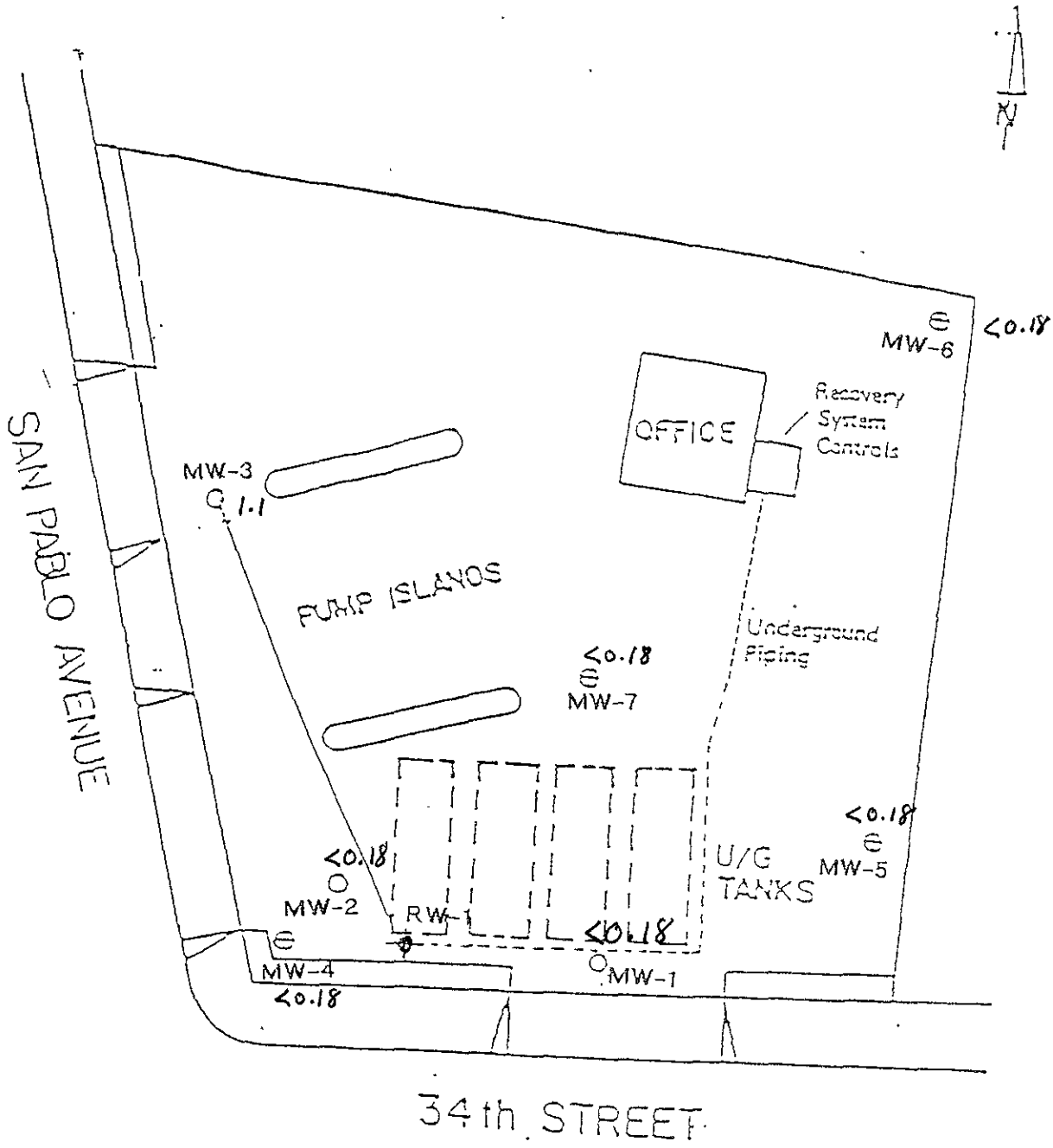
TPH ISOCONCENTRATION MAP ug/L
THRIFTY SERVICE STATION NO. 49
3400 SAN PABLO AVE.
OAKLAND, CA

0 25
FEET

LEGEND

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

07/31/02



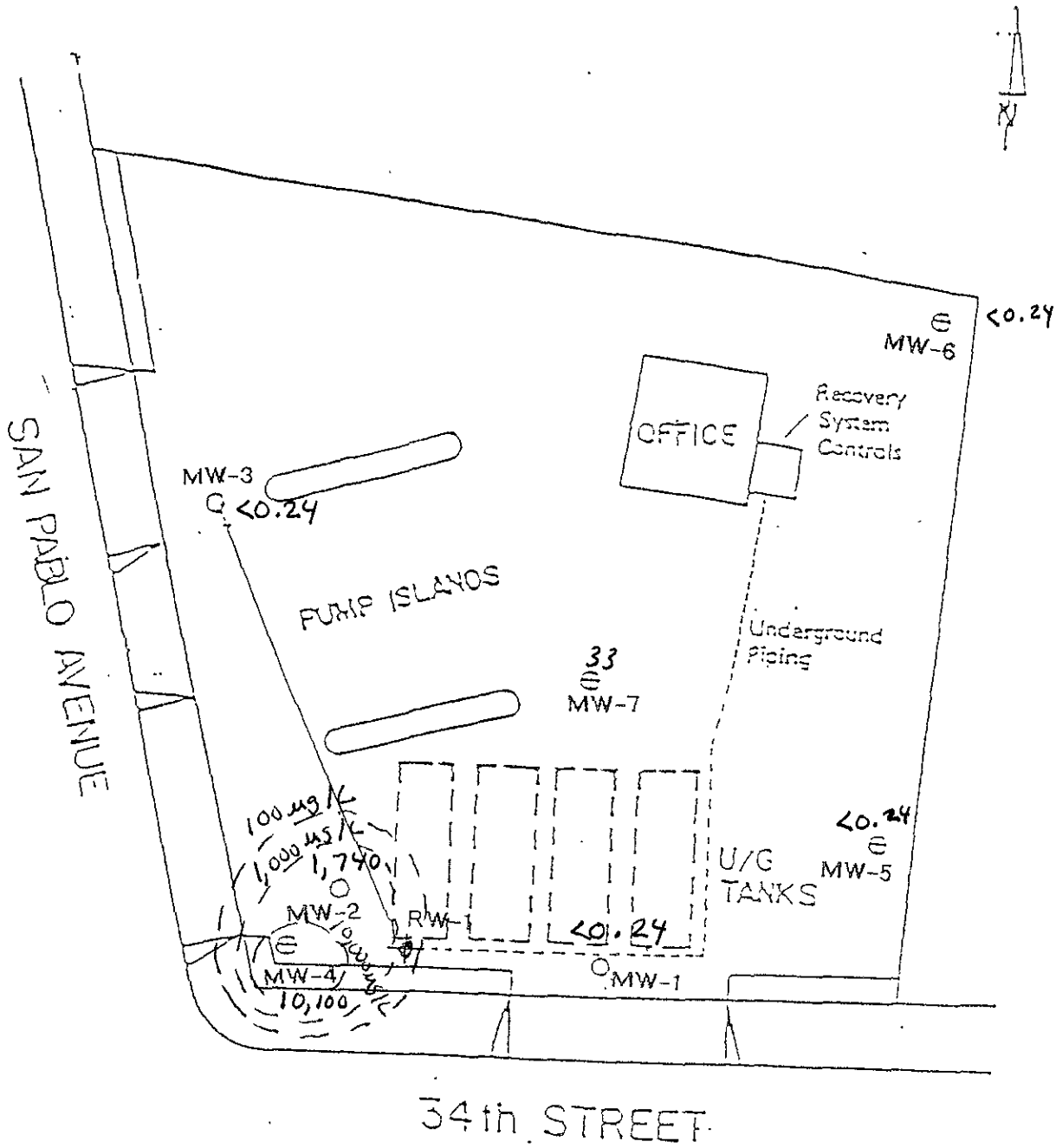
BENZENE ISOCONCENTRATION MAP ug/L
THRIFTY SERVICE STATION NO. 49
3400 SAN PABLO AVE.
OAKLAND, CA

LEGEND

O MW1 - GT MONITORING WELLS
⊖ MW-1 - WCC MONITORING WELLS
~~⊖~~ RW-1 - PROPOSED RECOVERY WELL

0 25
FEET

07/31/02



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 20
FEET

07/31/02

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
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	2 42	NP	0.00	98.03	95.61
07/31/02	<50	<0.18	1.3	<0.18	<0.26	<0.24	5.49	NP	0.00	98.03	92.54

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
04/17/02	1,470	1	<0.14	<0.18	<0.26	*2,460 / 2,080	8.45	NP	0.00	97.44	88.99
07/31/02	3,910	<0.18	1.2	<0.18	2.1	*2,090 / 1,740	9.98	NP	0.00	97.44	87.46

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
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	7.31	NP	0.00	97.69	90.38
07/31/02	138	1.1	1.2	<0.18	<0.26	<0.24	5.76	NP	0.00	97.69	91.93

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
04/17/02	12,900	8	1	<0.18	1	16,000 / 13,600	4.51	NP	0.00	97.33	92.82
07/31/02	19,300	<0.18	1 2	1.5	2.6	*13,200 / 10,100	5.26	NP	0.00	97.33	92.07

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
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4.58	NP	0.00	98.85	94.27
07/31/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	6.10	NP	0.00	98.85	92.75

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-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
04/17/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3.86	NP	0.00	99.67	95.81
07/31/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	5.40	NP	0.00	99.67	94.27

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
04/17/02	51	<0.18	<0.14	<0.18	<0.26	*58 / 45	5.53	NP	0.00	99.02	93.49
07/31/02	<50	<0 18	<0.14	<0.18	<0.26	*39 / 33	5.93	NP	0.00	99.02	93.09

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 #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	-	-
04/17/02	-	-	-	-	-	-	14.30	NP	0.00	-	-
07/31/02	-	-	-	-	-	-	14.21	NP	0.00	-	-

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)					

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

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	Total H-C Removed (lbs)	EFFLUENT (ug/L)						INFLUENT (ug/L)					
					TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
4/8/91	1,310	0	-	0 000	-	<0.3	<0.3	<0 3	<0.9	-	-	910	2000	160	2000	-
4/15/91	1,434	124	18	0.049	-	<0.3	<0 3	<0.3	<0 3	-	-	2800	4600	310	5000	-
4/22/91	1,510	200	11	0 078	-	<15	<15	<15	<45	-	-	3100	3300	<15	2800	-
4/29/91	1,660	350	21	0.137	-	<0 3	<0 3	<0 3	<0.9	-	-	3600	4500	300	5000	-
5/6/91	1,740	430	11	0.168	-	<0.3	<0 3	<0.3	<0.9	-	-	3600	3500	300	3800	-
5/13/91	1,880	570	20	0 223	-	<0.3	<0.3	<0.3	<0 9	-	-	3300	3200	230	3900	-
5/20/91	2,010	700	19	0.274	-	<0 3	<0 3	<0 3	<0 9	-	-	3300	3400	260	5100	-
5/28/91	2,050	740	5	0.290	-	<0 3	<0 3	<0 3	<0 9	-	-	2900	3000	230	4200	-
6/3/91	2,110	800	10	0 313	-	<0.3	<0 3	<0 3	<0.9	-	-	2500	2100	110	2800	-
6/10/91	2,160	850	7	0 333	-	<0 3	<0.3	<0.3	<0.9	-	-	1800	1700	120	2100	-
6/17/91	2,219	909	8	0 356	-	<0 3	<0 3	<0.3	<0 9	-	-	2100	1900	170	2700	-
6/24/91	2,263	953	6	0.373	-	<0 3	<0 3	<0 3	<0 9	-	-	2100	1800	150	2700	-
07/01/91	2,313	1,003	7	0 393	-	<0.5	<0.5	<1	<1	-	-	2,700	2,000	150	2,900	-
07/08/91	2,700	1,390	55	0 544	-	<0 5	<0.5	<1	<1	-	-	4,000	2,500	130	4,400	-
07/15/91	2,872	1,562	25	0 611	-	<0.5	<0 5	<1	<1	-	-	3,100	1,900	140	3,200	-
07/22/91	3,144	1,834	39	0.718	-	<0.5	<0 5	<1	<1	-	-	3,400	2,100	110	2,800	-
07/29/91	3,220	1,910	11	0 748	-	<0.5	<0.5	<1	<1	-	-	5,100	2,200	180	2,700	-
08/05/91	3,348	2,038	18	0 798	-	<0 5	<0 5	<1	<1	-	-	5,100	3,900	400	4,200	-
08/12/91	3,472	2,162	18	0.846	-	<0 5	<0 5	<1	<1	-	-	11,000	6,200	440	8,400	-
08/19/91	3,548	2,238	11	0 876	-	<0.5	<0 5	<1	<1	-	-	4,500	2,400	130	2,600	-
08/26/91	3,655	2,345	15	0 918	-	<0 5	<0.5	<1	<1	-	-	4,400	2,500	260	3,600	-
09/09/91	3,822	2,512	12	0.983	-	<0 5	<0 5	<1	<1	-	-	5,200	3,000	390	3,700	-
09/16/91	3,884	2,574	9	1 007	-	<0 5	<0 5	<1	<1	-	-	4,100	2,000	460	4,900	-
09/23/91	4,013	2,703	18	1 058	-	<0 5	<0.5	<1	<1	-	-	4,600	1,600	710	6,400	-
09/30/91	4,092	2,782	11	1 089	-	<0 5	<0 5	<1	<1	-	-	5,700	2,000	380	6,200	-
10/07/91	4,131	2,821	6	1.104	System shut down						-					-
10/14/91	4,195	2,885	9	1 129	-	<0 5	<0.5	<1	<1	-	-	4,400	2,000	370	8,100	-
10/21/91	4,406	3,096	30	1 212	-	<0 5	<0 5	<1	<1	-	-	2,300	1,100	190	4,200	-
10/28/91	4,474	3,164	10	1 238	-	<0.5	<0 5	<1	<1	-	-	6,400	4,100	620	6,100	-
11/03/91	4,613	3,303	23	1 293	-	<0 5	<0.5	<1	<1	-	-	6,100	2,800	200	5,600	-
11/11/91	4,700	3,390	11	1.327	-	<0 5	<0 5	<1	<1	-	-	6,500	2,300	<30	4,900	-
11/18/91	4,887	3,577	27	1 400	-	<0.5	<0.5	<1	<1	-	-	5,600	2,500	300	4,600	-
11/25/91	5,042	3,732	22	1 461	-	<0 5	<0 5	<1	<1	-	-	5,400	2,800	230	5,700	-
12/03/91	5,263	3,953	28	1.547	-	<0 5	<0 5	<1	<1	-	-	7,200	3,300	490	5,500	-
12/09/91	5,362	4,052	17	1 586	-	<0 5	<0.5	<1	<1	-	-	4,400	1,700	140	3,900	-
12/16/91	5,486	4,176	18	1 635	-	<0 5	<0 5	<0 5	<0.5	-	-	4,700	2,300	310	4,600	-
12/23/91	5,516	4,206	4	1 646	-	<0 5	<0 5	<0 5	<0 5	-	-	4,000	2,200	290	5,900	-
12/30/91	5,575	4,265	8	1.669	-	<0 5	<0.5	<0 5	<0 5	-	-	5,200	2,500	350	5,800	-
01/15/92	5,720	4,410	9	1.726	-	<0 5	<0 5	<0 5	<0.5	-	-	3,400	1,900	300	6,300	-
02/10/92	6,264	4,954	21	1 939	-	<0 5	<0.5	<0 5	<0 5	-	-	5,800	2,800	320	7,200	-
03/09/92	8,520	7,210	81	2 822	<200	<0 5	1 6	<0 5	<0 5	-	47,000	7,100	4,800	630	10,300	-

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)	Total H-C Removed (lbs)	EFFLUENT (ug/L)						INFLUENT (ug/L)					
					TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
04/13/92	22,888	21,578	411	7 369	<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	7 800	<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	8.368	<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	-	8.368	-	<0 5	<0 5	<0 5	<0.5	-	-	1,800	750	150	5,600	-
07/13/92	72,675	27,020	-	8.368	The system pumped air and flowmeter jumped from 30,000 gallons to 70,000 gallons.						-	-	-	-	-	-
08/17/92	75,046	29,391	68	8.724	-	<0.5	<0 5	<0.5	<0 5	-	-	1,100	350	200	1,100	-
09/14/92	75,582	29,927	19	8 804	-	<0 5	<0 5	<0 5	<1	-	-	2,100	520	<25	3,500	-
10/05/92	75,680	30,025	5	8 819	<200	<0 5	<0.5	<0 5	<1	-	19,000	1,700	270	<25	4,000	-
11/09/92	77,280	31,625	46	9.072	-	<0.5	<0 5	<0 5	<0 5	-	-	4,000	1,400	120	5,900	-
12/14/92	79,420	33,765	61	9 411	-	<0 5	<0 5	<0 5	<1	-	-	7,300	4,900	1,800	16,000	-
01/04/93	84,720	39,065	252	10.250	-	<0 5	<0 5	<0 5	<1	-	-	5,400	2,100	450	7,800	-
02/15/93	102,689	57,034	428	14 739	<200	<0.5	<0 5	<0 5	<1	-	41,000	6,600	3,200	260	9,600	-
02/22/93	146,430	57,034	-	14.739	The system pumped air and flowmeter jumped from 102,689 gallons to 146,430 gallons.						-	-	-	-	-	-
03/08/93	147,500	58,104	76	15.104	-	<0.5	<0 5	<0 5	<1	-	-	7,400	3,400	56	11,000	-
04/26/93	151,200	61,804	76	16 291	<100	<0 5	<0 5	<0.5	<1	-	36,000	4,300	2,200	420	8,300	-
04/26/93	151,200	61,804	-	16.291	Shut down system for repair						-	-	-	-	-	-
07/21/93	151,240	61,844	0	16 303	Restart the system						-	-	-	-	-	-
08/11/93	151,650	62,254	20	16.426	-	<0 5	<0 5	<0.5	<1	-	-	6,500	2,300	390	6,200	-
09/16/93	154,005	64,609	65	17 200	<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	17 482	<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	17.989	<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	18 233	<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	19.181	-	<0 3	<0.3	<0.3	<0 5	-	-	3,800	730	<13	1,200	-
02/03/94	170,720	81,324	153	19 752	-	<0.3	<0 3	<0 3	<0.5	-	-	3,600	610	<4.4	4,800	-
03/03/94	178,168	88,772	266	20 744	-	<0 3	<0 3	<0.3	<0 5	-	-	2,800	2,000	270	3,400	-
04/07/94	185,870	96,274	214	22 056	<50	<0 3	<0.3	<0 3	<0.5	-	28,000	2,200	550	<6 6	1,900	-
05/12/94	188,840	99,444	91	22 460	<50	<0 3	<0 3	<0 3	<0 5	-	4,600	100	10	8 4	280	-
06/16/94	194,680	105,284	167	22 684	<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	22 832	<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	22 919	<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	23 036	<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	23 089	<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	23 074	<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	23.075	<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	23 075	<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	23 075	<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	23 075	<50	<0 3	<0 3	<0 5	<0.5	-	<50	2.7	<0 3	<0 5	<0 5	-
03/10/95	208,430	119,034	19	23 076	<100	<0.5	<0.5	<0 5	<1	-	<100	<0 5	<0.5	<0 5	<1	-
04/10/95	208,564	119,168	4	23 079	<100	<0 5	<0 5	<0.5	<1	-	3,300	180	7.6	2 1	150	-
05/08/95	208,608	119,212	2	23 082	<100	<0.5	<0.5	<0 5	<1	-	11,000	640	9 2	<5	1,100	-
06/05/95	208,926	119,530	11	23 103	<100	<0 5	<0 5	<0.5	<1	-	5,100	270	2 2	<0 5	49	-

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)	Total H-C Removed (lbs)	EFFLUENT (ug/L)						INFLUENT (ug/L)					
					TPH-g	B	T	E	X	MTBE	TPH-g	B	T	E	X	MTBE
07/11/01	310,010 0	601,428	3,565	341.855	<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	518.940	-	-	-	-	-	-	-	-	-	-	-	-
09/28/01	498,310.0	789,728	1,358	595 894	-	-	-	-	-	-	-	-	-	-	-	-
10/03/01	503,930 0	795,348	1,124	600.424	<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	642.733	-	-	-	-	-	-	-	-	-	-	-	-
12/28/01	706,300.0	997,718	904	653 680	-	-	-	-	-	-	-	-	-	-	-	-
01/11/02	721,050.0	1,012,468	1,054	657.562	System shut down for carbon replacement											
01/21/02	721,050 0	1,012,468	-	657 562	Restart the system											
02/01/02	731,320.0	1,022,738	934	658.963	<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	659 159	-	-	-	-	-	-	-	-	-	-	-	-
03/27/02	813,240 0	1,104,658	1,876	659 763	-	-	-	-	-	-	-	-	-	-	-	-
04/12/02	835,170 0	1,126,588	1,371	660 975	<50	<0 18	<0 14	<0 18	<0 26	<0.24	12,100	5	1	<0 18	<0 26	18,400
04/26/02	918,670 0	1,210,088	5,964	669 389	System shut down											
05/10/02	918,680 0	1,210,098	1	669 390	Restart											
05/17/02	928,670 0	1,220,088	1,427	670 397	-	-	-	-	-	-	-	-	-	-	-	-
06/07/02	971,240 0	1,262,658	2,027	674 686	<50	<0 18	<0 14	<0 18	<0.26	<0 24	-	-	-	-	-	-
06/28/02	1,012,150 0	1,303,568	1,948	678.809	-	-	-	-	-	-	-	-	-	-	-	-
07/15/02	1,045,670 0	1,337,088	1,972	681.977	<50	<0 18	<0.14	<0 18	<0 26	3 3 J	10,600	<0 18	<0 14	<0 18	<0 26	10,000
07/31/02	1,052,380 0	1,343,798	419	682 569	System shut down for carbon replacement											
08/16/02	1,052,390 0	1,343,808	1	682 569	Restart											
08/30/02	1,057,310 0	1,348,728	351	683.004	-	-	-	-	-	-	-	-	-	-	-	-
09/20/02	1,061,730 0	1,353,148	210	683 394	<50	<0.1	<0 15	<0 06	-	-	Outlet sampling done by inspector (EPA Method 624)					
09/27/02	1,064,020 0	1,355,438	327	683 596	-	-	-	-	-	-	-	-	-	-	-	-
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
Total Hydrocarbons Removed = From 4/8/91 to 2/10/92, the influent TPHg is assumed to be 47,000 (3/9/92)

APPENDIX A

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT STATUS REPORT
THRIFTY OIL CO. S.S. #049
3400 SAN PABLO AVENUE
CA
DATE: 07.31.02

OBSERVATION WELLS

NO.	DTW	DTP	PT		DTB	DIA.	ODORS			F/P			
MONTHLY							YES	NO	S	YES	NO		
MW-1	5.49				17.75	2"		X			X	-	-
MW-2	9.98				23.78	2"		X			X	-	-
MW-3	5.76				24.16	2"		X			X	-	-
MW-4	5.20				13.68	4"		X			X	-	-
MW-5	6.10				13.76	2"		X			X	-	-
MW-6	5.40				13.08	2"		X			X	-	-
MW-7	5.93				13.58	4"		X			X	-	-
RW-1	14.21				24.40	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: R. W. S.	
FREE PRODUCT REMOVED: APPROX. — GALLONS	WATER REMOVED: APPROX. 81 GALLONS
DATA RECORDED BY: [signature]	INPUT BY: C.D.

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	049	Date:	07.31.02
Address:			
Personnel:	JERBAI,	Weather:	SUNNY DAY
Well No:	MW-1	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	17.75	Well Diameter	2"
Depth to Water (ft)	5.49	Est. Purge Volume:	8

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	9:03	9:04	9:05	9:06	9:07	9:08	9:10
EC	670	670	660	640	630	640	660
pH	5.27	5.28	5.27	5.28	5.23	5.26	5.23
Temp	21.7	21.7	21.4	21.3	21.2	21.1	21.1
Gal.	1	2	3	4	5	6	8

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	8.05	Total Well Depth(ft).	17.75

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	044	Date:	07.31.02
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)	9.98	Est. Purge Volume:	9

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	10:42	10:43	10:44	10:46	10:47	10:48	10:50
EC	780	740	730	710	700	710	710
pH	6.08	6.06	6.08	6.12	6.11	6.09	6.09
Temp	21.1	21.0	21.1	20.9	20.8	20.7	20.6
Gal.	1	2	3	5	6	7	9

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:	07.31.02
Address:			
Personnel:	JERBAR,	Weather:	SUNNY DAY
Well No:	MW-3	Equip:	BAILER

Before Purging:

Total Well Depth: (ft.)	24.16	Well Diameter	2"
Depth to Water (ft)	5.76 /	Est. Purge Volume:	12

Sampling Data:

Initial Turbidity:				Final Turbidity:			
Time	9:14	9:16	9:18	9:19	9:21	9:23	9:25
EC	1520	1540	1530	1510	1530	1520	1530
pH	6.23	6.26	6.25	6.26	6.28	6.27	6.26
Temp	21.4	21.2	21.2	20.9	20.8	20.8	20.7
Gal.	1	3	5	6	8	10	12

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection

Depth to Water (ft.)	9.20	Total Well Depth(ft).	24.16

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	049	Date:	07-31-02
Address:			
Personnel:	BERRA	Weather:	SUNNY DAY
Well No:	MW-4	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	13.68	Well Diameter	4"
Depth to Water (ft)	5.26	Est. Purge Volume:	22

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	10:16	10:19	10:22	10:25	10:28	10:31	10:35
EC	1010	990	970	980	980	960	980
pH	6.18	6.27	6.25	6.24	6.26	6.24	6.26
Temp	21.3	21.1	21.1	20.8	20.7	20.6	20.6
Gal.	3	6	9	12	15	18	22

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	7.22	Total Well Depth(ft).	13.68

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	OH9	Date:	07.31.01
Address:			
Personnel:	SERBAN,	Weather:	SUNNY
Well No:	MW-5	Equip:	BAILER

Before Purging:			
Total Well Depth: (ft.)	13.76	Well Diameter	2"
Depth to Water (ft)	6.10	Est. Purge Volume:	5

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	8:54	8:55	8:56	8:57	8:58	8:59	9:00
EC	690	670	680	690	670	680	680
pH	6.21	6.28	6.24	6.21	6.20	6.21	6.20
Temp	21.4	21.2	21.2	20.9	20.7	20.7	20.5
Gal.	0.5	1.5	2	2.5	3	4	5

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection			
Depth to Water (ft.)	8.04	Total Well Depth(ft).	13.76

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	049	Date:	07-31-02
Address:			
Personnel:	SERBAN,	Weather:	SUNNY DAY
Well No:	MW-6	Equip:	BAILER

Before Purging:

Total Well Depth: (ft.)	13.06	Well Diameter	2"
Depth to Water (ft)	5.40	Est. Purge Volume:	5

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	9:34	9:35	9:36	9:37	9:38	9:39	9:40
EC	680	690	700	730	710	730	720
pH	6.23	6.27	6.24	6.24	6.22	6.22	6.24
Temp	21.3	21.2	21.1	20.8	20.7	20.6	20.5
Gal.	0.5	1.5	2	2.5	3	4	5

Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection

Depth to Water (ft.) 7.10 Total Well Depth(ft). 13.06

FIELD DATA -GROUNDWATER SAMPLING PROGRAM

Site:	046	Date:	07.31.02
Address:			
Personnel:	SERBAN	Weather:	SUNNY DAY
Well No:	MW-7	Equip:	BAILER

Before Purging:

Total Well Depth: (ft.)	13.58	Well Diameter	4"
Depth to Water (ft)	5.93	Est. Purge Volume:	20

Sampling Data:

Initial Turbidity: Final Turbidity:

Time	9:52	9:55	9:58	10:01	10:04	10:07	10:10
EC	930	910	920	960	920	960	920
pH	6.24	6.29	6.24	6.22	6.26	6.25	6.24
Temp	21.1	20.9	20.9	20.6	20.4	20.4	20.5
Gal.	2	5	8	11	14	17	20
Time							
EC							
pH							
Temp							
Gal.							

After Purging/Before Sample Collection

Depth to Water (ft.)	7.12	Total Well Depth(ft).	13.58

APPENDIX B

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

FAX 714/538-1209

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

LAB REQUEST 96949
REPORTED 08/13/2002
RECEIVED 08/01/2002

PROJECT Station #049
3400 San Pablo Ave., Oakland

SUBMITTER Client

COMMENTS Global ID: T0600101366

*Matrix Interference

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
368364	TOC #049, MW-5
368365	TOC #049, MW-1
368366	TOC #049, MW-3
368367	TOC #049, MW-6
368368	TOC #049, MW-7
368369	TOC #049, MW-4
368370	TOC #049, MW-2
368371	TOC #049, Trip Blank
368372	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.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 368364 **Client Sample ID:** TOC #049, MW-5
Matrix: WATER **Date Sampled:** 07/31/2002 **Time Sampled:** 13:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.18	ug/L	08/03/02 LZ
Ethyl benzene	ND	1	0.3	0.18	ug/L	08/03/02 LZ
Methyl t - butyl ether	ND	1	5	0.24	ug/L	08/03/02 LZ
Toluene	ND	1	0.3	0.14	ug/L	08/03/02 LZ
Xylene (total)	ND	1	0.6	0.26	ug/L	08/03/02 LZ
8015M - Total Petroleum Hydrocarbons						
Gasoline	ND	1	50	50	ug/L	08/03/02 LZ
Surrogates					**Units**	**Control Limits**
a,a,a-Trifluorotoluene	90				%	70 - 130

Order #: 368365 **Client Sample ID:** TOC #049, MW-1
Matrix: WATER **Date Sampled:** 07/31/2002 **Time Sampled:** 13:05

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.18	ug/L	08/03/02 LZ
Ethyl benzene	ND	1	0.3	0.18	ug/L	08/03/02 LZ
Methyl t - butyl ether	ND	1	5	0.24	ug/L	08/03/02 LZ
Toluene	1.3	1	0.3	0.14	ug/L	08/03/02 LZ
Xylene (total)	ND	1	0.6	0.26	ug/L	08/03/02 LZ
8015M - Total Petroleum Hydrocarbons						
Gasoline	ND	1	50	50	ug/L	08/03/02 LZ
Surrogates					**Units**	**Control Limits**
a,a,a-Trifluorotoluene	92				%	70 - 130

Order #: 368366 **Client Sample ID:** TOC #049, MW-3
Matrix: WATER **Date Sampled:** 07/31/2002 **Time Sampled:** 13:15

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	1.1	1	0.3	0.18 ug/L	08/04/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L	08/04/02 LZ
Methyl t - butyl ether	ND	1	5	0.24 ug/L	08/04/02 LZ
Toluene	1.2	1	0.3	0.14 ug/L	08/04/02 LZ
Xylene (total)	ND	1	0.6	0.26 ug/L	08/04/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	138	1	50	50 ug/L	08/04/02 LZ

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	91	%	70 - 130

Order #: 368367
Matrix: WATER

Client Sample ID: TOC #049, MW-6
Date Sampled: 07/31/2002 **Time Sampled:** 13:25

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	08/04/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L	08/04/02 LZ
Methyl t - butyl ether	ND	1	5	0.24 ug/L	08/04/02 LZ
Toluene	ND	1	0.3	0.14 ug/L	08/04/02 LZ
Xylene (total)	ND	1	0.6	0.26 ug/L	08/04/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	08/04/02 LZ

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	90	%	70 - 130

Order #: 368368
Matrix: WATER

Client Sample ID: TOC #049, MW-7
Date Sampled: 07/31/2002 **Time Sampled:** 13:35

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	08/04/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L	08/04/02 LZ
Methyl t - butyl ether	39	1	5	0.24 ug/L	08/04/02 LZ
Toluene	ND	1	0.3	0.14 ug/L	08/04/02 LZ
Xylene (total)	ND	1	0.6	0.26 ug/L	08/04/02 LZ

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	33	1	1	0.6 ug/L	08/09/02 LB

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	08/04/02 LZ

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	92	%	70 - 130

Order #: 368369 **Client Sample ID** TOC #049, MW-4
Matrix: WATER **Date Sampled:** 07/31/2002 **Time Sampled:** 13:40

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18 ug/L	08/04/02 LZ
Ethyl benzene	1.5	1	0.3	0.18 ug/L	08/04/02 LZ
Methyl t - butyl ether	13,200	200	1000.0	0.24 ug/L	08/05/02 LZ
Toluene	1.2	1	0.3	0.14 ug/L	08/04/02 LZ
Xylene (total)	2.6	1	0.6	0.26 ug/L	08/04/02 LZ

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	10,100	100	100.0	0.6 ug/L	08/12/02 LB

8015M - Total Petroleum Hydrocarbons

Gasoline	19,300	200	10000.0	50 ug/L	08/05/02 LZ

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	183 *	%	70 - 130

Order #: 368370 **Client Sample ID** TOC #049, MW-2
Matrix: WATER **Date Sampled:** 07/31/2002 **Time Sampled:** 13:45

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	08/04/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L	08/04/02 LZ
Methyl t - butyl ether	2,090	50	250.0	0.24 ug/L	08/05/02 LZ
Toluene	1.2	1	0.3	0.14 ug/L	08/04/02 LZ
Xylene (total)	2.1	1	0.6	0.26 ug/L	08/04/02 LZ

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	1,740	10	10.0	0.6 ug/L	08/09/02 LB

8015M - Total Petroleum Hydrocarbons

Gasoline	3,910	50	2500.0	50 ug/L	08/04/02 LZ

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	92	%	70 - 130

Order #: 368371 **Client Sample ID** TOC #049, Trip Blank
Matrix: WATER **Date Sampled:** 07/31/2002 **Time Sampled:** 13:00

8021B BTEX + MTBE

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
Benzene	ND	1	0.3	0.18	ug/L	08/04/02 LZ
Ethyl benzene	ND	1	0.3	0.18	ug/L	08/04/02 LZ
Methyl t - butyl ether	ND	1	5	0.24	ug/L	08/04/02 LZ
Toluene	ND	1	0.3	0.14	ug/L	08/04/02 LZ
Xylene (total)	ND	1	0.6	0.26	ug/L	08/04/02 LZ

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	08/04/02 LZ

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	91	%	70 - 130

Order #: 368372 **Client Sample ID** Laboratory Method Blank
Matrix: WATER

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	08/04/02 LZ
Ethyl benzene	ND	1	0.3	0.18 ug/L	08/04/02 LZ
Methyl t - butyl ether	ND	1	5	0.24 ug/L	08/04/02 LZ
Toluene	ND	1	0.3	0.14 ug/L	08/04/02 LZ
Xylene (total)	ND	1	0.6	0.26 ug/L	08/04/02 LZ

8260B BTEX/MTBE Only

Methyl-tert-butylether (MTBE)	ND	1	1	0.6 ug/L	08/09/02 LB

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	50	50 ug/L	08/04/02 LZ

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
13116 Imperial Hwy.
P.O. Box 2128
Santa Fe Springs, CA 90670

Lab Request: 96949
Date Received: 8/1/2002
Print Date: 08/20/2002

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

Objectives: *Confirm by EPA method 8260B.

Sample ID.	Gasoline	Benzene	Toluene	Ethyl benzene	Xylene (total)	MTBE	MTBE by EPA8260
Laboratory	ND	ND	ND	ND	ND	ND	ND
TOC #049,	ND	ND	1.3 ug/L	ND	ND	ND	
TOC #049,	3,910 ug/L	ND	1.2 ug/L	ND	2.1 ug/L	2,090 ug/L	1,740 ug/L
TOC #049,	138 ug/L	1.1 ug/L	1.2 ug/L	ND	ND	ND	
TOC #049,	19,300 ug/L	ND	1.2 ug/L	1.5 ug/L	2.6 ug/L	13,200 ug/L	10,100 ug/L
TOC #049,	ND	ND	ND	ND	ND	ND	
TOC #049,	ND	ND	ND	ND	ND	ND	
TOC #049,	ND	ND	ND	ND	ND	39 ug/L	33 ug/L
TOC #049, Trip	ND	ND	ND	ND	ND	ND	

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

a,a,a-Trifluo rotoluene
90 %
92 %
92 %
91 %
183 * %
90 %
90 %
92 %
91 %

ASSOCIATED LABORATORIES LAB REQUEST RESULTS SUMMARY

Client: Thrifty Oil
Jeff Suryakusuma
13116 Imperial Hwy.
P.O. Box 2128
Santa Fe Springs, CA 90670

Lab Request: 96949
Date Received: 8/1/2002
Print Date: 08/13/2002

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

Objectives: *Confirm by EPA method 8260B.

Sample ID.	Gasoline	Benzene	Toluene	Ethyl benzene	Xylene (total)	MTBE	MTBE by EPA8260
Laboratory	ND	ND	ND	ND	ND	ND	ND
TOC #044,	ND	ND	1.3 ug/L	ND	ND	ND	
TOC #044,	3,910 ug/L	ND	1.2 ug/L	ND	2.1 ug/L	2,090 ug/L	1,740 ug/L
TOC #044,	138 ug/L	1.1 ug/L	1.2 ug/L	ND	ND	ND	
TOC #044,	19,300 ug/L	ND	1.2 ug/L	1.5 ug/L	2.6 ug/L	13,200 ug/L	10,100 ug/L
TOC #044,	ND	ND	ND	ND	ND	ND	
TOC #044,	ND	ND	ND	ND	ND	ND	
TOC #044,	ND	ND	ND	ND	ND	39 ug/L	33 ug/L
TOC #044, Trip	ND	ND	ND	ND	ND	ND	

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

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 08/10/02

Applies to: LR 97163, 96949

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	46.00	42.13	92	84	9	22	59-172
MTBE	ND	50	47.93	45.39	96	91	5	24	62-137
Benzene	ND	50	47.35	47.09	95	94	1	24	62-137
Trichloroethene	ND	50	48.21	46.16	96	92	4	21	66-142
Toluene	ND	50	47.11	44.94	94	90	5	21	59-139
Chlorobenzene	ND	50	46.87	45.20	94	90	4	21	60-133

QC Sample: LCS # 1, 10:50 am
Analysis Date: 08/09/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	51.91	104	59-172
MTBE	ND	50	53.40	107	62-137
Benzene	ND	50	53.89	108	62-137
Trichloroethene	ND	50	48.06	96	66-142
Toluene	ND	50	46.81	94	59-139
Chlorobenzene	ND	50	48.13	96	60-133

QC Sample: LCS # 2, 10:00 pm
Analysis Date: 08/09/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	43.20	86	59-172
MTBE	ND	50	47.85	96	62-137
Benzene	ND	50	47.75	96	62-137
Trichloroethene	ND	50	44.65	89	66-142
Toluene	ND	50	46.83	94	59-139
Chlorobenzene	ND	50	46.81	94	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compounds	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	96	102	99	100
LCSD	96	96	98	110
BLANK # 1	100	99	98	108
BLANK # 2	94	94	105	108
LCS # 1	100	104	92	110
LCS # 2	98	100	98	108

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 08/13/02

Applies to: LR 96949

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	48.28	47.18	97	94	2	22	59-172
MTBE	ND	50	45.87	46.17	92	92	1	24	62-137
Benzene	ND	50	48.95	46.75	98	93	5	24	62-137
Trichloroethene	ND	50	48.22	46.41	96	93	4	21	66-142
Toluene	ND	50	45.40	44.83	91	90	1	21	59-139
Chlorobenzene	ND	50	42.48	44.13	85	88	4	21	60-133

QC Sample: LCS # 1, 10:30 am
Analysis Date: 08/12/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	35.70	71	59-172
MTBE	ND	50	49.27	99	62-137
Benzene	ND	50	47.45	95	62-137
Trichloroethene	ND	50	42.01	84	66-142
Toluene	ND	50	43.87	88	59-139
Chlorobenzene	ND	50	45.38	91	60-133

QC Sample: LCS # 2, 10:20 pm
Analysis Date: 08/12/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	46.90	94	59-172
MTBE	ND	50	47.05	94	62-137
Benzene	ND	50	47.58	95	62-137
Trichloroethene	ND	50	46.01	92	66-142
Toluene	ND	50	45.82	92	59-139
Chlorobenzene	ND	50	44.99	90	60-133

Method Blank = All ND

SURROGATE (QC Limits : 70-135)

Compounds	DBFM	1,2-DCA	Tol-d8	p-BFB
LCS	99	101	95	111
LCSD	97	102	96	104
BLANK # 1	91	93	102	115
BLANK # 2	94	95	102	111
LCS # 1	100	100	96	105
LCS # 2	98	103	94	107

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 96929-304

Matrix: WATER

Prep. Date: 08/03/02

Analysis Date: 08/03/02

LAB ID#'s in Batch: LR 96949, 96947

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	20	14	15	70	75	7
Toluene	8021	ND	20	15	16	75	80	6
Ethylbenzene	8021	ND	20	19	20	95	100	5
Xylenes	8021	ND	40	36	37	90	93	3

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	16	20	80	80%	120%
Toluene	8021	ND	16	20	80	80%	120%
Ethylbenzene	8021	ND	19	20	95	80%	120%
Xylenes	8021	ND	39	40	98	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	55-156
QA Sample	89
MS	99
MSD	99
Method Blank	90
LCS	99

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 96929-303

Matrix: WATER

Prep. Date: 08/03/02

Analysis Date: 08/04/02

ID#'s in Batch: LR 96929, 96949, 96947, 96984

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	400	384	449	96	112	16

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	549	500	110	80%	120%

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

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-156
QA Sample	92
MS	118
MSD	119
Method Blank	90
LCS	125

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

A.L. Job No. 96949   Page 1 of 1

Company	THRIFTY OIL CO.
Phone	(562) 921-3581
Project Manager	JEFF SURYAKUSUMA
Fax	(562) 921-7510
Project Name	Q. W. S.
Project #	044
Site Name and Address	3400 SAN PABLO AVE OAKLAND, CA 94612

Test Instructions & Comments: T0600101366

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH	BTEX	*MTBE							Test Instructions & Comments
1	MW5		07-31-02	13:00	H_2O	3VOA	HCL	X	X	X							* CONFIRM BY EPA
2	MW 1		↕	13:05	↕	↕	↕	X	X	X							METHOD 8260B
3	MW 3			13:15				X	X	X							
4	MW 6			13:25				X	X	X							
5	MW 7			13:35				X	X	X							
6	MW 4			13:40				X	X	X							
7	MW 2			13:45				X	X	X							
8	TRIP BLANK			13:00		2VOA		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
Custody Seals Y / N / (NA)		Samples Intact	(Y) / N / NA
Received in Good Condition	(Y) / N	Samples Accepted	(Y) / N

Turn Around Time

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

Relinquished by Sampler: 1.	Relinquished by 2.	Relinquished by 3.
SERBAN	GOLDEN STATE	
Signature: [signature]	Signature:	Signature:
Printed Name: SERBAN POPESCU	Printed Name:	Printed Name:
Date: 07.31.02 Time: 17:30	Date: Time:	Date: Time:
Received By: 1. GOLDEN STATE	**Received By:** 2.	**Received By:** 3.
Signature: [signature]	Signature:	Signature:
Printed Name: DARADO	Printed Name:	Printed Name:
Date: 8/1/02 Time: 11:30	Date: Time:	Date: Time:

APPENDIX C

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERRATO/PEDRO

DATE OF INSPECTION: 9-27-02

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

FLOW METER READING: -1064020-

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 #649

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBANDO PEREZ

DATE OF INSPECTION: 09.2002

OBSERVATIONS AND COMMENTS: ADD OIL, CLEAN WATER FILTER BAG, DRAIN COMPRESSOR, CHECK BELT, HOSES, DRUMS, REPLACE CARTRIDGE WATER FILTER, INSPECTOR TAKE WATER SAMPLING FROM OUTLET,

FLOW METER READING: -106730-

SAMPLES OBTAINED: YES, OUTLET SAMPLING

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: 0.7

INSPECTOR'S SIGNATURE: [signature]

049

THRIFTY OIL CO. SERVICE STATION #49

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBANOPESCU

DATE OF INSPECTION: 09.13.02

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

FLOW METER READING: – 1063420 –

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: 0.7

INSPECTOR'S SIGNATURE: [signature]

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERRAPOPEDU

DATE OF INSPECTION: 09.06.02

OBSERVATIONS AND COMMENTS: Hold oil, check belt, hoses, replace air filter element, replace cartrige water filter, clean water filter bag.

FLOW METER READING: -1059530-

SAMPLES OBTAINED: N/A

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 13

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: 4

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: SERGIO PORTILLO

DATE OF INSPECTION: 08.30.02

OBSERVATIONS AND COMMENTS: Added oil, clean water filter bag, replace cartridge water filter, check belt, hoses.

I found system shut down. After I ask the manager he tell me electricity was out Tu. 20.02, the system don't restart again.

FLOW METER READING: -105736-

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]

EARTH MANAGEMENT CO.
Environmental Remediation

049

DATE: 08.16.02

START-UP/SHUT DOWN REPORT

STATION NO.: 049

SYSTEM TYPE: G-W CARBON

START-UP REPORT:
RESTART AFTER THE 3 CARBONS DRUMS WAS FILLED WITH CLEAN WATER AND SET FOR 48 hours THIS ALLOWS CARBON BECOME WETTED -

FLOW — 1052390 —

SHUT DOWN REPORT:

SIGNATURE: _____

PRINT NAME: _____

EARTH MANAGEMENT CO.
Environmental Remediation

(049)

DATE: 07.31.02

START-UP/SHUT DOWN REPORT

STATION NO.: 049

SYSTEM TYPE: CARBON

START-UP REPORT:

SHUT DOWN REPORT:
SYSTEM SHUT DOWN FOR REPLACE CARBON.
FLOW - 1052380 -

SIGNATURE:

13415 Carmenita Road/P.O. Box 2129, Santa Fe Springs, CA 90670

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 07.26-02

OBSERVATIONS AND COMMENTS: CHECK O/L, BELT, REPLACE CARTRIGS WATER FILTER, CLEAN WATER FILTER BAG, CHECK HOSSES, DRUMS CONNECTIONS.

FLOW METER READING: —1051470—

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]

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBANDOSA

DATE OF INSPECTION: 07.19.02

OBSERVATIONS AND COMMENTS: CHANGE OIL, CHANGE SEDIMENT FILTER

IN BOX CONTROL,

FLOW METER READING: 1046780

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: [signature]

049

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBANDERSEN

DATE OF INSPECTION: 07.15.02

OBSERVATIONS AND COMMENTS: Add oil, clean water bag filter replace cartridge water filter, check belt, bearings, chains,

FLOW METER READING: -1045670-

SAMPLES OBTAINED: 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: S E

049

THRIFTY OIL CO. SERVICE STATION # 044

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBAN POPESCU

DATE OF INSPECTION: 07.05.02

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

FLOW METER READING: - 1034260 -

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: R Popescu

THRIFTY OIL CO. SERVICE STATION #049

GROUNDWATER EXTRACTION/TREATMENT SYSTEM INSPECTION FORM

NAME OF INSPECTOR: SERBANDEZ

DATE OF INSPECTION: 06.28.02

OBSERVATIONS AND COMMENTS: Add oil, replace cartridge water filters clean water filter bag, check drums, hoses,

FLOW METER READING: -1012150 -

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: 0.9

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

LAB REQUEST 99469
REPORTED 10/02/2002
RECEIVED 09/21/2002

PROJECT Station #049

SUBMITTER Client

COMMENTS

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

Order No.	Client Sample Identification
379819	TOC #049, Outlet
379820	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.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 379819 **Client Sample ID**: TOC #049, Outlet

Matrix: WATER

Date Sampled: 09/20/2002
Time Sampled: 09:20

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
624 Volatile Organic Compounds by GC/MS						
1,1,1-Trichloroethane	ND	1	5	0.13	ug/L	09/27/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	0.14	ug/L	09/27/02 DP
1,1,2-Trichloroethane	ND	1	5	0.30	ug/L	09/27/02 DP
1,1-Dichloroethane	ND	1	5	0.14	ug/L	09/27/02 DP
1,1-Dichloroethene	ND	1	5	0.11	ug/L	09/27/02 DP
1,2-Dichlorobenzene	ND	1	5	0.14	ug/L	09/27/02 DP
1,2-Dichloroethane	ND	1	5	0.14	ug/L	09/27/02 DP
1,2-Dichloropropane	ND	1	5	0.17	ug/L	09/27/02 DP
1,3-Dichlorobenzene	ND	1	5	0.10	ug/L	09/27/02 DP
1,4-Dichlorobenzene	ND	1	5	0.66	ug/L	09/27/02 DP
2-Chloroethylvinyl ether	ND	1	10	2.00	ug/L	09/27/02 DP
Acrolein	ND	1	10	5.7	ug/L	09/27/02 DP
Acrylonitrile	ND	1	10	3.1	ug/L	09/27/02 DP
Benzene	ND	1	5	0.10	ug/L	09/27/02 DP
Bromodichloromethane	ND	1	5	0.11	ug/L	09/27/02 DP
Bromoform	ND	1	5	0.24	ug/L	09/27/02 DP
Bromomethane	ND	1	10	0.32	ug/L	09/27/02 DP
Carbon tetrachloride	ND	1	5	0.13	ug/L	09/27/02 DP
Chlorobenzene	ND	1	5	0.34	ug/L	09/27/02 DP
Chloroethane	ND	1	10	0.65	ug/L	09/27/02 DP
Chloroform	ND	1	5	0.10	ug/L	09/27/02 DP
Chloromethane	ND	1	10	0.54	ug/L	09/27/02 DP
Dibromochloromethane	ND	1	5	0.22	ug/L	09/27/02 DP
Ethyl benzene	ND	1	5	0.06	ug/L	09/27/02 DP
Methylene chloride	ND	1	5	0.15	ug/L	09/27/02 DP
Tetrachloroethene	ND	1	5	0.11	ug/L	09/27/02 DP
Toluene	ND	1	5	0.15	ug/L	09/27/02 DP
Trichloroethene	ND	1	5	0.13	ug/L	09/27/02 DP
Trichlorofluoromethane	ND	1	5	0.61	ug/L	09/27/02 DP
Vinyl chloride	ND	1	10	0.21	ug/L	09/27/02 DP
cis-1,3-Dichloropropene	ND	1	5	0.13	ug/L	09/27/02 DP
trans-1,2-Dichloroethene	ND	1	5	0.18	ug/L	09/27/02 DP
trans-1,3-Dichloropropene	ND	1	5	0.19	ug/L	09/27/02 DP

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

Order #: 379819 **Client Sample ID:** TOC #049, Outlet

Matrix: WATER

Date Sampled: 09/20/2002
Time Sampled: 09:20

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8015M - Total Petroleum Hydrocarbons						
Gasoline	ND	1	50	50	ug/L	09/25/02 LZ

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

Order #: 379820 **Client Sample ID**: Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
624 Volatile Organic Compounds by GC/MS						
1,1,1-Trichloroethane	ND	1	5	0.13	ug/L	09/27/02 DP
1,1,2,2-Tetrachloroethane	ND	1	5	0.14	ug/L	09/27/02 DP
1,1,2-Trichloroethane	ND	1	5	0.30	ug/L	09/27/02 DP
1,1-Dichloroethane	ND	1	5	0.14	ug/L	09/27/02 DP
1,1-Dichloroethene	ND	1	5	0.11	ug/L	09/27/02 DP
1,2-Dichlorobenzene	ND	1	5	0.14	ug/L	09/27/02 DP
1,2-Dichloroethane	ND	1	5	0.14	ug/L	09/27/02 DP
1,2-Dichloropropane	ND	1	5	0.17	ug/L	09/27/02 DP
1,3-Dichlorobenzene	ND	1	5	0.10	ug/L	09/27/02 DP
1,4-Dichlorobenzene	ND	1	5	0.66	ug/L	09/27/02 DP
2-Chloroethylvinyl ether	ND	1	10	2.00	ug/L	09/27/02 DP
Acrolein	ND	1	10	5.7	ug/L	09/27/02 DP
Acrylonitrile	ND	1	10	3.1	ug/L	09/27/02 DP
Benzene	ND	1	5	0.10	ug/L	09/27/02 DP
Bromodichloromethane	ND	1	5	0.11	ug/L	09/27/02 DP
Bromoform	ND	1	5	0.24	ug/L	09/27/02 DP
Bromomethane	ND	1	10	0.32	ug/L	09/27/02 DP
Carbon tetrachloride	ND	1	5	0.13	ug/L	09/27/02 DP
Chlorobenzene	ND	1	5	0.34	ug/L	09/27/02 DP
Chloroethane	ND	1	10	0.65	ug/L	09/27/02 DP
Chloroform	ND	1	5	0.10	ug/L	09/27/02 DP
Chloromethane	ND	1	10	0.54	ug/L	09/27/02 DP
Dibromochloromethane	ND	1	5	0.22	ug/L	09/27/02 DP
Ethyl benzene	ND	1	5	0.06	ug/L	09/27/02 DP
Methylene chloride	ND	1	5	0.15	ug/L	09/27/02 DP
Tetrachloroethene	ND	1	5	0.11	ug/L	09/27/02 DP
Toluene	ND	1	5	0.15	ug/L	09/27/02 DP
Trichloroethene	ND	1	5	0.13	ug/L	09/27/02 DP
Trichlorofluoromethane	ND	1	5	0.61	ug/L	09/27/02 DP
Vinyl chloride	ND	1	10	0.21	ug/L	09/27/02 DP
cis-1,3-Dichloropropene	ND	1	5	0.13	ug/L	09/27/02 DP
trans-1,2-Dichloroethene	ND	1	5	0.18	ug/L	09/27/02 DP
trans-1,3-Dichloropropene	ND	1	5	0.19	ug/L	09/27/02 DP

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

Order #: 379820 **Client Sample ID** Laboratory Method Blank

Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8015M - Total Petroleum Hydrocarbons						
Gasoline	ND	1	50	50	ug/L	09/25/02 LZ

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 092502

Matrix: WATER

Prep. Date: 09/25/02

Analysis Date 09/25/02

ID#'s in Batch: LR 99474, 99491, 99469

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	558	549	112	110	2

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	**55-156**
Method Blank	96
LCS	**186 ***
LCSD	**183 ***

AAA-TFT = a,a,a-Trifluorotoluene

*** Outside QC Limits**

ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Water Samples

Analysis Date: 09/27/02

Applies to: LR 99470, 99469

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	47.94	51.25	96	103	7	22	59-172
MTBE	ND	50	44.52	45.67	89	91	3	24	62-137
Benzene	ND	50	48.17	50.62	96	101	5	24	62-137
Trichloroethene	ND	50	52.60	53.92	105	108	2	21	66-142
Toluene	ND	50	49.47	50.13	99	100	1	21	59-139
Chlorobenzene	ND	50	47.42	49.83	95	100	5	21	60-133

QC Sample: LCS # 4, 10:00 am
Analysis Date: 09/27/02

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	58.34	117	59-172
MTBE	ND	50	44.13	88	62-137
Benzene	ND	50	48.39	97	62-137
Trichloroethene	ND	50	57.44	115	66-142
Toluene	ND	50	50.85	102	59-139
Chlorobenzene	ND	50	50.21	100	60-133

Method Blank = All ND

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 SUKYAKUSUMA	Fax	(562) 921-7540
Project Name	System sampling	Project #	049
Site Name and Address	T.O.C. # 049		

A.L. Job No. 99469 Page ____ of ____

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	Analysis Requested: 6 TPH	2 BTEX	4 8015	Test Instructions & Comments
1	OUTLET		09.20.02	9:20	H_2O	3 VOA	HCL	X	X		
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers	3	Properly Cooled Y / N / NA	
Custody Seals Y / N / NA	NA	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:	JERRY PODEDW	GOLDEN STATE	
Signature:			
Printed Name:	JERRY PODEDW		
Date: 09.20.02 Time:	17:30		
Received By:	GOLDEN STATE	2.	3.
Signature:			
Printed Name:			
Date: Time:			
Relinquished by		Albert Vargas	
Signature:			
Printed Name:		Albert Vargas	
Date: 9-24-02 Time:			
Received By:			
Signature:			
Printed Name:			
Date: 9.24. Time:		11:30	

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager · Goldenrod - Sampler/Originator

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

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

LAB REQUEST 96261
REPORTED 07/25/2002
RECEIVED 07/17/2002

PROJECT Station #049
3400 San Pablo 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.

Order No.	Client Sample Identification
365643	TOC #049, Outlet PSP #1
365644	TOC #049, Inlet
365645	TOC #049, Int-3
365646	TOC #049, Int-2
365647	TOC #049, Int-1
365648	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.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 365643 **Client Sample ID:** TOC #049, Outlet PSP #1
Matrix: WATER **Date Sampled:** 07/15/2002 **Time Sampled:** 13:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.18	ug/L	07/19/02 CH
Ethyl benzene	ND	1	0.3	0.18	ug/L	07/19/02 CH
Methyl t - butyl ether	3.3 J	1	5	0.24	ug/L	07/19/02 CH
Toluene	ND	1	0.3	0.14	ug/L	07/19/02 CH
Xylene (total)	ND	1	0.6	0.26	ug/L	07/19/02 CH
8015M - Total Petroleum Hydrocarbons						
Gasoline	ND	1	100	50	ug/L	07/19/02 CH
Surrogates					**Units**	**Control Limits**
a,a,a-Trifluorotoluene	111				%	70 - 130

Order #: 365644 **Client Sample ID:** TOC #049, Inlet
Matrix: WATER **Date Sampled:** 07/15/2002 **Time Sampled:** 13:10

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
8021B BTEX + MTBE						
Benzene	ND	1	0.3	0.18	ug/L	07/19/02 CH
Ethyl benzene	ND	1	0.3	0.18	ug/L	07/19/02 CH
Methyl t - butyl ether	10,000	100	500.0	0.24	ug/L	07/19/02 CH
Toluene	ND	1	0.3	0.14	ug/L	07/19/02 CH
Xylene (total)	ND	1	0.6	0.26	ug/L	07/19/02 CH
8015M - Total Petroleum Hydrocarbons						
Gasoline	10,600	100	10000.0	50	ug/L	07/19/02 CH
Surrogates					**Units**	**Control Limits**
a,a,a-Trifluorotoluene	120				%	70 - 130

Order #: 365645 **Client Sample ID:** TOC #049, Int-3
Matrix: WATER **Date Sampled:** 07/15/2002 **Time Sampled:** 13:20

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	07/19/02 CH
Ethyl benzene	ND	1	0.3	0.18	ug/L	07/19/02 CH
Methyl t - butyl ether	9,170	100	500.0	0.24	ug/L	07/19/02 CH
Toluene	ND	1	0.3	0.14	ug/L	07/19/02 CH
Xylene (total)	ND	1	0.6	0.26	ug/L	07/19/02 CH

8015M - Total Petroleum Hydrocarbons

Gasoline	9,910 J	100	10000.0	50	ug/L	07/19/02 CH

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	121	%	70 - 130

Order #: 365646
Matrix: WATER

Client Sample ID: TOC #049, Int-2
Date Sampled: 07/15/2002 **Time Sampled:** 13:30

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	07/19/02 CH
Ethyl benzene	ND	1	0.3	0.18	ug/L	07/19/02 CH
Methyl t - butyl ether	9,900	100	500.0	0.24	ug/L	07/19/02 CH
Toluene	ND	1	0.3	0.14	ug/L	07/19/02 CH
Xylene (total)	ND	1	0.6	0.26	ug/L	07/19/02 CH

8015M - Total Petroleum Hydrocarbons

Gasoline	9,110 J	100	10000.0	50	ug/L	07/19/02 CH

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	120	%	70 - 130

Order #: 365647
Matrix: WATER

Client Sample ID: TOC #049, Int-1
Date Sampled: 07/15/2002 **Time Sampled:** 13:40

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	07/19/02 CH
Ethyl benzene	ND	1	0.3	0.18	ug/L	07/19/02 CH
Methyl t - butyl ether	2,980	100	500.0	0.24	ug/L	07/19/02 CH
Toluene	ND	1	0.3	0.14	ug/L	07/19/02 CH
Xylene (total)	ND	1	0.6	0.26	ug/L	07/19/02 CH

8015M - Total Petroleum Hydrocarbons

Gasoline	4,620	J100	10000.0	50	ug/L	07/19/02 CH

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	117	%	70 - 130

Order #: 365648 **Client Sample ID** Laboratory Method Blank
Matrix: WATER

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst

8021B BTEX + MTBE

Benzene	ND	1	0.3	0.18	ug/L	07/19/02 CH
Ethyl benzene	ND	1	0.3	0.18	ug/L	07/19/02 CH
Methyl t - butyl ether	ND	1	5	0.24	ug/L	07/19/02 CH
Toluene	ND	1	0.3	0.14	ug/L	07/19/02 CH
Xylene (total)	ND	1	0.6	0.26	ug/L	07/19/02 CH

8015M - Total Petroleum Hydrocarbons

Gasoline	ND	1	100	50	ug/L	07/19/02 CH

Surrogates

		Units	Control Limits
a,a,a-Trifluorotoluene	111	%	70 - 130

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 071802W

Matrix: WATER

Prep. Date: 07/18/02

Analysis Date 07/18/02

ID#'s in Batch: LR 96131, 95908, 96261, 96240

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	400	364	412	91	103	12

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	70-130
Method Blank	111
LCS	150 *
LCSD	167 *

*** Outside QC Limits**

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIES

LCS REPORT FORM

QC Sample: LCS 071802W

Matrix: WATER

Prep. Date: 07/18/02

Analysis Date: 07/19/02

LAB ID#'s in Batch: LR 95908, 96131, 96261, 96240

REPORTING UNITS = mg/L

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP. BLK	LCS			LCSD	
		Value	Result	TRUE	%Rec	Result	%Rec
Benzene	8021	ND	17.4	20	87	21.5	108
Toluene	8021	ND	24.0	20	120	22.8	114
Ethylbenzene	8021	ND	23.1	20	116	22.2	111
Xylenes	8021	ND	60.0	60	100	58.3	97

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

L.Limit	H.Limit
80%	120%

SURROGATE RECOVERY

Sample No.	AAA-TFT
QC Limit	55-156
Method Blank	111
LCSD	128
LCSD	126

AAA-TFT = a,a,a-Trifluorotoluene

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

Chain of Custody Record

Company: THRIFTY OIL CO.
Phone: 562/921-3581
Project Manager: JEFF SURYAKUSUMA
Fax: 562/921-7510
Project Name: System water sampling
Project #: 049 ✓
Site Name and Address: 3400 SAN PABLO AVE, OAKLAND, CA. 94612

A.L. Job No. 96261 ✓
Page ___ of ___

	Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH	BTEX	MTBE	Test Instructions & Comments
1	OUTLET PSPH		07.15.02	13:00	H_2O	3VOA	HCL	X	X	X	GRAB SAMPLE
2	INLET		↕	13:10	↕	↕	↕	X	X	X	
3	INT-3			13:20				X	X	X	
4	INT-2			13:30				X	X	X	
5	INT-1			13:40				X	X	X	
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Analysis Requested

Sample Receipt - To Be Filled By Laboratory

Total Number of Containers	15	Properly Cooled Y / N / NA	yes
Custody Seals Y / N / NA	NO	Samples Intact Y / N / NA	yes
Received in Good Condition Y / N	yes	Samples Accepted Y / N	yes

Turn Around Time

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

1.	2.	3.
Relinquished by Sampler: SERBAN	Relinquished by: GOLDEN STATE	Relinquished by:
Signature: [signature]	Signature:	Signature:
Printed Name: SERBAN POPESCU	Printed Name:	Printed Name:
Date: 07.15.02 Time: 17:00	Date: Time:	Date: Time:
Received By: GOLDEN STATE	Received By: [signature]	Received By:
Signature:	Signature:	Signature:
Printed Name:	Printed Name: Ka Mw[illegible]	Printed Name:
Date: Time:	Date: 7-17-02 Time: 1150	Date: Time:

10° 711X 17

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator