

# THRIFTY OIL CO.

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Alameda County  
Environmental Health

July 2, 2008

**O.88288**

Mr. Steven Plunkett  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502

Local #RO0000005  
RWQCB #01-1479  
EDF #2764490664

RE: **Former Thrifty Oil Co. Station #063**  
**ARCO Products Company Station #9542**  
6125 Telegraph Avenue  
Oakland, CA  
*Second Quarter 2008, Status Report*

Dear Mr. Plunkett:

Presented herein is the Second Quarter 2008, Status Report prepared for former Thrifty Oil Co. (Thrifty) Station #063 located at 6125 Telegraph Avenue, Oakland, California (**Figure 1**). Presented in this report are the results of the quarterly groundwater-monitoring program and ongoing remediation conducted during the Second Quarter 2008. Thrifty has retained the services of Earth Management Company (EMC) to conduct quarterly monitoring and sampling, and remediation system operation and maintenance activities at this site.

Current and historical groundwater analytical data indicates a general decrease overall in dissolved-phase petroleum hydrocarbons at the site which Thrifty believes are a result of the operation of the groundwater remediation system and natural attenuation. In order to reduce the remaining residual petroleum hydrocarbon contamination in the soil and groundwater beneath the site and to move the site towards closure, Thrifty proposes conducting a continuous 5-day high vacuum dual-phase extraction (DPE) event (with possible additional events to be performed based upon results). Upon your approval, Thrifty will submit a workplan detailing the above proposed Interim Remedial Action.



13116 Imperial Hwy, Santa Fe Springs, CA 90670-0138 • Ph: (562)921-3581

Should you have any questions regarding this report, please contact Simon Tregurtha (562) 921-3581 Ext. 260 or the undersigned at Ext 390.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Chris Panaitescu', with a long horizontal line extending to the right.

Chris Panaitescu  
General Manager  
Environmental Affairs

cc: BP West Coast Products LLC; Mr. Bobby Lu, P.G  
File

## Summary of Monitoring and Sampling Activities

Thrifty Oil Co. Station #063

Second Quarter 2008

Reporting Period: 03/2/2008 to 07/01/2008

### Site Information:

Site address:	TOC SS #063 (ARCO #9542) 6125 Telegraph Avenue Oakland, CA
Global ID No.:	T0600101366
EDF Confirmation No.:	2764490664
Lead Agency No.:	Local #RO0000005
Lead Agency:	Alameda County Health Care Services
Agency Contact:	Mr. Steven Plunkett / 510 383-1767
Project Manager:	Simon Tregurtha / 562-921-3581 ext. 260

### Field Activity:

Groundwater wells onsite:	5
Groundwater wells offsite:	2
Date(s) monitored:	April 29, 2008
Date(s) sampled:	April 29, 2008
Groundwater wells gauged:	7
Groundwater wells sampled:	7
Purging method:	Bailer / Pump
Treatment / disposal method during sampling event:	Existing groundwater treatment system
Groundwater wells with free product:	0
Free product thickness (feet):	NA
Free product bailouts other than sampling event:	NA
Treatment / disposal method/free product bailouts:	NA

### Site Hydrogeology:

Depth to groundwater (feet bgs):	11.43 to 17.58
Groundwater elevation (feet above mean sea level):	131.30 to 136.95
Groundwater gradient and flow direction:	West-southwest at approximately 0.06 ft./ft.
Consistent with previous quarter:	Similar to previous quarter

**Groundwater Conditions:**

TPHg concentration (ug/L):	ND<6.6 to 4,340
Benzene concentration (ug/L):	ND<0.18 to 76
Toluene concentration (ug/L):	ND<0.24 to 498
Ethyl benzene concentration (ug/L):	ND<0.21 to 138
Total Xylenes concentration (ug/L):	ND<0.45 to 817
MTBE concentration (ug/L):	ND<0.19 to 11
DIPE concentration (ug/L):	ND<0.20 to ND<2.0
ETBE concentration (ug/L):	ND<0.23 to ND<2.3
TAME concentration (ug/L):	ND<0.19 to ND<1.9
TBA concentration (ug/L):	ND<10 to ND<100

**Remediation Activity:**

System type:	GWPT
System start-up:	4/8/1991
Operation this quarter (hrs.):	NA
Cumulative Operation (hrs.):	NA
GW discharge this quarter (gal.):	64,990 (03/06/08 to 06/25/08)
Total GW discharge (gal.):	3,065,029 (through June 25, 2008)
Hydrocarbons extracted this quarter (lbs.):	NA
Total hydrocarbons extracted (lbs.):	NA
Hydrocarbon removal rate (lbs/hour) from startup	NA
Hydrocarbon removal rate (lbs/hour) this quarter	NA

**Groundwater Monitoring**

Depth to groundwater is measured in each monitoring well on a quarterly basis. Groundwater monitoring well locations are presented in **Figure 1**. A groundwater elevation contour map based on the April 29, 2008, groundwater monitoring data is presented in **Figure 2**. The groundwater flow direction is to the west-southwest at an approximate gradient of 0.06 feet/foot.

**Quarterly Groundwater Sampling**

As part of the ongoing groundwater-monitoring program, groundwater samples were obtained from monitoring wells MW-1, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8 on April 29, 2008. Groundwater samples were collected by Earth Management Company (EMC) and delivered in a chilled state following strict Chain-of-Custody procedure to a state-certified laboratory. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by

EPA Method 8015B, and for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert-butyl ether (MTBE) and other oxygenates by EPA Method 8260B. Laboratory analytical results are provided in **Table 1** and **Table 2**. Copies of the Field Status Reports for groundwater sampling are presented in **Appendix A**, and copies of the laboratory analytical reports are contained in **Appendix B**.

TPHg, benzene, MTBE, and TBA concentration results are presented in **Figures 3, 4, 5, and 6**, respectively. Laboratory results indicate that the highest concentrations of TPHg and benzene were detected in well MW-4 at 4,340 micrograms per liter (ug/L) and 76 ug/L, respectively. MTBE was only detected in one well (MW-3) at 11 ug/l, and TBA and the other oxygenated compounds were not detected at or above laboratory detection limits in any of the wells.

### **Remediation Status**

Site remedial activities were initiated in April 1991. Currently, the remediation system consists of a Groundwater Treatment System that extracts groundwater from monitoring wells MW-3 and MW-4 with treatment utilizing activated carbon. System operational data is included in **Table 3** and **Appendix C**. System inlet and outlet laboratory analytical data is presented in **Appendix D**. During the current reporting period (from March 6, 2008 through June 25, 2008), the groundwater treatment system processed approximately 64,990 gallons of groundwater and has treated approximately 3,065,029 gallons of groundwater since start-up (April 1991). The system was upgraded in the 2nd Quarter 2005, when a pump was replaced in well MW-3 and MW-4 was added to the extraction well array.

### **Other Activities**

In a letter received by Thrifty dated December 7, 2005, the Alameda County Health Care Services (ACHCS) requested site information including depth to water, groundwater flow direction, dissolved constituents concentrations, well screen levels, plume stability, and if active remediation was occurring onsite. Thrifty provided the requested information on January 10, 2006. The ACHCS also requested that a site conceptual model (SCM) be prepared for the site; Thrifty uploaded the SCM to the ACHCS FTP website and to Geotracker on April 26, 2006. In a letter received by Thrifty dated October 24, 2006, the ACHCS requested a Revised SCM (RSCM) and an offsite investigation workplan (Workplan). On behalf of Thrifty, Equipoise Corporation uploaded the RSCM and Workplan to the California Geotracker website and the ACHCS FTP website on November 29, 2006. Subsequently, the ACHCS sent a letter to Thrifty dated December 21, 2006 approving the Workplan for down-gradient off-site assessment.

On February 22, 2007, two downgradient groundwater monitoring wells (MW-7 and MW-8) were installed on the adjacent property located to the south of the Site by Test America of Rancho Cordova, California under the supervision of Equipoise Corporation. Results of the additional site assessment were presented in a *Site Assessment/Well Installation Report*, submitted to ACHCS on April 5, 2007.

### **Proposed Interim Remedial Action**

Current and historical groundwater analytical data indicates an overall general decrease in dissolved-phase petroleum hydrocarbons at the site which Thrifty believes are a result of the operation of the groundwater remediation system and natural attenuation. In order to reduce the remaining residual dissolved-phase petroleum hydrocarbon contamination in the soil and groundwater beneath the site and to move the site towards closure, Thrifty proposes to conduct a continuous 5-day high vacuum dual-phase extraction (DPE) event (with possible additional events to be performed based upon results). Upon your approval, Thrifty will submit a workplan detailing the proposed Interim Remedial Action.

### **Activities Planned for Third Quarter 2008**

The following activities are planned for next reporting period (Third Quarter 2008):

- Continue groundwater monitoring and sampling;
- Continue operations of the groundwater remediation system; and
- Upon approval, submit a workplan detailing the proposed DPE event(s).

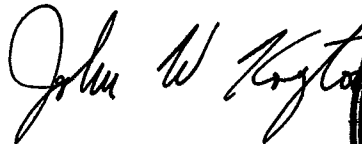
### **Closing Comments**

Interpretations expressed herein are based solely upon data collected and provided by EMC and Associated Laboratories. Should you have any questions regarding this report or require any additional information, please contact Simon Tregurtha at 562-921-3581, Ext. 260.

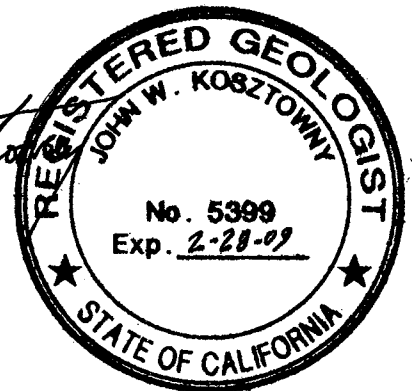
Sincerely:



Simon Tregurtha  
Project Manager



John W. Kosztowny  
Registered Geologist



# ***TABLES***

**SUMMARY TABLE  
CURRENT PERIOD GROUNDWATER DATA  
THRIFTY OIL STATION #063, OAKLAND, CA, 94609  
T0600101366**

WELL	STATUS	Monit. Sampl. Date	ANALYTICAL PARAMETERS										MONITORING PARAMETERS				ELEVATION		WELL SCREEN (feet)
			TPHg (ug/L)	B (ug/L)	M (ug/L)	T (ug/L)	X (ug/L)	MEBP (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	DTP (feet)	DTW (feet)	DTB (feet)	PT (feet)	CASING (feet)	GW (feet)	
MW-1	ACT	04/29/08	<6.6	<0.18	1.4 J	<0.21	1.4 J	<0.19	<0.20	<0.23	<0.19	<10	NP	16.32	28.94	0.00	148.43	132.11	15 - 30
MW-3	ACT	04/29/08	1,770	34	273	60	361	11	<0.20	<0.23	<0.19	<10	NP	16.30	28.20	0.00	148.94	132.64	15 - 30
MW-4	ACT	04/29/08	4,340	76	498	138	817	<1.9	<2.0	<2.3	<1.9	<100	NP	17.58	29.07	0.00	148.88	131.30	9 - 29
MW-5	ACT	04/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	<0.20	<0.23	<0.19	<10	NP	14.89	26.23	0.00	149.62	134.73	7 - 27
MW-6	ACT	04/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	<0.20	<0.23	<0.19	<10	NP	11.43	26.80	0.00	148.38	136.95	7 - 27
MW-7	ACT	04/29/08	978	<0.18	4.2 J	25	165	<0.19	<0.20	<0.23	<0.19	<10	NP	15.73	17.45	0.00	148.20	132.47	8 - 18
MW-8	ACT	04/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	<0.20	<0.23	<0.19	<10	NP	13.14	18.29	0.00	147.31	134.17	8 - 18

**NOTE:**

ACT	Groundwater well currently used for monitoring	TPHg	= Total Petroleum Hydrocarbons as gasoline	MTBE	= Methyl-tert-butyl ether	DTP	= Depth To Product	" - "	= Not analyzed / Not available
INACT	Groundwater well is NOT included in monitoring program	TPHd	= Total Petroleum Hydrocarbons as diesel	DIPE	= Isopropyl ether	DTW	= Depth To Water	" < "	= Less than detection level indicated
DRY	Groundwater well is dry and/or cannot be sampled	B	= Benzene	ETBE	= Ethyl-tert-butyl ether	DTB	= Depth To Bottom	" J "	= Flag indicating value
NOACC	Presently no access to groundwater well	T	= Toluene	TAME	= Tert-amyl methyl ether	PT	= Product Thickness		between MDL & PQL
DEST	Well has been properly destroyed, no longer a conduit to subsurface	E	= Ethylbenzene	TBA	= Tertiary butyl alcohol	GW	= Groundwater	NP	= No free product
AB	Groundwater well is abandoned, but not yet destroyed	X	= Total Xylenes						



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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
<b>MONITORING WELL #MW-1</b>											
<i>Screen Interval = 15 to 30 feet</i>											
11/21/86	-	-	-	-	-	-	NP	15.42	0.00	99.34	83.92
07/22/91	-	-	-	-	-	-	FILM	20.41	0.00	99.34	78.93
10/24/91	-	-	-	-	-	-	SHEEN	19.06	0.00	99.34	80.28
01/22/92	-	-	-	-	-	-	SHEEN	18.78	0.00	99.34	80.56
03/24/92	-	-	-	-	-	-	SHEEN	13.55	0.00	99.34	85.79
07/15/92	-	-	-	-	-	-	FILM	18.90	0.00	99.34	80.44
10/05/92	-	-	-	-	-	-	FILM	20.50	0.00	99.34	78.84
01/06/93	-	-	-	-	-	-	FILM	14.93	0.00	99.34	84.41
07/13/93	-	-	-	-	-	-	FILM	15.44	0.00	99.34	83.90
10/11/93	-	-	-	-	-	-	FILM	20.36	0.00	99.34	78.98
01/11/94	-	-	-	-	-	-	FILM	19.50	0.00	99.34	79.84
04/12/94	-	-	-	-	-	-	FILM	18.10	0.00	99.34	81.24
07/14/94	-	-	-	-	-	-	FILM	20.03	0.00	99.34	79.31
01/15/96	11,000	2,800	150	780	770	-	NP	19.02	0.00	99.34	80.32
04/15/96	17,000	3,600	330	1,500	3,400	-	NP	18.82	0.00	99.34	80.52
07/15/96	12,000	1,300	200	1,200	4,600	250	NP	#N/A	-	-	-
10/09/96	-	-	-	-	-	-	NP	14.87	0.00	99.34	84.47
01/13/97	27,000	810	6,000	570	4,100	2,700	NP	10.20	0.00	99.34	89.14
04/14/97	2,900	3.0	2.9	<0.3	1.7	9,900	NP	#N/A	-	-	-
07/07/97	5,200	0.57	0.57	<0.3	0.71	16,000	NP	18.75	0.00	99.34	80.59
10/16/97	680	<0.3	0.55	<0.3	<0.5	-	NP	17.92	0.00	99.34	81.42
01/07/98	42,000	980	2,800	1,200	5,200	1.3	NP	9.80	0.00	99.34	89.54
04/06/98	7,100	700	340	170	2,600	1,000	NP	9.60	0.00	99.34	89.74
07/14/98	19,000	2,100	400	890	5,800	1,600	NP	13.70	0.00	99.34	85.64
10/15/98	490	<0.3	<0.3	<0.3	<0.5	1,300	NP	15.25	0.00	99.34	84.09
01/20/99	350	<0.3	<0.3	<0.3	<0.5	* 670 / 820	NP	12.20	0.00	99.34	87.14
04/16/99	320	<0.3	<0.3	<0.3	<0.5	* 540 / 630	NP	12.20	0.00	99.34	87.14
07/14/99	290	<0.3	<0.3	<0.3	<0.5	*590 / 580	NP	13.75	0.00	99.34	85.59
10/07/99	130	<0.3	<0.3	<0.3	<0.5	270	NP	12.15	0.00	99.34	87.19
01/26/00	13,000	460	54	290	3,700	940	NP	13.14	0.00	99.34	86.20
04/19/00	546	<0.25	<0.25	<0.25	<0.5	*430 / 606	NP	10.63	0.00	99.34	88.71
05/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	9.11	0.00	99.34	90.23
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	9.10	0.00	99.34	90.24
10/25/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	9.08	0.00	99.34	90.26
01/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	12.16	0.00	99.34	87.18
04/23/01	18,100	740	55	650	4,000	*1,850 / 842	NP	10.60	0.00	99.34	88.74
07/16/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	9.07	0.00	99.34	90.27
10/17/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	12.16	0.00	99.34	87.18
01/23/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	15.23	0.00	99.34	84.11
04/10/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	15.17	0.00	99.34	84.17
07/24/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	16.71	0.00	99.34	82.63
10/30/02	<50	2.2	<0.14	<0.18	<0.26	13	NP	15.16	0.00	99.34	84.18
01/15/03	465 J	<0.14	<0.07	<0.08	<0.35	147	NP	16.70	0.00	99.34	82.64
04/16/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	15.16	0.00	99.34	84.18
07/14/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	13.64	0.00	99.34	85.70
10/08/03	761	11	<0.32	1.4 J	2.9 J	653	NP	15.50	0.00	99.34	83.84
01/15/04	853	<0.04	<0.02	<0.02	<0.06	*1,100 / 558	NP	14.20	0.00	99.34	85.14
04/14/04	494	<2.2	<3.2	<3.1	<4.0	843	NP	12.93	0.00	99.34	86.41
07/29/04	1,040	<2.2	<3.2	<3.1	<4.0	1,070	NP	14.73	0.00	99.34	84.61

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
10/14/04	3,250	266	<0.32	59	78	811	NP	15.26	0.00	99.34	84.08
01/06/05	197	<0.22	<0.32	<0.31	<0.4	406	NP	15.14	0.00	99.34	84.20
04/13/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	9.40	0.00	99.34	89.94
07/27/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	16.65	0.00	99.34	82.69
10/12/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	18.19	0.00	99.34	81.15
01/19/06	1,380	58	<0.10	62	113	33	NP	9.37	0.00	99.34	89.97
04/12/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	10.02	0.00	99.34	89.32
07/26/06	8,850	151	649	178	778	133	NP	15.18	0.00	99.34	84.16
10/25/06	<5.6	<0.32	<0.10	<0.24	<0.3	75	NP	15.13	0.00	99.34	84.21
01/24/07	<5.6	<0.32	3.1 J	1.2 J	6.4	<0.63	NP	13.60	0.00	148.43	134.83
04/24/07	3,090	133	3.2 J	114	116	72	NP	15.61	0.00	148.43	132.82
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.67	0.00	148.43	133.76
10/24/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.26	0.00	148.43	134.17
01/23/08	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	15.60	0.00	148.43	132.83
04/29/08	<6.6	<0.18	1.4 J	<0.21	1.4 J	<0.19	NP	16.32	0.00	148.43	132.11
<b>MONITORING WELL #MW-2</b> <i>Screen Interval = 15 to 30 feet</i>											
11/21/86	-	-	-	-	-	-	0.11	14.90	14.79	100.01	96.28
07/22/91	-	-	-	-	-	-	0.38	17.84	17.46	100.01	95.35
10/24/91	-	-	-	-	-	-	16.97	17.00	0.03	100.01	83.03
01/22/92	-	-	-	-	-	-	FILM	16.72	0.00	100.01	83.29
03/24/92	-	-	-	-	-	-	11.98	15.81	3.83	100.01	87.09
07/15/92	-	-	-	-	-	-	FILM	16.37	0.00	100.01	83.64
10/05/92	-	-	-	-	-	-	18.09	18.41	0.32	100.01	81.84
01/06/93	-	-	-	-	-	-	FILM	12.37	0.00	100.01	87.64
07/13/93	-	-	-	-	-	-	FILM	15.19	0.00	100.01	84.82
10/11/93	-	-	-	-	-	-	0.10	18.05	17.95	100.01	95.51
01/11/94	-	-	-	-	-	-	0.03	16.98	16.95	100.01	95.83
04/12/94	-	-	-	-	-	-	FILM	15.54	0.00	100.01	84.47
07/14/94	-	-	-	-	-	-	FILM	17.93	0.00	100.01	82.08
01/15/96	7,100	720	280	48	660	-	NP	17.20	0.00	100.01	82.81
04/15/96	11,000	600	59	420	870	-	NP	17.26	0.00	100.01	82.75
07/15/96	19,000	360	51	610	1,600	<250	-	#N/A	-	-	-
10/09/96	-	-	-	-	-	-	NP	14.42	0.00	100.01	85.59
01/13/97	11,000	230	30	91	700	56	NP	10.25	0.00	100.01	89.76
04/14/97	141	1.2	0.33	0.44	<0.5	20	-	#N/A	-	-	-
07/07/97	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	17.20	0.00	100.01	82.81
10/16/97	<50	<0.3	<0.3	<0.3	<0.5	-	NP	16.20	0.00	100.01	83.81
01/07/98	-	-	-	-	-	-	16.18	16.26	0.08	100.01	83.81
Well Abandoned 1/30/98											
<b>MONITORING WELL #MW-3</b> <i>Screen Interval = 15 to 30 feet</i> (GROUNDWATER SYSTEM'S PUMPING WELL)											
11/21/86	-	100	5.1	<1.0	25	-	0.10	16.25	16.15	99.76	95.70
07/22/91	-	-	-	-	-	-	NP	24.00	0.00	99.76	75.76
10/24/91	-	-	-	-	-	-	NP	18.10	0.00	99.76	81.66
01/22/92	-	-	-	-	-	-	SHEEN	25.80	0.00	99.76	73.96
03/24/92	-	-	-	-	-	-	NP	15.60	0.00	99.76	84.16
07/15/92	-	-	-	-	-	-	FILM	25.10	0.00	99.76	74.66
10/05/92	-	-	-	-	-	-	NP	25.20	0.00	99.76	74.56

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	IPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
01/06/93	-	-	-	-	-	-	NP	25.45	0.00	99.76	74.31
07/13/93	-	-	-	-	-	-	NP	14.24	0.00	99.76	85.52
10/11/93	-	-	-	-	-	-	NP	25.60	0.00	99.76	74.16
01/11/94	-	-	-	-	-	-	NP	25.90	0.00	99.76	73.86
04/12/94	-	-	-	-	-	-	NP	25.70	0.00	99.76	74.06
07/14/94	-	-	-	-	-	-	NP	25.10	0.00	99.76	74.66
01/15/96	-	-	-	-	-	-	NP	26.04	0.00	99.76	73.72
04/15/96	-	-	-	-	-	-	NP	21.03	0.00	99.76	78.73
07/15/96	5,900	240	30	270	730	780	NP	#N/A	-	-	-
10/09/96	-	-	-	-	-	-	NP	21.43	0.00	99.76	78.33
01/13/97	-	-	-	-	-	-	NP	11.20	0.00	99.76	88.56
07/07/97	-	-	-	-	-	-	NP	23.40	0.00	99.76	76.36
10/16/97	-	-	-	-	-	-	NP	22.30	0.00	99.76	77.46
01/07/98	-	-	-	-	-	-	NP	20.10	0.00	99.76	79.66
07/14/98	-	-	-	-	-	-	NP	14.40	0.00	99.76	85.36
10/15/98	-	-	-	-	-	-	NP	#N/A	-	-	-
01/20/99	-	-	-	-	-	-	NP	#N/A	-	-	-
04/16/99	-	-	-	-	-	-	NP	11.20	0.00	99.76	88.56
07/14/99	5,600	9.6	1.3	3.5	8.1	*14,000 / 14,000	NP	25.87	0.00	99.76	73.89
10/07/99	-	-	-	-	-	-	NP	15.40	0.00	99.76	84.36
01/26/00	-	-	-	-	-	-	NP	14.25	0.00	99.76	85.51
04/19/00	-	-	-	-	-	-	NP	14.20	0.00	99.76	85.56
05/26/00	-	-	-	-	-	-	NP	15.12	0.00	99.76	84.64
07/26/00	-	-	-	-	-	-	NP	14.30	0.00	99.76	85.46
10/25/00	-	-	-	-	-	-	NP	14.32	0.00	99.76	85.44
01/10/01	-	-	-	-	-	-	NP	13.46	0.00	99.76	86.30
04/23/01	-	-	-	-	-	-	NP	#N/A	-	-	-
07/16/01	-	-	-	-	-	-	NP	12.80	0.00	99.76	86.96
10/17/01	-	-	-	-	-	-	NP	15.30	0.00	99.76	84.46
01/23/02	-	-	-	-	-	-	NP	#N/A	-	-	-
04/10/02	-	-	-	-	-	-	NP	13.22	0.00	99.76	86.54
07/24/02	-	-	-	-	-	-	NP	14.32	0.00	99.76	85.44
10/30/02	-	-	-	-	-	-	NP	16.20	0.00	99.76	83.56
01/15/03	-	-	-	-	-	-	NP	14.10	0.00	99.76	85.66
04/16/03	-	-	-	-	-	-	NP	#N/A	-	99.76	-
07/14/03	2,490	<0.22	<0.32	<0.31	1.3 J	2,050	NP	18.30	0.00	99.76	81.46
10/08/03	3,330	<0.22	<0.32	<0.31	<0.4	4,070	NP	16.65	0.00	99.76	83.11
01/15/04	102	2.1	3.5	<0.02	12	*28 / 17	NP	14.18	0.00	99.76	85.58
04/14/04	464	63	18	<0.31	16	189	NP	13.45	0.00	99.76	86.32
07/29/04	1,560	74	<3.2	30 J	<4.0	729	NP	15.94	0.00	99.76	83.82
10/14/04	2,490	25	<0.32	<0.31	<0.4	2,530	NP	16.11	0.00	99.76	83.65
01/06/05	394	12	<0.32	1.5 J	<0.4	51	NP	15.61	0.00	99.76	84.15
04/13/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	9.19	0.00	99.76	90.57
07/27/05	383	5.6	<0.10	17	2.4 J	125	NP	16.63	0.00	99.76	83.13
10/12/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	16.97	0.00	99.76	82.79
01/19/06	2,050	93	2.2 J	103	55	273	NP	10.92	0.00	99.76	88.84
04/12/06	70	<0.32	<0.10	<0.24	<0.30	265	NP	12.55	0.00	99.76	87.21
07/26/06	228	<0.32	<0.10	<0.24	26	389	NP	14.94	0.00	99.76	84.82
10/25/06	87,100	26	4,880	2,390	18,500	<6.3	NP	17.49	0.00	99.76	82.27
01/24/07	4,770	1.5	98	86	604	<0.63	NP	13.40	0.00	148.94	135.54

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
04/24/07	15,700	42	<2.4	404	1,250	<1.9	NP	16.76	0.00	148.94	132.18
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	15.72	0.00	148.94	133.22
10/24/07	2,100	120	1.5 J	36	4.0 J	499	NP	15.43	0.00	148.94	133.51
01/23/08	59	<0.18	<0.24	<0.21	3.2 J	25	NP	15.43	0.00	148.94	133.51
04/29/08	1,770	34	273	60	361	11	NP	16.30	0.00	148.94	132.64
<b>MONITORING WELL #MW-4</b>											
<i>Screen Interval = 9 to 29 feet</i>											
11/21/86	100,000	3,200	2,700	2,400	14,000	-	FILM	16.22	0.00	99.48	83.26
07/22/91	-	-	-	-	-	-	21.35	21.80	0.45	99.48	78.02
10/24/91	-	-	-	-	-	-	SHEEN	20.02	0.00	99.48	79.46
01/22/92	-	-	-	-	-	-	SHEEN	19.78	0.00	99.48	79.70
03/24/92	-	-	-	-	-	-	FILM	13.94	0.00	99.48	85.54
07/15/92	-	-	-	-	-	-	FILM	19.27	0.00	99.48	80.21
10/05/92	-	-	-	-	-	-	FILM	21.44	0.00	99.48	78.04
01/06/93	-	-	-	-	-	-	FILM	14.08	0.00	99.48	85.40
07/13/93	-	-	-	-	-	-	FILM	16.09	0.00	99.48	83.39
10/11/93	-	-	-	-	-	-	FILM	21.33	0.00	99.48	78.15
01/11/94	-	-	-	-	-	-	FILM	20.45	0.00	99.48	79.03
04/12/94	-	-	-	-	-	-	FILM	19.05	0.00	99.48	80.43
07/14/94	-	-	-	-	-	-	FILM	20.41	0.00	99.48	79.07
01/15/96	5,000	370	38	300	390	-	NP	19.89	0.00	99.48	79.59
04/15/96	38,000	300	78	540	470	-	NP	19.62	0.00	99.48	79.86
07/15/96	13,000	880	69	820	1,100	3,600	#N/A	-	-	-	-
10/09/96	-	-	-	-	-	-	NP	15.32	0.00	99.48	84.16
01/13/97	47,000	2,500	2,500	1,100	2,800	70,000	NP	10.80	0.00	99.48	88.68
04/14/97	8,700	<0.3	0.45	<0.3	0.64	29,000	#N/A	-	-	-	-
07/07/97	12,000	<0.3	<0.3	<0.3	<0.5	-	NP	18.80	0.00	99.48	80.68
10/16/97	770	<0.3	<0.3	<0.3	<0.5	-	NP	17.76	0.00	99.48	81.72
01/07/98	75,000	3,000	900	1,400	2,500	110	NP	11.60	0.00	99.48	87.88
04/08/98	18,000	1,200	130	710	1,400	22,000	NP	10.10	0.00	99.48	89.38
07/14/98	21,000	1,300	58	1,200	1,100	23,000	NP	16.30	0.00	99.48	83.18
10/15/98	9,100	1.1	0.62	<0.3	<0.5	30,000	NP	16.90	0.00	99.48	82.58
01/20/99	16,000	<0.3	0.91	0.72	1.4	* 43,000 / 42,000	NP	15.35	0.00	100.48	85.13
04/16/99	17,000	0.48	0.92	0.54	1.4	* 28,000 / 26,000	NP	15.30	0.00	100.48	85.18
07/14/99	8,500	<6.0	<6.0	<6.0	<10	*21,000 / 16,000	NP	18.40	0.00	100.48	82.08
10/07/99	2,500	<1.5	3.1	<1.5	<2.5	4,800	NP	16.89	0.00	100.48	83.59
01/26/00	9,900	350	9.0	460	460	2,800	NP	12.62	0.00	100.48	87.86
04/19/00	8,990	0.7	<0.25	<0.25	<0.5	*3,240 / 5,450	NP	12.28	0.00	100.48	88.20
05/26/00	94	<0.3	<0.3	<0.3	<0.6	*746 / 419	NP	13.81	0.00	100.48	86.67
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	3,110 / 2,060	NP	12.29	0.00	100.48	88.19
10/25/00	2,480	<0.18	<0.14	<0.18	<0.26	*3,690 / 3,040	NP	12.26	0.00	100.48	88.22
01/10/01	<50	<0.18	2.0	<0.18	1.0	962	NP	10.75	0.00	100.48	89.73
04/23/01	482	<0.18	<0.14	<0.18	<0.26	*875 / 453	NP	12.26	0.00	100.48	88.22
07/16/01	71,700	9,440	12,600	514	8,980	*1,330 / 389	NP	13.80	0.00	100.48	86.68
10/17/01	13,500	1,950	425	<5.94	1,110	*829 / 329	NP	16.87	0.00	100.48	83.61
01/23/02	12,100	196	57	68	2,090	*688/738	NP	12.28	0.00	100.48	88.20
04/10/02	655	7.0	8.0	1.0	1.0	587	NP	13.80	0.00	100.48	86.68
07/24/02	17,400	<0.18	1.9	1.4	2.2	12,800	NP	15.33	0.00	100.48	85.15
10/30/02	17,300	400	47	748	131	12,300	NP	17.00	0.00	100.48	83.48

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
01/15/03	23,000	568	39	832	268	18,300	NP	16.84	0.00	100.48	83.64
04/16/03	15,800	411	15	26	14	18,200	NP	16.86	0.00	100.48	83.62
07/14/03	13,300	145	26	2.8 J	12	17,600	NP	10.69	0.00	100.48	89.79
10/08/03	12,500	64	<3.2	359	24 J	11,400	NP	16.32	0.00	100.48	84.16
01/15/04	12,300	11	4.4	66	4.0	*17,000 / 9,560	NP	14.67	0.00	100.48	85.81
04/14/04	7,340	<11	<16	<15.5	<20	13,500	NP	13.68	0.00	100.48	86.80
07/29/04	5,400	<2.2	<3.2	57	<4.0	6,730	NP	15.50	0.00	100.48	84.98
10/14/04	10,200	197	<3.2	233	13 J	3,940	NP	16.08	0.00	100.48	84.40
01/06/05	4,880	60	<3.2	74	<4.0	4,760	NP	15.24	0.00	100.48	85.24
04/13/05	2,780	57	35	20	251	3,650	NP	9.64	0.00	100.48	90.84
07/27/05	1,990	<0.32	<0.10	<0.24	<0.30	2,590	NP	16.79	0.00	100.48	83.69
10/12/05	25,700	177	<1.0	941	<3.0	4,810	NP	16.78	0.00	100.48	83.70
01/19/06	4,780	96	1.9 J	183	57	210	NP	10.46	0.00	100.48	90.02
04/12/06	1,860	<0.32	<0.10	<0.24	<0.30	192	NP	12.69	0.00	100.48	87.79
07/26/06	6,390	133	343	94	363	1,160	NP	15.18	0.00	100.48	85.30
10/25/06	12,100	51	162	<2.4	2,380	2,050	NP	14.88	0.00	148.88	135.14
01/24/07	21,600	2.9	256	205	1,710	123	NP	13.74	0.00	148.88	132.21
04/24/07	1,840	25	<0.24	80	14	754	NP	16.67	0.00	148.88	132.21
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	15.44	0.00	148.88	133.44
10/24/07	106	13	<0.24	1.4 J	<0.45	44	NP	15.17	0.00	148.88	133.71
01/23/08	1,520	41	100	18	152	428	NP	16.57	0.00	148.88	132.31
04/29/08	4,340	76	498	138	817	<1.9	NP	17.58	0.00	148.88	131.30
<b>MONITORING WELL #MW-5</b> <i>Screen Interval = 7 to 27 feet</i>											
11/21/86	<1,000	4.8	2.1	<0.5	7.4	-	NP	16.10	0.00	100.98	84.88
07/22/91	-	<0.5	1.6	<1.0	2.0	-	NP	18.20	0.00	100.98	82.78
10/24/91	-	-	-	-	-	-	NP	17.67	0.00	100.98	83.31
01/22/92	600	21.0	8.0	2.0	17.0	-	#N/A	-	-	-	-
03/24/92	-	-	-	-	-	-	NP	12.98	0.00	100.98	88.00
07/15/92	<200	<0.5	<0.5	<0.5	<0.5	-	NP	17.29	0.00	100.98	83.69
10/05/92	-	-	-	-	-	-	NP	18.92	0.00	100.98	82.06
01/06/93	300	2.7	<0.5	1.3	26.0	-	NP	13.12	0.00	100.98	87.86
07/13/93	<100	1.1	0.5	1.0	1.5	-	NP	16.15	0.00	100.98	84.83
10/11/93	130	1.2	<0.3	<0.3	<0.6	-	NP	18.75	0.00	100.98	82.23
01/11/94	<50	1.5	<0.3	<0.3	<0.5	-	NP	17.80	0.00	100.98	83.18
04/12/94	<50	<0.3	<0.3	<0.3	<0.5	-	NP	13.59	0.00	100.98	87.39
07/14/94	<50	0.42	<0.3	<0.3	<0.5	-	NP	18.26	0.00	100.98	82.72
07/15/95	100	1.2	<0.5	0.8	<1.0	-	#N/A	-	-	-	-
01/15/96	1,900	21	13	6.2	6.8	-	NP	13.09	0.00	100.98	87.89
04/15/96	250	5.1	2.7	1.7	1.1	-	NP	13.16	0.00	100.98	87.82
07/15/96	270	6.5	1.4	1.8	1.4	230	#N/A	-	-	-	-
10/09/96	-	-	-	-	-	-	NP	15.37	0.00	100.98	85.61
01/13/97	25,000	780	5,700	560	4,000	24,000	NP	10.90	0.00	100.98	90.08
04/14/97	6,300	260	1,600	28	550	9,000	#N/A	-	-	-	-
07/07/97	7,500	300	1,500	12	110	16,000	NP	14.70	0.00	100.98	86.28
10/16/97	4,600	<0.3	0.65	<0.3	<0.5	-	NP	13.60	0.00	100.98	87.38
01/07/98	2,700	33	11	37	580	7.3	NP	10.97	0.00	100.98	90.01
04/08/98	300	9.1	<0.3	<0.3	<0.5	650	NP	10.90	0.00	100.98	90.08
07/14/98	670	5.9	<0.3	<0.3	0.53	2,300	NP	15.20	0.00	100.98	85.78

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
10/15/98	<50	<0.3	<0.3	<0.3	<0.5	19	NP	15.90	0.00	100.98	85.08
01/20/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	15.20	0.00	101.98	86.78
04/16/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	15.25	0.00	101.98	86.73
07/14/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	15.96	0.00	101.98	86.02
10/07/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	16.33	0.00	101.98	85.65
01/26/00	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	14.80	0.00	101.98	87.18
04/19/00	965	<0.25	<0.25	<0.25	<0.5	<5.0	NP	10.97	0.00	101.98	91.01
05/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	14.43	0.00	101.98	87.55
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	14.02	0.00	101.98	87.96
10/25/00	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	14.04	0.00	101.98	87.94
01/10/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	14.80	0.00	101.98	87.18
04/23/01	<50	<0.18	<0.14	<0.18	<0.26	*10 / 4.2	NP	10.97	0.00	101.98	91.01
07/16/01	3,360	430	603	53	429	*41 / 4.2	NP	14.80	0.00	101.98	87.18
10/17/01	<50	<0.18	<0.14	<0.18	<0.26	*16 / 5.2	NP	16.71	0.00	101.98	85.27
01/23/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	14.80	0.00	101.98	87.18
04/10/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	14.42	0.00	101.98	87.56
07/24/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	14.78	0.00	101.98	87.20
10/30/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	15.93	0.00	101.98	86.05
01/15/03	<50	<0.14	<0.07	<0.08	<0.35	<2.0	NP	15.55	0.00	101.98	86.43
04/16/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	15.55	0.00	101.98	86.43
07/14/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	15.93	0.00	101.98	86.05
10/08/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	16.35	0.00	101.98	85.63
01/15/04	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	15.06	0.00	101.98	86.92
04/14/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	13.96	0.00	101.98	88.02
07/29/04	659	<2.2	<3.2	<3.1	<4.0	606	NP	15.60	0.00	101.98	86.38
10/14/04	411	<0.22	<0.32	<0.31	<0.4	425	NP	16.17	0.00	101.98	85.81
01/06/05	433	<0.22	<0.32	<0.31	<0.4	491	NP	15.52	0.00	101.98	86.46
04/13/05	161	<0.22	<0.32	<0.31	<0.4	465	NP	10.12	0.00	101.98	91.86
07/27/05	237	<0.32	<0.10	<0.24	<0.30	243	NP	16.66	0.00	101.98	85.32
10/12/05	149	<0.32	<0.10	<0.24	<0.30	183	NP	16.66	0.00	101.98	85.32
01/19/06	66	<0.32	<0.10	<0.24	<0.30	5.9	NP	9.96	0.00	101.98	92.02
04/12/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	11.69	0.00	101.98	90.29
07/26/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	15.53	0.00	101.98	86.45
10/25/06	<5.6	<0.32	<0.10	<0.24	<0.3	<0.63	NP	12.96	0.00	101.98	89.02
01/24/07	60	<0.32	16	3.8 J	17	<0.63	NP	14.37	0.00	149.62	135.25
04/24/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.12	0.00	149.62	135.50
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	17.06	0.00	149.62	132.56
10/24/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	16.50	0.00	149.62	133.12
01/23/08	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.16	0.00	149.62	135.46
04/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	14.89	0.00	149.62	134.73
<b>MONITORING WELL #MW-6</b> <i>Screen Interval = 7 to 27 feet</i>											
11/21/86	<1,000	<2.0	<2.0	<2.0	<2.0	-	NP	12.64	0.00	99.44	86.80
07/22/91	-	-	-	-	-	-	-	#N/A	-	-	-
01/22/92	<200	<0.5	<0.5	<0.5	1.5	-	-	#N/A	-	-	-
03/24/92	-	-	-	-	-	-	NP	10.04	0.00	99.44	89.40
07/15/92	<200	<0.5	<0.5	<0.5	<0.5	-	NP	13.29	0.00	99.44	86.15
10/05/92	-	-	-	-	-	-	NP	14.69	0.00	99.44	84.75
01/06/93	<200	<0.5	<0.5	<0.5	<1.0	-	NP	10.87	0.00	99.44	88.57

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
07/13/93	<100	<0.5	<0.5	<0.5	<1.0	-	NP	13.10	0.00	99.44	86.34
10/11/93	<60	<0.3	<0.3	<0.3	<0.6	-	NP	14.43	0.00	99.44	85.01
01/11/94	<50	<0.3	<0.3	<0.3	<0.5	-	NP	13.56	0.00	99.44	85.88
04/12/94	<50	<0.3	<0.3	<0.3	<0.3	-	NP	12.10	0.00	99.44	87.34
07/14/94	<50	<0.3	<0.3	<0.3	<0.3	-	NP	14.16	0.00	99.44	85.28
07/15/95	140	<0.5	<0.5	<0.5	<1	-		#N/A	-	-	-
01/15/96	56	0.38	0.33	<0.3	<0.5	-	NP	14.29	0.00	99.44	85.15
04/15/96	96	4.5	<0.3	<0.3	0.53	-	NP	14.32	0.00	99.44	85.12
07/15/96	140	2.4	0.44	<0.3	0.70	110		#N/A	-	-	-
10/09/96	-	-	-	-	-	-	NP	12.09	0.00	99.44	87.35
01/13/97	210	<0.3	1.2	<0.3	0.68	270	NP	9.85	0.00	99.44	89.59
04/14/97	<50	<0.3	<0.3	<0.3	<0.5	<20		#N/A	-	-	-
07/07/97	<50	<0.3	<0.3	<0.3	<0.5	<20	NP	14.20	0.00	99.44	85.24
10/16/97	<50	<0.3	<0.3	<0.3	<0.5	-	NP	13.10	0.00	99.44	86.34
01/07/98	<50	<0.3	<0.3	<0.3	<0.5	0.10	NP	9.80	0.00	99.44	89.64
07/14/98	330	<0.3	<0.3	<0.3	<0.5	380	NP	12.30	0.00	99.44	87.14
10/15/98	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	14.30	0.00	99.44	85.14
01/20/99	<50	0.47	<0.3	<0.3	<0.5	<5.0	NP	13.60	0.00	100.44	86.84
04/16/99	<50	<0.3	<0.3	<0.3	<0.5	<5.0	NP	13.50	0.00	100.44	86.94
07/14/99	<50	<0.3	<0.3	<0.3	<0.5	*5.4 / <5.0	NP	14.65	0.00	100.44	85.79
10/07/99	<50	<0.3	0.96	0.35	1.8	<5.0	NP	15.39	0.00	100.44	85.05
01/26/00	<50	<0.3	<0.3	<0.3	0.63	<5.0	NP	13.85	0.00	100.44	86.59
04/19/00	83.1	<0.25	<0.25	<0.25	<0.5	*11 / <5.0	NP	9.65	0.00	100.44	90.79
05/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	13.10	0.00	100.44	87.34
07/26/00	<50	<0.3	<0.3	<0.3	<0.6	<5.0	NP	12.35	0.00	100.44	88.09
10/25/00	<50	<0.18	<0.14	<0.18	<0.26	*7 / 10	NP	12.30	0.00	100.44	88.14
01/10/01	<50	<0.18	<0.14	<0.18	<0.26	78	NP	13.45	0.00	100.44	86.99
04/23/01	<50	<0.18	<0.14	<0.18	<0.26	*9 / 4	NP	9.65	0.00	100.44	90.79
07/16/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	13.09	0.00	100.44	87.35
10/17/01	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	15.37	0.00	100.44	85.07
01/23/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	13.27	0.00	100.44	87.17
04/10/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	13.07	0.00	100.44	87.37
07/24/02	<50	<0.18	<0.14	<0.18	<0.26	<0.24	NP	13.86	0.00	100.44	86.58
10/30/02	<50	1.6	<0.14	<0.18	<0.26	6.4	NP	14.20	0.00	100.44	86.24
01/15/03	<50	<0.14	<0.07	<0.08	0.84	<2.0	NP	15.35	0.00	100.44	85.09
04/16/03	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	14.58	0.00	100.44	85.86
07/14/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	15.35	0.00	100.44	85.09
10/08/03	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	13.80	0.00	100.44	86.64
01/15/04	<15	<0.04	<0.02	<0.02	<0.06	<0.03	NP	13.51	0.00	100.44	86.93
04/14/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	11.62	0.00	100.44	88.82
07/29/04	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	13.12	0.00	100.44	87.32
10/14/04	346	<0.22	<0.32	<0.31	<0.4	159	NP	13.53	0.00	100.44	86.91
01/06/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	13.02	0.00	100.44	87.42
04/13/05	<15	<0.22	<0.32	<0.31	<0.4	<0.18	NP	9.32	0.00	100.44	91.12
07/27/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	13.17	0.00	100.44	87.27
10/12/05	<2.9	<0.32	<0.10	<0.24	<0.30	<0.63	NP	14.55	0.00	100.44	85.89
01/19/06	72	<0.32	<0.10	<0.24	<0.30	12	NP	8.74	0.00	100.44	91.70
04/12/06	<5.6	<0.32	<0.10	<0.24	<0.30	<0.63	NP	9.96	0.00	100.44	90.48
07/26/06	55	<0.32	<0.10	<0.24	<0.30	57	NP	12.56	0.00	100.44	87.88
10/25/06	<5.6	<0.32	<0.10	<0.24	<0.3	<0.63	NP	13.00	0.00	100.44	87.44

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

DATE SAMPLED	ANALYTICAL PARAMETERS						DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPH (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	EthylBenzene (ug/L)	XYLENE (ug/L)	MTBE (ug/L)					
01/24/07	<5.6	<0.32	2.2 J	1.1 J	5.6	<0.63	NP	11.87	0.00	148.38	136.51
04/24/07	<5.6	<0.18	<0.24	<0.21	1.5 J	5.7	NP	10.63	0.00	148.38	137.75
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	13.04	0.00	148.38	135.34
10/24/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	12.53	0.00	148.38	135.85
01/23/08	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	10.70	0.00	148.38	137.68
04/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	11.43	0.00	148.38	136.95
<b>MONITORING WELL #MW-7</b> <i>Screen Interval = 8 to 18 feet</i>											
03/05/07	3,110	16	<0.10	125	725	10	NP	10.84	0.00	148.20	137.36
04/24/07	15,500	42	<2.4	381	1,230	<1.9	NP	15.03	0.00	148.20	133.17
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	15.03	0.00	148.20	133.17
10/24/07	1,100	72	<0.24	18	1.6 J	221	NP	14.54	0.00	148.20	133.66
01/23/08	149	<0.18	14	4.4 J	25	<0.19	NP	15.00	0.00	148.20	133.20
04/29/08	978	<0.18	4.2 J	25	165	<0.19	NP	15.73	0.00	148.20	132.47
<b>MONITORING WELL #MW-8</b> <i>Screen Interval = 8 to 18 feet</i>											
03/05/07	<5.6	<0.32	<0.10	<0.24	<0.3	22	NP	11.90	0.00	147.31	135.41
04/24/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	12.37	0.00	147.31	134.94
07/25/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	13.42	0.00	147.31	133.89
10/24/07	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	12.93	0.00	147.31	134.38
01/23/08	<5.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	12.40	0.00	147.31	134.91
04/29/08	<6.6	<0.18	<0.24	<0.21	<0.45	<0.19	NP	13.14	0.00	147.31	134.17

**NOTE:** Monitoring wells MW-1 through MW-8 were surveyed on 3/5/2007  
 ^ Top of casing elevation estimated to be 6 inches below well rim  
 NP = No free hydrocarbon product  
 " - " = Not analyzed / Not available  
 \* MTBE 8020 / 8260

Benzene, toluene, ethylbenzene, and xylene analyzed by EPA method 8020/8021B.  
 Total petroleum hydrocarbons (TPH) analyzed by EPA method 8015 modified for gasoline  
 Methyl-tert Butyl Ether (MTBE) analyzed by EPA method 8020/8021B  
 On 10/8/03 & 7/14/2003, BTEX and MTBE analyzed by 8260B  
 Beginning 4/14/2004, BTEX and MTBE analyzed by 8260B



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

DATE SAMPLED	OXYGENATES					
	Di-isopropyl Ether (DIPE) (ug/L)	Ethyl-Tert-Butyl Ether (ETBE) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	Tert-Butyl Alcohol (TBA) (ug/L)	Ethanol (ETH) (mg/L)	Methanol (METH) (mg/L)
<b>MONITORING WELL # MW-1</b>						
10/16/97	<20	<20	<20	3,900		
01/07/98	<20	<20	92	<500		
04/03/98	<20	<20	65	<500		
07/14/03	<0.29	<0.17	<0.28	<10		
10/08/03	<0.29	<0.17	15	487		
01/15/04	-	-	-	-		
04/14/04	-	-	-	-		
07/29/04	-	-	-	-		
10/14/04	-	-	-	-		
07/27/05	<0.29	<0.17	<0.28	<10	<20	<20
10/12/05	<0.29	<0.17	<0.28	<10	<20	<20
01/19/06	<0.29	<0.17	<0.28	27	<20	<20
04/12/06	<0.29	<0.17	<0.28	<10	<20	<20
07/26/06	<2.9	<1.7	<2.8	121	-	-
10/25/06	<0.29	<0.17	2.4	11	-	-
01/24/07	<0.29	<0.17	<0.28	<10	-	-
04/24/07	<0.20	<0.23	<0.19	54	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
10/24/07	<0.20	<0.23	<0.19	<10	-	-
01/23/08	<0.20	<0.23	<0.19	<10	-	-
04/29/08	<0.20	<0.23	<0.19	<10	-	-
<b>MONITORING WELL # MW-2</b>						
10/16/97	<20	<20	<20	<500		
Well Abandoned 1/30/98						
<b>MONITORING WELL # MW-3 (GROUNDWATER SYSTEM'S PUMPING WELL)</b>						
10/16/97	-	-	-	-		
01/07/98	-	-	-	-		
04/03/98	-	-	-	-		
07/14/03	<0.29	<0.17	24	608		
10/08/03	<0.29	<0.17	30	<10		
01/15/04	-	-	-	-		
04/14/04	-	-	-	-		
07/29/04	-	-	-	-		
10/14/04	-	-	-	-		
07/27/05	<0.29	<0.17	<0.28	24	<20	<20
10/12/05	<0.29	<0.17	<0.28	<10	<20	<20
01/19/06	<0.29	<0.17	3.9	167	<20	<20
04/12/06	<0.29	<0.17	2.5	17	<20	<20
07/26/06	<0.29	<0.17	3.2	205	-	-
10/25/06	<2.9	<1.7	<2.8	<100	-	-
01/24/07	<0.29	<0.17	<0.28	70	-	-
04/24/07	<2.0	<2.3	<1.9	<18	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
10/24/07	<0.20	<0.23	<0.19	1790	-	-
01/23/08	<0.20	<0.23	<0.19	38	-	-
04/29/08	<0.20	<0.23	<0.19	<10	-	-
<b>MONITORING WELL # MW-4</b>						
10/16/97	<20	<20	<20	14,000		
01/07/98	<20	<20	230	<500		
04/03/98	<200	<200	<200	<5,000		
07/14/03	<0.29	<0.17	62	2,490		
10/08/03	<2.9	<1.7	101	<100		
01/15/04	-	-	-	-		
04/14/04	-	-	-	-		

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

DATE SAMPLED	OXYGENATES					
	Di-isopropyl Ether (DIPE) (ug/L)	Ethyl-Tert-Butyl Ether (ETBE) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	Tert-Butyl Alcohol (TBA) (ug/L)	Ethanol (ETH) (mg/L)	Methanol (METH) (mg/L)
07/29/04	-	-	-	-	-	-
10/14/04	-	-	-	-	-	-
07/27/05	<0.29	<0.17	<0.28	<10	<20	<20
10/12/05	<2.9	<1.7	<2.8	1,340	<20	<20
01/19/06	<0.29	<0.17	<0.28	138	<20	<20
04/12/06	<0.29	<0.17	<0.28	163	<20	<20
07/26/06	<2.9	<1.7	16	836	-	-
10/25/06	<2.9	<1.7	18	1060	-	-
01/24/07	<0.29	<0.17	<0.28	139	-	-
04/24/07	<0.20	<0.23	11	776	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
10/24/07	<0.20	<0.23	<0.19	62	-	-
01/23/08	<0.20	<0.23	7.3	1,520	-	-
04/29/08	<2.0	<2.3	<1.9	<100	-	-
<b>MONITORING WELL # MW-5</b>						
10/16/97	<20	<20	<20	4,700	-	-
01/07/98	<20	<20	<20	<500	-	-
04/03/98	<20	<20	<20	<500	-	-
07/14/03	<0.29	<0.17	<0.28	<10	-	-
10/08/03	<0.29	<0.17	<0.28	<10	-	-
01/15/04	-	-	-	-	-	-
04/14/04	-	-	-	-	-	-
07/29/04	-	-	-	-	-	-
10/14/04	-	-	-	-	-	-
07/27/05	<0.29	<0.17	<0.28	<10	<20	<20
10/12/05	<0.29	<0.17	<0.28	<10	<20	<20
01/19/06	<0.29	<0.17	<0.28	<10	<20	<20
04/12/06	<0.29	<0.17	<0.28	<10	<20	<20
07/26/06	<0.29	<0.17	<0.28	<10	-	-
10/25/06	<0.29	<0.17	<0.28	<10	-	-
01/24/07	<0.29	<0.17	<0.28	<10	-	-
04/24/07	<0.20	<0.23	<0.19	<1.8	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
10/24/07	<0.20	<0.23	<0.19	<10	-	-
01/23/08	<0.20	<0.23	<0.19	<10	-	-
04/29/08	<0.20	<0.23	<0.19	<10	-	-
<b>MONITORING WELL # MW-6</b>						
10/16/97	<20	<20	<20	<500	-	-
01/07/98	<20	<20	40	<500	-	-
04/03/98	-	-	-	-	-	-
07/14/03	<0.29	<0.17	<0.28	<10	-	-
10/08/03	<0.29	<0.17	<0.28	<10	-	-
01/15/04	-	-	-	-	-	-
04/14/04	-	-	-	-	-	-
07/29/04	-	-	-	-	-	-
10/14/04	-	-	-	-	-	-
07/27/05	<0.29	<0.17	<0.28	<10	<20	<20
10/12/05	<0.29	<0.17	<0.28	<10	<20	<20
01/19/06	<0.29	<0.17	2.7	<10	<20	<20
04/12/06	<0.29	<0.17	<0.28	<10	<20	<20
07/26/06	<0.29	<0.17	47	<10	-	-
10/25/06	<0.29	<0.17	<0.28	<10	-	-
01/24/07	<0.29	<0.17	<0.28	<10	-	-
04/24/07	<0.20	<0.23	2.4	<1.8	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
10/24/07	<0.20	<0.23	<0.19	<10	-	-

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

DATE SAMPLED	OXYGENATES					
	Di-isopropyl Ether (DIPE) (ug/L)	Ethyl-Tert-Butyl Ether (ETBE) (ug/L)	Tert-Amyl Methyl Ether (TAME) (ug/L)	Tert-Butyl Alcohol (TBA) (ug/L)	Ethaanol (ETH) (mg/L)	Methanol (METH) (mg/L)
01/23/08	<0.20	<0.23	<0.19	<10	-	-
04/29/08	<0.20	<0.23	<0.19	<10	-	-
<b>MONITORING WELL # MW-7</b>						
03/05/07	<0.29	<0.17	<0.28	<10	<20	<20
04/24/07	<2.0	<2.3	<1.9	<18	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
10/24/07	<0.20	<0.23	<0.19	1120	-	-
01/23/08	<0.20	<0.23	<0.19	<10	-	-
04/29/08	<0.20	<0.23	<0.19	<10	-	-
<b>MONITORING WELL # MW-8</b>						
03/05/07	<0.29	<0.17	<0.28	<10	<20	<20
04/24/07	<0.20	<0.23	<0.19	<1.8	-	-
10/24/07	<0.20	<0.23	<0.19	<10	-	-
07/25/07	<0.20	<0.23	<0.19	<10	-	-
01/23/08	<0.20	<0.23	<0.19	<10	-	-
04/29/08	<0.20	<0.23	<0.19	<10	-	-

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

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT						
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	
4/8/1991	1,669	0	-	-	<0.3	<0.3	<0.3	<0.9	-	-	1300	120	<7.5	1300	-	
4/15/1991	5,742	4,073	582	-	<0.3	<0.3	<0.3	<0.3	-	-	700	140	<15	500	-	
4/22/1991	10,240	8,571	643	-	<0.3	<0.3	<0.3	<0.9	-	-	850	100	34	860	-	
4/29/1991	15,510	13,841	753	-	<0.3	<0.3	<0.3	<0.9	-	-	220	8.4	<0.3	42	-	
5/6/1991	20,200	18,531	670	-	<0.3	<0.3	<0.3	<0.9	-	-	280	0.8	<0.3	56	-	
5/13/1991	24,430	22,761	604	-	<0.3	<0.3	<0.3	<0.9	-	-	190	5.6	<0.3	37	-	
5/20/1991	28,480	26,811	579	-	<0.3	<0.3	<0.3	<0.9	-	-	150	0.83	1.4	29	-	
5/28/1991	29,310	27,641	104	-	<0.3	<0.3	<0.3	<0.9	-	-	<0.3	<0.3	<0.3	<0.9	-	
6/3/1991	33,080	31,411	628	-	<0.3	<0.3	<0.3	<0.9	-	-	58	4	<0.3	33	-	
6/10/1991	36,939	35,270	551	-	<0.3	<0.3	<0.3	<0.9	-	-	45	<0.3	<0.3	16	-	
6/17/1991	40,673	39,004	533	-	<0.3	<0.3	<0.3	<0.9	-	-	69	4.9	0.9	21	-	
6/24/1991	44,453	42,784	540	-	<0.3	<0.3	<0.3	<0.9	-	-	5.4	2	<0.3	6.6	-	
7/1/1991	48,173	46,504	531	-	<0.5	<0.5	<1	<1	-	-	14	15	<1	9.1	-	
7/8/1991	51,681	50,012	501	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	6.9	-	
7/15/1991	55,186	53,517	501	-	<0.5	<0.5	<1	<1	-	-	<0.5	0.6	<1	6.3	-	
7/22/1991	62,150	60,481	995	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	2.6	-	
7/29/1991	62,150	60,481	-	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	1.2	19	-	
8/5/1991	63,241	61,572	156	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	<1	-	
8/12/1991	66,091	64,422	407	-	<0.5	<0.5	<1	<1	-	-	2.6	<0.5	<1	12	-	
8/19/1991	67,649	65,980	223	-	<0.5	<0.5	<1	<1	-	-	20	3.3	2.8	70	-	
8/26/1991	70,514	68,845	409	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	1.2	19	-	
9/9/1991	70,564	68,895	4	-	<0.5	<0.5	<1	<1	-	-	270	10	13	69	-	
9/16/1991	73,526	71,857	423	System shut down due to damaged compressor pump						-	-	-	-	-	-	-
10/7/1991	73,526	71,857	-	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.8	-	
10/14/1991	74,516	72,847	141	-	<0.5	<0.5	<1	<1	-	-	60	1.1	<1	23	-	
10/21/1991	76,091	74,422	225	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	<1	-	
10/28/1991	83,242	81,573	1,022	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	14	-	
11/3/1991	83,242	81,573	-	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.1	-	
11/11/1991	84,351	82,682	139	-	<0.5	<0.5	<1	<1	-	-	99	1.9	<1	14	-	
11/18/1991	85,647	83,978	185	-	<0.5	<0.5	<1	<1	-	-	42	1	1	10	-	
11/25/1991	89,512	87,843	552	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.9	-	
12/3/1991	93,407	91,738	487	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.8	-	
12/9/1991	96,210	94,541	467	-	<0.5	<0.5	<1	<1	-	-	<0.5	<0.5	<1	3.2	-	
12/16/1991	99,045	97,376	405	-	<0.5	<0.5	<0.5	<0.5	-	-	1.3	<0.5	<0.5	1.5	-	
12/23/1991	102,334	100,665	470	-	<0.5	<0.5	<0.5	<0.5	-	-	1.7	<0.5	<0.5	2.4	-	
12/30/1991	105,124	103,455	399	-	<0.5	<0.5	<0.5	<0.5	-	-	22.6	1.2	0.7	4.9	-	
1/15/1992	115,691	114,022	660	-	<0.5	<0.5	<0.5	<0.5	-	-	130	11	<0.5	50	-	
2/10/1992	124,846	123,177	352	-	<0.5	<0.5	<0.5	<0.5	-	-	20	0.51	<0.5	3.6	-	
3/9/1992	149,965	148,296	897	<200	<0.5	<0.5	<0.5	<0.5	-	12,000	2,100	400	170	2,100	-	
4/13/1992	166,567	166,898	531	<200	<0.5	<0.5	<0.5	<0.5	-	2,100	280	3.9	<2.5	98	-	
5/11/1992	187,170	185,501	664	<200	<0.5	0.7	<0.5	<0.5	-	<200	<0.5	<0.5	<0.5	<0.5	-	
6/8/1992	190,490	188,821	119	-	<0.5	<0.5	<0.5	<0.5	-	-	44	3.7	0.7	64	-	
7/6/1992	197,080	195,411	235	-	-	-	-	-	-	-	-	-	-	-	-	
7/13/1992	197,890	196,221	116	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	
7/13/1992	197,890	196,221	-	System shut down for repair of electrical motor						-	-	-	-	-	-	-
8/10/1992	197,890	196,221	-	Restart the system						-	-	-	-	-	-	-
8/17/1992	201,300	199,631	487	-	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	
9/14/1992	209,647	207,978	298	-	<0.5	<0.5	<0.5	<1	-	-	<0.5	<0.5	<0.5	<1	-	
10/5/1992	217,360	215,691	367	<200	<0.5	<0.5	<0.5	<1	-	<200	<0.5	<0.5	<0.5	<1	-	
11/09/92	225,780	224,111	241	-	<0.5	<0.5	<0.5	<1	-	-	1.1	0.5	<0.5	10	-	

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

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT							
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L		
12/14/92	243,048	241,379	493	-	<0.5	<0.5	<0.5	<1	-	-	720	46	<10	1,700	-		
01/04/93	252,510	250,841	451	-	<0.5	<0.5	<0.5	<1	-	-	400	32	<25	520	-		
02/15/93	266,210	264,541	326	<200	<0.5	<0.5	<0.5	<1	-	9,000	1,400	330	260	1,200	-		
03/08/93	269,330	267,661	149	-	<0.5	<0.5	<0.5	<1	-	-	1,100	150	7.5	1,000	-		
04/26/93	271,290	269,621	40	<100	<0.5	<0.5	<0.5	<1	-	7,200	1,100	100	25	780	-		
04/26/93	271,290	269,621	-	System shut down fo repair													
07/15/93	272,577	270,908	16	Restart the system													
08/11/93	284,230	282,561	432	-	<0.5	<0.5	<0.5	<1	-	-	1.3	<0.5	<0.5	1.6	-		
09/16/93	298,832	297,163	406	<60	<0.3	<0.3	<0.3	<0.6	-	<60	<0.3	<0.3	<0.3	<0.6	-		
10/08/93	305,641	303,972	310	-	-	-	-	-	-	-	-	-	-	-	-		
10/11/93	307,068	305,399	476	<60	<0.3	<0.3	<0.3	<0.6	-	<60	<0.3	<0.3	<0.3	<0.6	-		
10/15/93	308,495	306,826	357	-	-	-	-	-	-	-	-	-	-	-	-		
11/12/93	318,203	316,534	347	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-		
12/10/93	329,947	328,278	419	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-		
01/13/94	345,860	344,191	468	-	<0.3	<0.3	<0.3	<0.5	-	-	<0.3	<0.3	<0.3	<0.5	-		
02/10/94	359,662	357,993	493	-	<0.3	<0.3	<0.3	<0.5	-	-	430	41	36	480	-		
02/18/94	618,620	357,993	-	Changed air filters. The water flowmeter jumped from 359,662 to 618,620.													
03/10/94	627,540	366,913	446	-	<0.3	<0.3	<0.3	<0.5	-	-	<0.3	<0.3	<0.3	7.7	-		
04/14/94	645,330	384,703	508	<50	<0.3	<0.3	<0.3	<0.5	-	170	1.5	<0.3	0.38	0.73	-		
05/19/94	653,520	392,893	234	<50	<0.3	<0.3	<0.3	<0.5	-	1,500	46	4.1	0.5	84	-		
06/16/94	664,015	403,388	375	<50	<0.3	<0.3	<0.3	<0.5	-	12,000	860	37	<13	1,600	-		
07/14/94	672,750	412,123	312	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-		
08/11/94	681,920	421,293	328	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-		
09/15/94	692,083	431,456	290	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-		
10/17/94	699,979	439,352	247	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-		
11/14/94	712,539	451,912	449	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-		
12/19/94	734,620	473,993	631	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-		
01/10/95	742,072	481,445	339	-	-	-	-	-	-	-	-	-	-	-	-		
01/16/95	742,074	481,447	0	System shut down for repair of compressor pump													
02/06/95	742,074	481,447	-	Restart the system													
02/13/95	744,063	483,436	284	<50	<0.3	<0.3	<0.5	<0.5	-	<50	<0.3	<0.3	<0.5	<0.5	-		
03/13/95	758,930	498,303	531	<100	<0.5	<0.5	<0.5	<1	-	1,300	<0.5	<0.5	<0.5	<1	-		
04/17/95	768,276	507,649	267	<100	<0.5	<0.5	<0.5	<1	-	6,200	410	73	97	280	-		
05/15/95	780,716	520,089	444	<100	<0.5	<0.5	<0.5	<1	-	1,300	0.6	<0.5	<0.5	<1	-		
06/12/95	784,514	523,887	136	<100	<0.5	<0.5	<0.5	<1	-	<100	<0.5	<0.5	<0.5	<1	-		
07/18/95	794,158	533,531	268	<100	<0.5	<0.5	<0.5	<1	-	1,100	<0.5	<0.5	<0.5	<1	-		
08/14/95	795,216	534,589	39	<100	<0.5	<0.5	<0.5	<1	-	170	<0.5	<0.5	<0.5	<1	-		
09/06/95	797,631	537,004	105	<100	<0.5	<0.5	<0.5	<1	-	1,320	<0.5	<0.5	<0.5	<1	-		
10/17/95	800,316	539,689	65	<100	<0.5	<0.5	<0.5	<1	-	2,400	26	2.7	3.9	46	-		
11/20/95	806,264	545,637	175	150	<0.3	<0.3	<0.3	<0.5	-	450	0.31	<0.3	<0.3	<0.5	-		
12/11/95	809,236	548,609	142	300	<0.3	<0.3	<0.3	0.59	-	470	<0.3	<0.3	<0.3	<0.5	-		
01/15/96	822,734	562,107	386	510	<0.3	<0.3	<0.3	<0.5	-	900	0.39	<0.3	<0.3	<0.5	-		
02/19/96	848,213	587,586	728	800	<0.3	0.57	<0.3	0.83	-	1700	23	3.7	<0.3	80	-		
03/19/96	849,587	588,960	47	930	<0.3	<0.3	<0.3	<0.5	-	1,600	5.5	1.4	<0.3	94	-		
04/15/96	852,042	591,415	91	990	<0.3	<0.3	<0.3	<0.5	-	1,100	0.43	<0.3	<0.3	<0.5	-		
05/13/96	890,214	629,587	1,363	840	<0.3	<0.3	<0.3	<0.5	-	910	<0.3	<0.3	<0.3	<0.5	-		
05/13/96	890,214	629,587	-	System shut down for carbon change													
06/14/96	890,214	629,587	-	Restart the system													
06/18/96	890,818	630,191	151	<50	<0.3	<0.3	<0.3	<0.5	-	1,000	92	8.7	3.4	55	-		
07/01/96	892,781	632,154	151	-	-	-	-	-	-	-	-	-	-	-	-		

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 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
07/08/96	894,210	633,583	204	System shut down due to burglary and damaged air compressor											
08/05/96	894,210	633,583	-	Restart the system											
08/13/96	896,220	635,593	251	<50	<0.3	<0.3	<0.3	<0.5	-	3,500	160	110	220	650	-
09/23/96	899,410	638,783	78	<50	<0.3	<0.3	<0.3	<0.5	-	<50	0.49	<0.3	<0.3	<0.5	-
10/09/96	899,845	639,218	27	<50	<0.3	<0.3	<0.3	<0.5	-	730	1.7	0.42	2.1	2.5	-
11/11/96	901,348	640,721	46	<50	<0.3	<0.3	<0.3	<0.5	-	81	<0.3	<0.3	<0.3	<0.5	-
12/09/96	901,576	640,949	8	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
01/13/97	904,630	644,003	87	<50	<0.3	<0.3	<0.3	<0.5	-	13,000	590	250	180	850	-
02/10/97	912,610	651,983	285	82	<0.3	0.38	<0.3	<0.5	-	700	0.92	0.75	<0.3	4.1	-
03/10/97	921,020	660,393	300	<50	<0.3	<0.3	<0.3	<0.5	-	600	<0.3	<0.3	<0.3	<0.5	-
04/14/97	932,410	671,783	325	<50	<0.3	<0.3	<0.3	<0.5	-	4,400	<0.3	<0.3	<0.3	<0.5	-
05/12/97	941,028	680,401	308	<50	<0.3	<0.3	<0.3	<0.5	-	5,600	7.3	0.32	<0.3	17	-
06/23/97	943,183	682,556	51	-	-	-	-	-	-	-	-	-	-	-	-
07/07/97	945,821	685,194	188	<50	<0.3	<0.3	<0.3	<0.5	-	1,500	3.4	<0.3	<0.3	26	-
08/04/97	951,020	690,393	186	-	-	-	-	-	-	-	-	-	-	-	-
09/02/97	957,933	697,306	238	System shut down due to stolen air compressor											
10/06/97	961,030	700,403	91	-	-	-	-	-	-	-	-	-	-	-	-
10/16/97	961,077	700,450	5	<50	<0.3	<0.3	<0.3	<0.5	-	550	<0.3	<0.3	<0.3	<0.5	-
11/17/97	970,920	710,293	308	-	-	-	-	-	-	-	-	-	-	-	-
12/23/97	986,016	725,389	419	-	-	-	-	-	-	-	-	-	-	-	-
01/05/98	991,520	730,893	423	-	-	-	-	-	-	-	-	-	-	-	-
01/07/98	992,365	731,738	423	<50	<0.3	<0.3	<0.3	<0.5	-	65,000	690	8,400	3,100	20,000	-
02/02/98	996,874	736,247	173	-	-	-	-	-	-	-	-	-	-	-	-
02/09/98		736,247	-	System shut down due to the UST replacement and station remodeling											
02/17/98		736,247	-	<50	<0.3	<0.3	<0.3	<0.5	-	35,000	150	<15	<15	8,900	-
04/13/98	53,000	736,247	-	Replaced carbons and restarted system with new meter (53,000)											
4/13 - 6/1/98	-	736,247	-	System was undergoing several maintenance / piping / hose replacement											
06/01/98	53,780	737,027	16	-	-	-	-	-	-	-	-	-	-	-	-
07/14/98	56,905	740,152	73	<50	<0.3	<0.3	<0.3	<0.5	-	3,500	14	0.56	<0.3	26	-
08/13/98	59,426	742,673	84	-	-	-	-	-	-	-	-	-	-	-	-
09/11/98	62,356	745,603	101	-	-	-	-	-	-	-	-	-	-	-	-
10/15/98	62,714	745,961	11	<50	<0.3	<0.3	<0.3	<0.5	-	2,200	21	4	<0.3	100	-
11/06/98	62,952	746,199	11	-	-	-	-	-	-	-	-	-	-	-	-
11/20/98	-	746,199	-	System shut down for flowmeter replacement											
12/01/98	0.0	746,199	-	Restart the system with flowmeter at 000											
12/31/98	5,340.0	751,539	178	-	-	-	-	-	-	-	-	-	-	-	-
01/11/99	15,020.0	761,219	880	System shut down											
1/11 - 2/1/99	-	761,219	-	System was undergoing maintenance for the compressor											
01/20/99	-	761,219	-	<50	<0.3	<0.3	<0.3	<0.5	-	110	0.43	0.42	<0.3	<0.5	260
02/01/99	15,600.0	761,799	28	Restart system											
02/12/99	22,840.0	769,039	658	-	-	-	-	-	-	-	-	-	-	-	-
02/22/99	22,840.0	769,039	-	System shut down for carbon canister replacement											
03/26/99	22,840.0	769,039	-	Restart the system											
03/31/99	24,620.0	770,819	356	-	-	-	-	-	-	-	-	-	-	-	-
04/16/99	29,605.0	775,804	312	<50	<0.3	<0.3	<0.3	<0.5	<5	<50	<0.3	<0.3	<0.3	<0.5	<5
05/11/99	36,010.0	782,209	256	-	-	-	-	-	-	-	-	-	-	-	-
05/25/99	46,000.0	792,199	714	System shut down due to carbon canister leaking											
09/02/99	46,000.0	792,199	-	Restart system											
09/17/99	46,217.0	792,416	14	-	-	-	-	-	-	-	-	-	-	-	-
10/07/99	46,809.0	793,008	30	<50	<0.3	<0.3	<0.3	<0.5	11	65	<0.3	<0.3	<0.3	<0.5	120

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
10/21/99	47,278.0	793,477	34	System shut down for carbon change											
11/24/99	47,283.0	793,482	0	Restart system											
12/30/99	49,386.0	795,585	58	-	-	-	-	-	-	-	-	-	-	-	-
01/26/00	50,569.0	796,768	44	<50	<0.3	<0.3	<0.3	<0.5	-	<50	<0.3	<0.3	<0.3	<0.5	-
02/25/00	51,983.0	798,182	47	-	-	-	-	-	-	-	-	-	-	-	-
03/24/00	54,603.0	800,802	94	-	-	-	-	-	-	-	-	-	-	-	-
04/19/00	56,754.0	802,953	83	<5	<0.25	<0.25	<0.25	<0.5	-	<50	1.3	<0.25	<0.25	<0.5	<5
04/30/00	58,022.0	804,221	115	-	-	-	-	-	-	-	-	-	-	-	-
05/26/00	60,086.0	806,285	79	-	-	-	-	-	-	923	<0.6	2	85	80	*8,350/4,810
06/16/00	61,889.0	808,088	86	<50	<0.3	<0.3	<0.3	<0.6	<5	3,820	<0.3	<0.3	<0.3	<0.6	3,740
07/26/00	65,987.0	812,186	102	<50	<0.3	<0.3	<0.3	<0.6	<5	<50	<0.3	<0.3	<0.3	<0.6	<5
08/25/00	68,630.0	814,829	88	-	-	-	-	-	-	-	-	-	-	-	-
09/29/00	85,661.0	831,860	487	-	-	-	-	-	-	-	-	-	-	-	-
10/13/00	96,212.0	842,411	754	-	-	-	-	-	-	-	-	-	-	-	-
10/20/00	99,700.0	845,899	498	Shut down system for QWS and replaced flowmeter starting at 000 (old meter estimated at 99,700). System restarted on 10/25/00 after QWS											
10/25/00	0.0	845,899	-	<50	<0.18	<0.14	<0.18	<0.26	<0.24	17,100	111	121	141	972	998
10/27/00	2,160	848,059	1,080	-	-	-	-	-	-	-	-	-	-	-	-
11/03/00	7,420	853,319	751	-	-	-	-	-	-	-	-	-	-	-	-
11/24/00	16,560	862,459	435	-	-	-	-	-	-	-	-	-	-	-	-
12/22/00	51,530	897,429	1,249	-	-	-	-	-	-	-	-	-	-	-	-
01/10/01	54,520	900,419	157	<50	<0.18	<0.14	<0.18	<0.26	<0.24	10,000	384	223	<0.18	1,330	11,600
02/19/01	99,640	945,539	1,128	-	-	-	-	-	-	-	-	-	-	-	-
03/19/01	144,170	990,069	1,590	-	-	-	-	-	-	-	-	-	-	-	-
04/09/01	167,050	1,012,949	1,090	378	<0.18	<0.14	<0.18	<0.26	475	4,040	191	4	42	38	4,990
04/13/01	169,210	1,015,109	540	Shut down system for replacement of carbon drums											
04/18/01	169,210	1,015,109	-	Restart system											
04/23/01	177,140	1,023,039	1,586	93	<0.18	<0.14	<0.18	<0.26	132	1,400	<0.18	<0.14	<0.18	<0.26	3,240
05/02/01	186,800	1,032,699	1,073	Shut down system for carbon change											
05/18/01	186,900	1,032,799	6	Restart system											
05/30/01	200,850	1,046,749	1,163	<50	<0.18	<0.14	<0.18	<0.26	<0.24	3,100	15	<0.14	1	2	*8,510 / 5,780
06/25/01	266,720	1,112,619	2,533	-	-	-	-	-	-	-	-	-	-	-	-
07/09/01	278,760	1,124,659	860	<50	<0.18	<0.14	<0.18	<0.26	<0.24	748	15	<0.14	2	2.7	1,440
08/13/01	399,700	1,245,599	3,455	-	-	-	-	-	-	-	-	-	-	-	-
09/24/01	451,240	1,297,139	1,227	-	-	-	-	-	-	-	-	-	-	-	-
10/01/01	488,310	1,334,209	5,296	<50	<0.18	<0.14	<0.18	<0.26	<0.24	956	1.2	<0.14	<0.18	<0.26	878
11/12/01	636,260	1,482,159	3,523	-	-	-	-	-	-	-	-	-	-	-	-
12/31/01	674,080	1,519,979	772	-	-	-	-	-	-	-	-	-	-	-	-
01/14/02	688,450	1,534,349	1,026	<50	<0.18	<0.14	<0.18	<0.26	<0.24	232	1	1	<0.18	<0.26	363
02/18/02	738,420	1,584,319	1,428	-	-	-	-	-	-	-	-	-	-	-	-
03/25/02	814,570	1,660,469	2,176	-	-	-	-	-	-	-	-	-	-	-	-
04/08/02	828,510	1,674,409	996	<50	<0.18	<0.14	<0.18	<0.26	<0.24	105	<0.18	<0.14	<0.18	<0.26	157
04/22/02	895,910	1,741,809	4,814	-	-	-	-	-	-	-	-	-	-	-	-
05/06/02	895,920	1,741,819	1	System off; Restart											
05/13/02	929,130	1,775,029	4,744	-	-	-	-	-	-	-	-	-	-	-	-
06/03/02	-	1,839,639	-	-	<0.5	<0.7	<0.8	<3.3	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
06/03/02	993,740	1,839,639	3,077	<50	<0.18	<0.14	<0.18	<0.26	<0.24	Split-sample results (sample collected by us)					
06/24/02	1,001,590	1,847,489	374	-	-	-	-	-	-	-	-	-	-	-	-
07/08/02	-	1,847,489	-	<50	<0.18	<0.14	<0.18	<0.26	<0.24	4,710	1	1.2	<0.18	2	6,980
07/12/02	1,051,430	1,897,329	2,769	-	-	-	-	-	-	-	-	-	-	-	-
07/29/02	1,052,820	1,898,719	82	System shut down for carbon change											

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Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
08/16/02	1,052,820	1,898,719	-	Restart	-	-	-	-	-	-	-	-	-	-	-
08/30/02	1,069,050	1,914,949	1,159	-	-	-	-	-	-	-	-	-	-	-	-
09/20/02	-	1,952,309	-	-	<0.5	<0.7	<0.8	<3.3	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
09/20/02	1,106,410	1,952,309	1,779	<50	<0.1	<0.15	<0.06	-	Split-sample results (sample collected by us, analysis by EPA 624 & 8015M)						
09/30/02	1,110,180	1,956,079	377	-	-	-	-	-	-	-	-	-	-	-	-
10/07/02	1,114,720	1,960,619	649	<50	<0.18	<0.14	<0.18	<0.26	<0.24	128	<0.18	<0.14	<0.18	<0.26	95
10/28/02	1,127,540	1,973,439	610	-	-	-	-	-	-	-	-	-	-	-	-
11/25/02	1,149,730	1,995,629	793	-	-	-	-	-	-	-	-	-	-	-	-
12/20/02	1,166,840	2,012,739	684	-	-	-	-	-	-	-	-	-	-	-	-
12/30/02	1,173,420	2,019,319	658	-	-	-	-	-	-	-	-	-	-	-	-
01/06/03	1,182,610	2,028,509	1,313	<50	<0.14	1.2	<0.08	2.4	<2.0	9,860	<1.4	29	14	2,420	205
01/13/03	1,189,320	2,035,219	959	Shut down for QWS											
01/15/03	1,189,320	2,035,219	-	Restart	-	-	-	-	-	-	-	-	-	-	-
02/24/03	1,223,450	2,069,349	853	-	-	-	-	-	-	-	-	-	-	-	-
03/10/03	1,238,640	2,084,539	1,085	-	-	-	-	-	-	-	-	-	-	-	-
03/17/03	1,257,710	2,103,609	2,724	System off	-	-	-	-	-	-	-	-	-	-	-
03/28/03	1,257,710	2,103,609	-	Restart	-	-	-	-	-	-	-	-	-	-	-
03/31/03	1,266,150	2,112,049	2,813	-	-	-	-	-	-	-	-	-	-	-	-
04/02/03	1,272,100	2,117,999	2,975	-	-	-	-	-	-	-	-	-	-	-	-
04/07/03	1,286,160	2,132,059	2,812	<15	<0.04	2.2	<0.02	<0.06	<0.03	14,000	20	20	2.2	14	9,090
04/14/03	1,294,060	2,139,959	1,129	System shut down for QWS											
04/16/03	1,294,080	2,139,979	10	Restart	-	-	-	-	-	-	-	-	-	-	-
04/21/03	1,299,660	2,145,559	1,116	-	-	-	-	-	-	-	-	-	-	-	-
04/28/03	1,302,140	2,148,039	354	-	-	-	-	-	-	-	-	-	-	-	-
05/05/03	1,302,710	2,148,609	81	System shut down for carbon change											
05/07/03	1,302,710	2,148,609	-	Restart	-	-	-	-	-	-	-	-	-	-	-
05/12/03	1,303,230	2,149,129	104	-	-	-	-	-	-	-	-	-	-	-	-
05/19/03	1,318,460	2,164,359	2,176	-	-	-	-	-	-	-	-	-	-	-	-
05/30/03	1,321,830	2,167,729	306	-	-	-	-	-	-	-	-	-	-	-	-
06/02/03	1,327,490	2,173,389	1,887	-	-	-	-	-	-	-	-	-	-	-	-
06/09/03	1,336,370	2,182,269	1,269	-	-	-	-	-	-	-	-	-	-	-	-
06/16/03	1,347,480	2,193,379	1,587	-	-	-	-	-	-	-	-	-	-	-	-
06/23/03	1,359,690	2,205,589	1,744	-	-	-	-	-	-	-	-	-	-	-	-
07/01/03	1,366,090	2,211,989	800	-	-	-	-	-	-	-	-	-	-	-	-
07/07/03	1,369,730	2,215,629	607	System shut down for QWS											
07/15/03	1,369,730	2,215,629	-	Restart	-	-	-	-	-	-	-	-	-	-	-
07/21/03	1,382,630	2,228,529	2,150	<15	<0.04	1.0	<0.02	<0.06	<0.03	7,710	<0.04	<0.02	<0.02	<0.06	3,550
07/28/03	1,389,840	2,235,739	1,030	-	-	-	-	-	-	-	-	-	-	-	-
08/04/03	1,408,710	2,254,609	2,696	-	-	-	-	-	-	-	-	-	-	-	-
08/15/03	1,411,520	2,257,419	255	System shut down for carbon change											
08/29/03	1,411,560	2,257,459	3	Restart	-	-	-	-	-	-	-	-	-	-	-
09/03/03	1,419,210	2,265,109	1,530	-	-	-	-	-	-	-	-	-	-	-	-
09/12/03	1,423,520	2,269,419	479	-	-	-	-	-	-	-	-	-	-	-	-
09/15/03	1,427,810	2,273,709	1,430	-	-	-	-	-	-	-	-	-	-	-	-
09/22/03	1,429,700	2,275,599	270	System shut down for installation of new 24-hour timer											
09/26/03	1,429,700	2,275,599	-	Restart	-	-	-	-	-	-	-	-	-	-	-
09/29/03	1,430,560	2,276,459	287	-	-	-	-	-	-	-	-	-	-	-	-
10/06/03	1,431,140	2,277,039	83	System shut down for QWS											
10/08/03	1,431,140	2,277,039	-	Restart	-	-	-	-	-	-	-	-	-	-	-
10/10/03	-	-	-	-	< 0.50	< 0.70	< 0.80	< 3.30	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					



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Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT						
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	
10/10/03	1,432,290	2,278,189	575	<15	<0.04	<0.02	<0.02	<0.06	<0.03	16,200	<0.04	4.4	4.8	46	8,700	
10/17/03	1,433,790	2,279,689	214	-	-	-	-	-	-	-	-	-	-	-	-	
10/22/03	-	-	-	-	< 0.50	< 0.70	< 0.80	< 3.30	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)						
10/22/03	1,434,590	2,280,489	160	<15	<0.04	<0.02	<0.02	<0.06	<0.03	Split-sample results (sample collected by us)						
10/27/03	1,435,610	2,281,509	204	-	-	-	-	-	-	-	-	-	-	-	-	
11/03/03	1,438,740	2,284,639	447	-	-	-	-	-	-	-	-	-	-	-	-	
11/14/03	1,443,620	2,289,519	444	-	-	-	-	-	-	-	-	-	-	-	-	
11/21/03	1,447,510	2,293,409	556	-	-	-	-	-	-	-	-	-	-	-	-	
12/05/03	1,452,410	2,298,309	350	-	-	-	-	-	-	-	-	-	-	-	-	
12/09/03	1,458,320	2,304,219	1,478	-	-	-	-	-	-	-	-	-	-	-	-	
12/17/03	1,462,410	2,308,309	511	-	-	-	-	-	-	-	-	-	-	-	-	
12/26/03	1,468,630	2,314,529	691	-	-	-	-	-	-	-	-	-	-	-	-	
12/31/03	1,469,710	2,315,609	216	-	-	-	-	-	-	-	-	-	-	-	-	
01/06/04	1,472,000	2,317,899	382	<15	<0.04	<0.02	<0.02	<0.06	<0.03	7,900	658	1,560	62	1,090	2,170	
01/14/04	1,474,650	2,320,549	331	System shut down for QWS; Restarted 1/15/04						-	-	-	-	-	-	-
01/28/04	-	-	-	-	< 0.50	< 0.70	< 0.80	< 3.30	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)						
01/28/04	1,485,790	2,331,689	857	<15	<0.04	<0.02	<0.02	<0.06	<0.03	Split-sample results (sample collected by us)						
02/04/04	1,492,340	2,338,239	936	-	-	-	-	-	-	-	-	-	-	-	-	
02/10/04	1,494,550	2,340,449	368	-	-	-	-	-	-	-	-	-	-	-	-	
02/20/04	1,498,790	2,344,689	424	-	-	-	-	-	-	-	-	-	-	-	-	
02/25/04	1,499,360	2,345,259	114	-	-	-	-	-	-	-	-	-	-	-	-	
03/03/04	1,514,700	2,360,599	2,191	-	-	-	-	-	-	-	-	-	-	-	-	
03/09/04	1,517,300	2,363,199	433	-	-	-	-	-	-	-	-	-	-	-	-	
03/17/04	1,519,100	2,364,999	225	-	-	-	-	-	-	-	-	-	-	-	-	
03/24/04	1,524,600	2,370,499	786	-	-	-	-	-	-	-	-	-	-	-	-	
04/01/04	1,529,300	2,375,199	588	-	-	-	-	-	-	-	-	-	-	-	-	
04/07/04	1,531,200	2,377,099	317	<15	<0.22	<0.32	<0.31	<0.4	<0.18	1,380	113	93	16	76	191	
04/14/04	1,533,000	2,378,899	257	System shut down for QWS on 4/7; Restarted 4/14						-	-	-	-	-	-	-
04/22/04	1,576,400	2,422,299	5,425	-	-	-	-	-	-	-	-	-	-	-	-	
04/28/04	1,623,500	2,469,399	7,850	-	-	-	-	-	-	-	-	-	-	-	-	
05/06/04	1,668,920	2,514,819	5,678	-	-	-	-	-	-	-	-	-	-	-	-	
05/13/04	1,691,100	2,536,999	3,169	-	-	-	-	-	-	-	-	-	-	-	-	
05/20/04	1,726,500	2,572,399	5,057	-	-	-	-	-	-	-	-	-	-	-	-	
05/28/04	1,748,910	2,594,809	2,801	-	-	-	-	-	-	-	-	-	-	-	-	
06/04/04	1,749,320	2,595,219	59	Found system off; for replacement of on and off switch						-	-	-	-	-	-	-
06/11/04	1,749,320	2,595,219	-	Restarted						-	-	-	-	-	-	-
06/16/04	1,751,910	2,597,809	518	-	-	-	-	-	-	-	-	-	-	-	-	
06/22/04	1,753,550	2,599,449	273	-	-	-	-	-	-	-	-	-	-	-	-	
07/02/04	1,756,530	2,602,429	298	-	-	-	-	-	-	-	-	-	-	-	-	
07/08/04	1,759,110	2,605,009	430	<15	<0.22	<0.32	<0.31	<0.4	<0.18	652	31	<0.32	<0.31	2.1J	383	
07/15/04	1,759,260	2,605,159	21	-	-	-	-	-	-	-	-	-	-	-	-	
07/22/04	1,760,630	2,606,529	196	-	-	-	-	-	-	-	-	-	-	-	-	
07/28/04	1,762,810	2,608,709	363	Shut down system for carbon change						-	-	-	-	-	-	-
08/05/04	1,762,810	2,608,709	-	Restarted						-	-	-	-	-	-	-
08/12/04	1,765,370	2,611,269	366	-	-	-	-	-	-	-	-	-	-	-	-	
08/20/04	1,767,950	2,613,849	323	-	-	-	-	-	-	-	-	-	-	-	-	
08/27/04	1,771,100	2,616,999	450	-	-	-	-	-	-	-	-	-	-	-	-	
09/03/04	1,773,750	2,619,649	379	-	-	-	-	-	-	-	-	-	-	-	-	
09/07/04	1,777,590	2,623,489	960	-	-	-	-	-	-	-	-	-	-	-	-	
09/10/04	1,778,460	2,624,359	290	Shut down system due to operator vacation						-	-	-	-	-	-	-

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
09/29/04	1,778,460	2,624,359	-	Restarted											
10/06/04	1,779,260	2,625,159	114	<15	<0.22	<0.32	<0.31	<0.4	<0.18	<15	<0.22	<0.32	<0.31	<0.4	20
10/12/04	1,782,540	2,628,439	547	Shut down system for QWS											
10/21/04	1,782,680	2,628,579	16	Restarted											
10/27/04	1,784,630	2,630,529	325	-	-	-	-	-	-	-	-	-	-	-	-
11/03/04	1,784,680	2,630,579	7	-	-	-	-	-	-	-	-	-	-	-	-
11/11/04	1,787,490	2,633,389	351	-	-	-	-	-	-	-	-	-	-	-	-
11/19/04	1,789,350	2,635,249	233	-	-	-	-	-	-	-	-	-	-	-	-
12/01/04	1,789,800	2,635,699	38	-	-	-	-	-	-	-	-	-	-	-	-
12/10/04	1,792,780	2,638,679	331	-	-	-	-	-	-	-	-	-	-	-	-
12/15/04	1,795,460	2,641,359	536	-	-	-	-	-	-	-	-	-	-	-	-
12/22/04	1,798,000	2,643,899	363	-	-	-	-	-	-	-	-	-	-	-	-
12/29/04	1,800,580	2,646,479	369	-	-	-	-	-	-	-	-	-	-	-	-
01/05/05	1,803,140	2,649,039	366	<15	<0.22	<0.32	<0.31	<0.4	<0.18	291	9.1	<0.32	1.2 J	<0.4	72
01/13/05	1,803,290	2,649,189	19	System turned off for QWS on 1/5/05; Restarted on 1/13/05											
01/20/05	1,804,020	2,649,919	104	Shut down system for repair and upgrade											
04/30/05	1,804,020	2,649,919	-	System still off pending repairs and upgrade											
05/10/05	1,804,020	2,649,919	-	Restarted system with MW-3 only											
05/20/05	1,805,010	2,650,909	99	Added MW-4 to the system											
05/26/05	1,807,630	2,653,529	437	-	-	-	-	-	-	-	-	-	-	-	-
06/03/05	1,812,100	2,657,999	559	-	-	-	-	-	-	-	-	-	-	-	-
06/10/05	1,816,540	2,662,439	634	-	-	-	-	-	-	-	-	-	-	-	-
06/17/05	1,819,870	2,665,769	476	Compressor needs repair											
06/24/05	1,823,140	2,669,039	467	Replace with new pump MW-3											
06/29/05	1,827,540	2,673,439	880	-	-	-	-	-	-	-	-	-	-	-	-
07/08/05	1,829,830	2,675,729	254	-	-	-	-	-	-	-	-	-	-	-	-
07/14/05	1,829,970	2,675,869	23	<2.9	<0.17	<0.22	<0.14	<0.38	-	4,270	130	3.6 J	348	188	2,790
07/22/05	1,832,760	2,678,659	349	-	-	-	-	-	-	-	-	-	-	-	-
07/26/05	1,833,920	2,679,819	290	Shut down system for QWS											
08/05/05	1,833,970	2,679,869	5	Restart system after QWS											
08/09/05	1,836,930	2,682,829	740	-	-	-	-	-	-	-	-	-	-	-	-
08/19/05	1,837,560	2,683,459	63	-	<0.10	<0.15	<0.06	<0.40	-	Split-sample results during EBMUD inspection & sampling					
08/25/05	1,837,920	2,683,819	60	Shut down system for carbon change											
09/01/05	1,837,980	2,683,879	9	Restarted											
09/09/05	1,838,530	2,684,429	69	-	-	-	-	-	-	-	-	-	-	-	-
09/16/05	1,841,230	2,687,129	386	-	-	-	-	-	-	-	-	-	-	-	-
09/23/05	1,843,410	2,689,309	311	-	-	-	-	-	-	-	-	-	-	-	-
09/30/05	1,844,820	2,690,719	201	-	-	-	-	-	-	-	-	-	-	-	-
10/06/05	1,845,250	2,691,149	72	<2.9	<0.10	<0.15	<0.06	<0.40	-	2,410	<3.2	<1.0	28 J	<3.0	1,990
10/11/05	1,846,030	2,691,929	156	System turned off for QWS on 10/11/05; Restarted on 10/14/05											
10/14/05	-	-	-	-	<0.05	<0.07	<0.08	<0.33	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
10/14/05	1,846,590	2,692,489	187	-	<0.10	<0.15	<0.06	<0.40	-	Split-sample results during EBMUD inspection & sampling					
10/21/05	1,847,810	2,693,709	174	-	-	-	-	-	-	-	-	-	-	-	-
11/02/05	1,849,720	2,695,619	159	-	-	-	-	-	-	-	-	-	-	-	-
11/08/05	-	-	-	-	<0.05	0.62	<0.08	<0.33	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)					
11/10/05	1,850,760	2,696,659	130	-	-	-	-	-	-	-	-	-	-	-	-
11/17/05	1,851,420	2,697,319	94	-	-	-	-	-	-	-	-	-	-	-	-
11/23/05	1,854,560	2,700,459	523	-	-	-	-	-	-	-	-	-	-	-	-
11/30/05	1,856,650	2,702,549	299	-	-	-	-	-	-	-	-	-	-	-	-
12/09/05	1,858,340	2,704,239	188	-	-	-	-	-	-	-	-	-	-	-	-

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT						
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	
12/15/05	1,859,780	2,705,679	240	-	-	-	-	-	-	-	-	-	-	-	-	
12/22/05	1,860,420	2,706,319	91	-	-	-	-	-	-	-	-	-	-	-	-	
12/30/05	1,862,470	2,708,369	256	-	-	-	-	-	-	-	-	-	-	-	-	
01/06/06	1,866,760	2,712,659	613	-	-	-	-	-	-	-	-	-	-	-	-	
01/11/06	1,867,740	2,713,639	196	698	<0.32	<0.10	<0.24	<0.30	-	6,120	210	<0.10	419	130	649	
01/18/06	1,870,240	2,716,139	357	Shut down system for QWS and carbon change						-	-	-	-	-	-	-
01/27/06	1,870,280	2,716,179	4	Restarted after QWS and carbon change						-	-	-	-	-	-	-
02/01/06	-	-	-	-	<0.70	<0.67	<0.65	<2.0	-	Outlet sampling results from EBMUD (sample collected by EBMUD inspector)						-
02/01/06	1,870,530	2,716,429	50	-	<0.17	<0.22	<0.14	<0.38	-	Split-sample results during EBMUD inspection & sampling						-
02/10/06	1,877,370	2,723,269	760	-	-	-	-	-	-	-	-	-	-	-	-	
02/17/06	1,879,230	2,725,129	266	-	-	-	-	-	-	-	-	-	-	-	-	
02/24/06	1,880,710	2,726,609	211	-	-	-	-	-	-	-	-	-	-	-	-	
03/01/06	1,882,270	2,728,169	312	-	-	-	-	-	-	-	-	-	-	-	-	
03/10/06	1,889,370	2,735,269	789	-	-	-	-	-	-	-	-	-	-	-	-	
03/17/06	1,889,660	2,735,559	41	-	-	-	-	-	-	-	-	-	-	-	-	
03/21/06	1,890,930	2,736,829	318	-	-	-	-	-	-	-	-	-	-	-	-	
03/29/06	1,891,880	2,737,779	119	-	-	-	-	-	-	-	-	-	-	-	-	
04/05/06	1,893,340	2,739,239	209	<5.6	<0.32	<0.10	<0.24	<0.30	-	1,520	72	<0.10	199	28	129	
04/11/06	1,895,480	2,741,379	357	-	-	-	-	-	-	-	-	-	-	-	-	
04/11/06	-	2,741,379	-	Shut down system for QWS						-	-	-	-	-	-	-
04/14/06	1,895,490	2,741,389	3	Restart system after QWS						-	-	-	-	-	-	-
04/21/06	1,897,130	2,743,029	234	-	-	-	-	-	-	-	-	-	-	-	-	
04/26/06	1,898,330	2,744,229	240	-	-	-	-	-	-	-	-	-	-	-	-	
05/03/06	1,900,240	2,746,139	273	-	-	-	-	-	-	-	-	-	-	-	-	
05/12/06	1,903,700	2,749,599	384	-	-	-	-	-	-	-	-	-	-	-	-	
05/19/06	1,905,570	2,751,469	267	-	-	-	-	-	-	-	-	-	-	-	-	
05/23/06	1,907,810	2,753,709	560	<5.6	<0.32	<0.10	<0.24	<0.30	-	683,000	3,600	135,000	25,100	165,000	-	
05/26/06	1,909,780	2,755,679	657	-	-	-	-	-	-	-	-	-	-	-	-	
06/02/06	1,911,010	2,756,909	176	-	-	-	-	-	-	-	-	-	-	-	-	
06/09/06	1,912,670	2,758,569	237	-	-	-	-	-	-	77,300	668	19,300	1,660	8,800	-	
06/16/06	1,914,330	2,760,229	237	-	-	-	-	-	-	-	-	-	-	-	-	
06/23/06	1,917,210	2,763,109	411	-	-	-	-	-	-	-	-	-	-	-	-	
06/27/06	1,919,740	2,765,639	633	-	-	-	-	-	-	-	-	-	-	-	-	
07/06/06	1,921,470	2,767,369	192	3,730	44	874	26	503	16	4,450	8.6 J	99	34 J	149	2,780	
07/14/06	1,921,980	2,767,879	64	-	-	-	-	-	-	-	-	-	-	-	-	
07/18/06	1,922,070	2,767,969	23	Shut down system for carbon change						-	-	-	-	-	-	-
08/04/06	1,922,090	2,767,989	1	System restarted after carbon change						-	-	-	-	-	-	-
08/04/06	1,922,090	2,767,989	1	<5.6	<0.32	<0.10	<0.24	<0.30	-	763	<0.32	<0.10	<0.24	<0.30	1040	
08/18/06	1,928,690	2,774,589	471	-	-	-	-	-	-	-	-	-	-	-	-	
08/25/06	1,929,580	2,775,479	127	-	-	-	-	-	-	-	-	-	-	-	-	
09/01/06	1,932,440	2,778,339	409	-	-	-	-	-	-	-	-	-	-	-	-	
09/08/06	1,936,240	2,782,139	543	-	-	-	-	-	-	-	-	-	-	-	-	
09/14/06	1,938,420	2,784,319	363	-	-	-	-	-	-	-	-	-	-	-	-	
09/20/06	1,939,710	2,785,609	215	-	-	-	-	-	-	-	-	-	-	-	-	
10/04/06	1,942,100	2,787,999	171	<5.6	<0.32	<0.10	<0.24	1.1 J	-	14,400	78	1,110	440	1,440	1,420	
10/13/06	1,945,320	2,791,219	358	-	-	-	-	-	-	-	-	-	-	-	-	
10/19/06	1,947,230	2,793,129	318	-	-	-	-	-	-	-	-	-	-	-	-	
10/24/06	1,948,670	2,794,569	288	Shut down system for QWS						-	-	-	-	-	-	-
10/27/06	1,948,670	2,794,569	-	Restart system after QWS						-	-	-	-	-	-	-
11/01/06	1,949,120	2,795,019	90	-	-	-	-	-	-	-	-	-	-	-	-	

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Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT					
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L
11/09/06	1,951,030	2,796,929	239	-	-	-	-	-	-	-	-	-	-	-	-
11/16/06	1,951,817	2,797,716	112	-	-	-	-	-	-	-	-	-	-	-	-
11/22/06	1,952,010	2,797,909	32	-	-	-	-	-	-	-	-	-	-	-	-
11/30/06	1,956,730	2,802,629	590	Shut down system for maintenance			-	-	-	-	-	-	-	-	-
12/01/06	1,956,730	2,802,629	-	Restarted system			-	-	-	-	-	-	-	-	-
12/07/06	1,958,510	2,804,409	297	-	-	-	-	-	-	-	-	-	-	-	-
12/12/06	1,959,720	2,805,619	242	Shut down system due to operator vacation			-	-	-	-	-	-	-	-	-
01/03/07	1,959,230	2,805,129	(22)	Restarted system			-	-	-	-	-	-	-	-	-
01/05/07	1,959,670	2,805,569	220	-	-	-	-	-	-	-	-	-	-	-	-
01/11/07	1,961,280	2,807,179	268	-	-	-	-	-	-	-	-	-	-	-	-
01/18/07	1,963,200	2,809,099	274	System shut down for QWS			-	-	-	-	-	-	-	-	-
01/24/07	1,963,200	2,809,099	-	<5.6	<0.17	<0.22	<0.14	<0.38	-	8,920	<1.6	115	91	612	68
01/25/07	1,963,860	2,809,759	660	-	-	-	-	-	-	-	-	-	-	-	-
02/02/07	1,967,120	2,813,019	408	-	-	-	-	-	-	-	-	-	-	-	-
02/06/07	1,969,320	2,815,219	550	-	-	-	-	-	-	-	-	-	-	-	-
02/16/07	1,971,040	2,816,939	172	-	-	-	-	-	-	-	-	-	-	-	-
02/19/07	1,971,760	2,817,659	240	-	-	-	-	-	-	-	-	-	-	-	-
02/28/07	1,978,320	2,824,219	729	-	-	-	-	-	-	-	-	-	-	-	-
03/16/07	1,983,620	2,829,519	331	-	-	-	-	-	-	-	-	-	-	-	-
03/23/07	1,985,120	2,831,019	214	-	-	-	-	-	-	-	-	-	-	-	-
03/30/07	1,987,330	2,833,229	316	-	-	-	-	-	-	-	-	-	-	-	-
04/05/07	1,989,120	2,835,019	298	-	-	-	-	-	-	-	-	-	-	-	-
04/12/07	1,991,300	2,837,199	311	<5.6	<0.17	<0.22	<0.14	<0.38	-	6,640	43	916	296	1,810	199
04/20/07	1,992,720	2,838,619	178	Shut down system for QWS			-	-	-	-	-	-	-	-	-
04/27/07	1,992,730	2,838,629	1	Restart system after QWS			-	-	-	-	-	-	-	-	-
05/03/07	1,994,500	2,840,399	295	-	-	-	-	-	-	-	-	-	-	-	-
05/10/07	2,002,410	2,848,309	1,130	-	-	-	-	-	-	-	-	-	-	-	-
05/17/07	2,004,320	2,850,219	273	-	-	-	-	-	-	-	-	-	-	-	-
05/25/07	2,004,810	2,850,709	61	-	-	-	-	-	-	-	-	-	-	-	-
06/01/07	2,005,210	2,851,109	57	-	-	-	-	-	-	-	-	-	-	-	-
06/14/07	2,006,540	2,852,439	102	-	-	-	-	-	-	-	-	-	-	-	-
06/19/07	2,008,320	2,854,219	356	-	-	-	-	-	-	-	-	-	-	-	-
06/21/07	2,008,740	2,854,639	210	-	-	-	-	-	-	15,800	186	1,890	410	2,060	97
06/29/07	2,016,480	2,862,379	968	-	-	-	-	-	-	-	-	-	-	-	-
07/06/07	2,014,260	2,864,599	317	-	-	-	-	-	-	-	-	-	-	-	-
07/13/07	2,013,420	2,865,439	120	-	-	-	-	-	-	-	-	-	-	-	-
07/20/07	2,015,230	2,867,249	259	-	-	-	-	-	-	-	-	-	-	-	-
07/24/07	2,015,620	2,867,639	98	Shut down system for QWS			-	-	-	-	-	-	-	-	-
07/27/07	2,015,670	2,867,689	17	Restart system after QWS			-	-	-	-	-	-	-	-	-
08/03/07	2,016,310	2,868,329	91	-	-	-	-	-	-	-	-	-	-	-	-
08/10/07	2,017,430	2,869,449	160	-	-	-	-	-	-	-	-	-	-	-	-
08/17/07	2,017,960	2,869,979	76	<5.6	<0.15	<0.12	<0.09	<0.26	-	-	-	-	-	-	-
08/24/07	2,018,100	2,870,119	20	-	-	-	-	-	-	-	-	-	-	-	-
08/31/07	2,018,210	2,870,229	16	-	-	-	-	-	-	-	-	-	-	-	-
09/07/07	2,018,630	2,870,649	60	Shut down system for repairs			-	-	-	-	-	-	-	-	-
09/14/07	2,019,810	2,871,829	169	Restart system			-	-	-	-	-	-	-	-	-
09/21/07	2,027,200	2,879,219	1,056	-	-	-	-	-	-	-	-	-	-	-	-
09/28/07	2,031,500	2,883,519	614	-	-	-	-	-	-	-	-	-	-	-	-
10/05/07	2,038,620	2,890,639	1,017	-	-	-	-	-	-	-	-	-	-	-	-
10/12/07	2,042,100	2,894,119	497	-	-	-	-	-	-	-	-	-	-	-	-

**TABLE 3**  
**GROUNDWATER REMEDIATION SYSTEM MONITORING PROGRAM**  
 Thrifty Oil Co. Station No 063, OAKLAND, CA

Date	Totalizer (gallons)	Total/Cum. Discharge (gallons)	Flow (gal/day)	OUTLET / EFFLUENT						INLET / INFLUENT						
				TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	TPH-g ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	
10/19/07	2,049,120	2,901,139	1,003	-	-	-	-	-	-	-	-	-	-	-	-	
10/23/07	2,051,240	2,903,259	530	Shut down system for QWS						-	-	-	-	-	-	-
10/26/07	2,053,410	2,905,429	723	Restart sytem after QWS						-	-	-	-	-	-	-
11/06/07	2,064,180	2,916,199	979	<5.6	<0.15	<0.12	<0.09	<0.26	-	Split-sample results during EBMUD inspection & sampling						
11/20/07	2,075,400	2,927,419	801	<5.6	<0.15	<0.12	<0.09	<0.26	-	2,240	84	<0.24	46	5.7	194	
11/30/07	2,082,110	2,934,129	671	-	-	-	-	-	-	-	-	-	-	-	-	
12/14/07	2,086,930	2,938,949	344	-	-	-	-	-	-	3,980	102	869	229	1400	100	
12/21/07	2,091,340	2,943,359	630	-	-	-	-	-	-	-	-	-	-	-	-	
12/28/07	2,094,210	2,946,229	410	-	-	-	-	-	-	-	-	-	-	-	-	
01/04/08	2,097,490	2,949,509	469	-	-	-	-	-	-	-	-	-	-	-	-	
01/11/08	2,106,370	2,958,389	1,269	Shut down system for QWS						-	-	-	-	-	-	-
01/15/08	-	-	-	<5.6	<0.15	<0.12	<0.09	<0.26	-	804	54	3.2 J	45	11	128	
01/25/08	2,109,820	2,961,839	246	Restart sytem after QWS						-	-	-	-	-	-	-
02/01/08	2,119,680	2,971,699	1,409	-	-	-	-	-	-	-	-	-	-	-	-	
02/08/08	2,129,200	2,981,219	1,360	-	-	-	-	-	-	97,800	183	16,900	3,510	20,400	<1.9	
02/15/08	2,138,190	2,990,209	1,284	-	-	-	-	-	-	-	-	-	-	-	-	
02/22/08	2,139,640	2,991,659	207	-	-	-	-	-	-	-	-	-	-	-	-	
02/29/08	2,143,260	2,995,279	517	-	-	-	-	-	-	-	-	-	-	-	-	
03/05/08	2,148,020	3,000,039	952	-	-	-	-	-	-	-	-	-	-	-	-	
03/14/08	2,163,950	3,015,969	1,770	-	-	-	-	-	-	6,160	36	1,070	18	1,290	27	
03/26/08	2,164,230	3,016,249	23	-	-	-	-	-	-	-	-	-	-	-	-	
03/27/08	2,165,320	3,017,339	1,090	-	-	-	-	-	-	-	-	-	-	-	-	
04/23/08	2,165,360	3,017,379	1	<6.6	<0.15	<0.12	<0.09	<0.26	-	-	-	-	-	-	-	
05/02/08	2,174,340	3,026,359	998	-	-	-	-	-	-	-	-	-	-	-	-	
05/09/08	2,196,620	3,048,639	3,183	-	-	-	-	-	-	-	-	-	-	-	-	
05/16/08	2,196,620	3,048,639	-	-	-	-	-	-	-	-	-	-	-	-	-	
05/23/08	2,196,620	3,048,639	-	-	-	-	-	-	-	-	-	-	-	-	-	
06/05/08	2,196,620	3,048,639	-	-	-	-	-	-	-	-	-	-	-	-	-	
06/10/08	2,198,960	3,050,979	468	-	-	-	-	-	-	-	-	-	-	-	-	
06/20/08	2,205,410	3,057,429	645	-	-	-	-	-	-	-	-	-	-	-	-	
06/25/08	2,213,010	3,065,029	1,520	-	-	-	-	-	-	-	-	-	-	-	-	

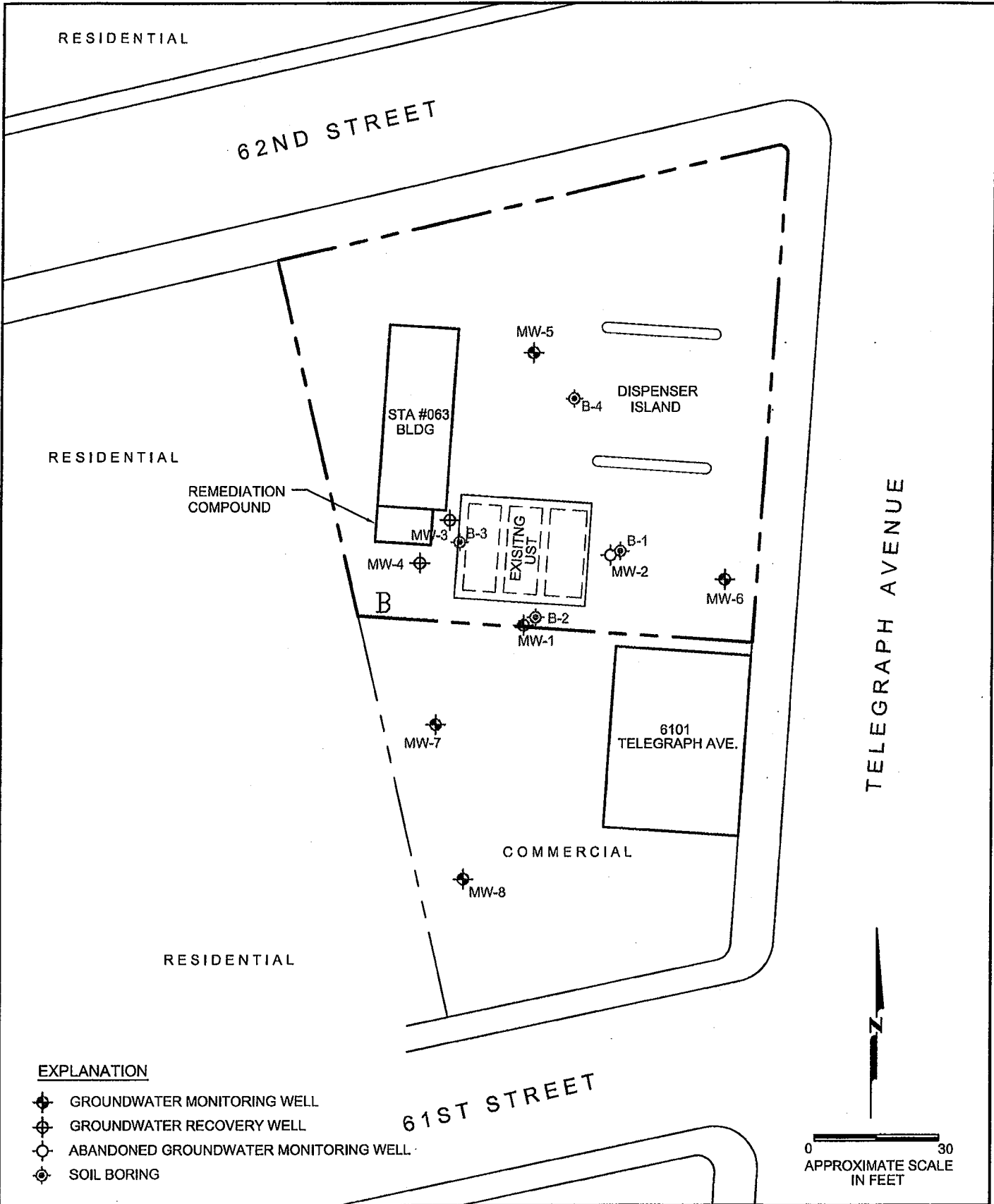
<b>WD PERMIT LIMITS:</b>	<b>NE</b>	<b>5.0</b>	<b>5.0</b>	<b>5.0</b>	<b>5.0</b>	<b>NE</b>
--------------------------	-----------	------------	------------	------------	------------	-----------

**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 8021 or 8260  
 \*MTBE by 8020 / 8260

In February 2000, the total cumulative discharge amount was corrected to reflect all system maintenance and flowmeter changeouts since the startup of the system. The total number may be different from previous versions of this table.

# ***FIGURES***



**EXPLANATION**

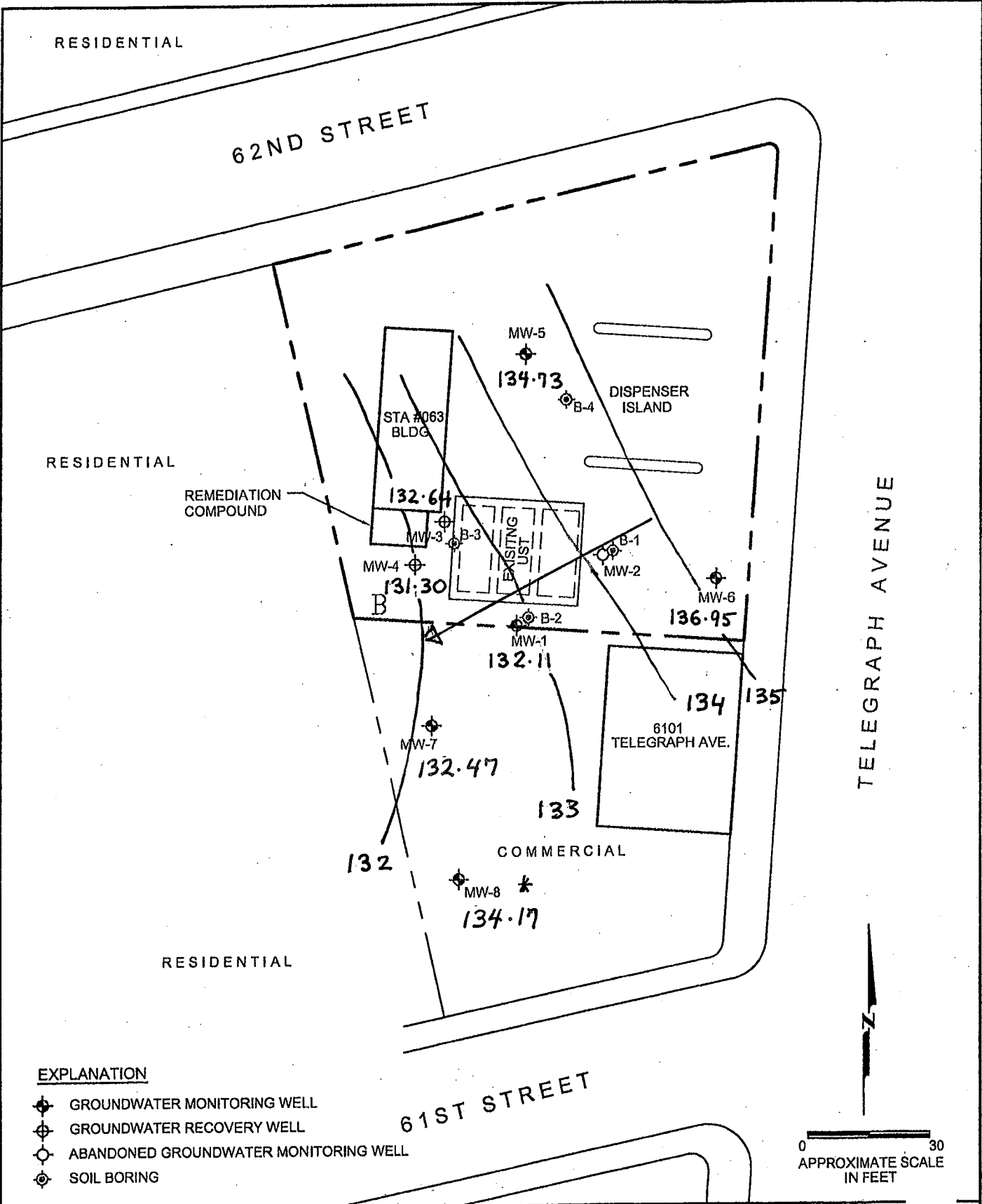
- ⊕ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊕ ABANDONED GROUNDWATER MONITORING WELL
- ⊕ SOIL BORING

**SITE PLAN**

Thrifty Station No. 063  
 6125 Telegraph Avenue  
 Oakland, California

FIGURE:	<b>1</b>
SHEET:	of
REVISION NO.:	0
DATE:	03/07

PROJECT NO. \_\_\_\_\_



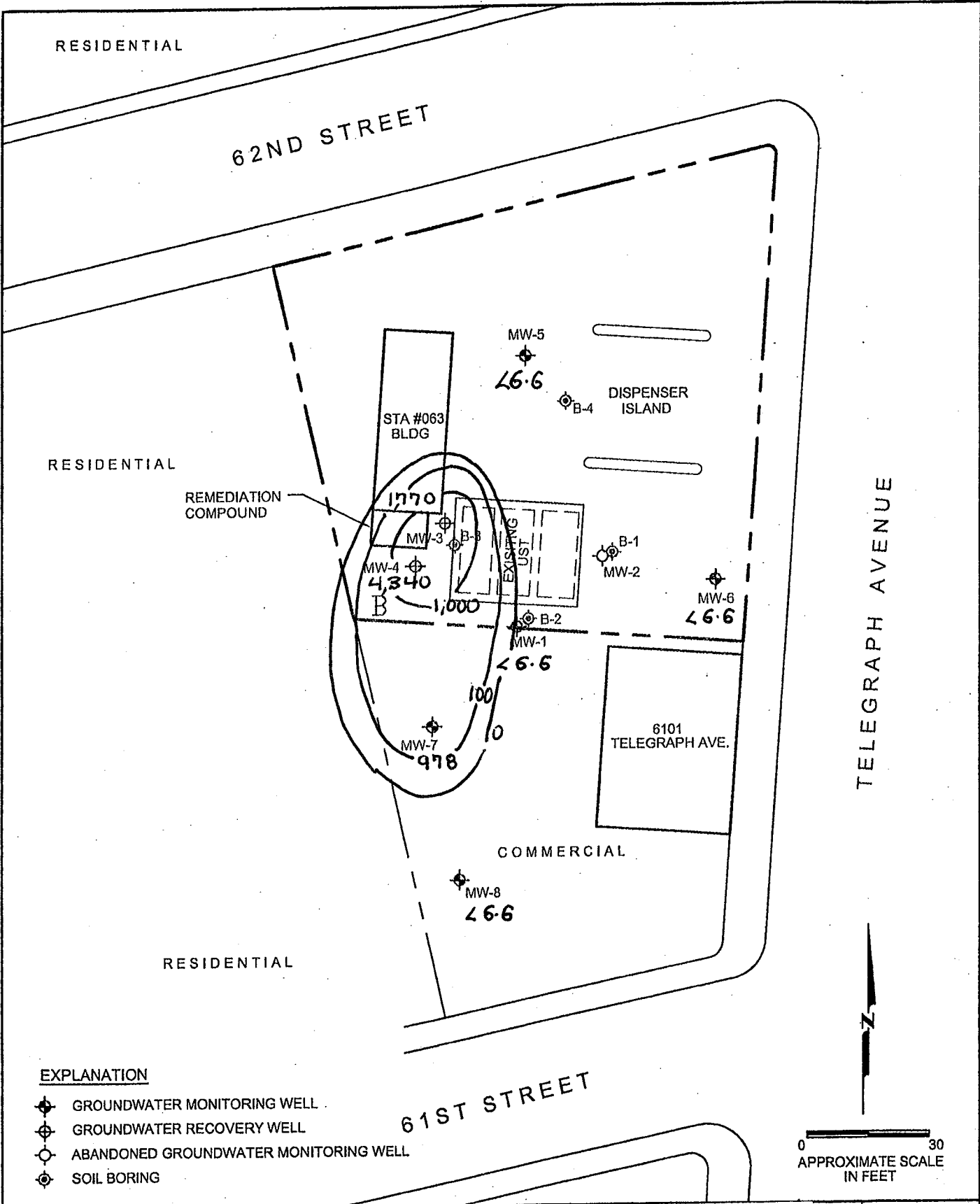
**EXPLANATION**

- ⊕ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊖ ABANDONED GROUNDWATER MONITORING WELL
- ⊙ SOIL BORING



Groundwater gauging conducted on <b>4-29-08</b> Elevations reported in feet above mean sea level * = not used to determine groundwater contour lines	<b>Groundwater Elevation Contour Map</b> Thrifty Station No. 063 6125 Telegraph Avenue Oakland, California		FIGURE: <b>2</b>
	PROJECT NO.	SHEET: <b>0</b> of <b>0</b> REVISION NO: <b>0</b> DATE: <b>03/07</b>	





**EXPLANATION**

- ⊕ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊕ ABANDONED GROUNDWATER MONITORING WELL
- ⊕ SOIL BORING

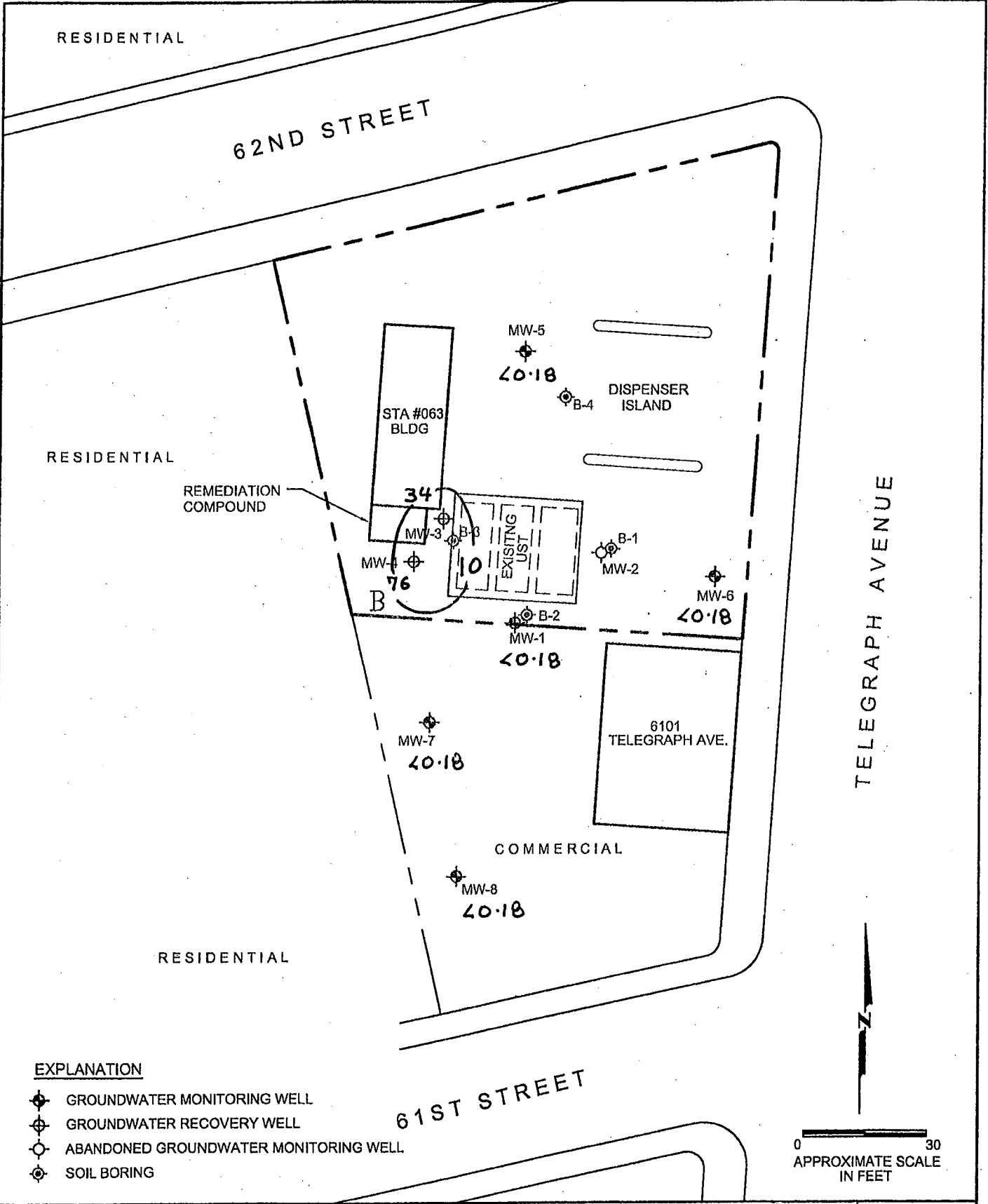
units in  $\mu\text{g/L}$   
 Samples collected on **4-29-08**

**TPHg Isoconcentration Map**

Thrifty Station No. 063  
 6125 Telegraph Avenue  
 Oakland, California

FIGURE:	3
SHEET:	of
REVISION NO:	0
DATE:	03/07

PROJECT NO.



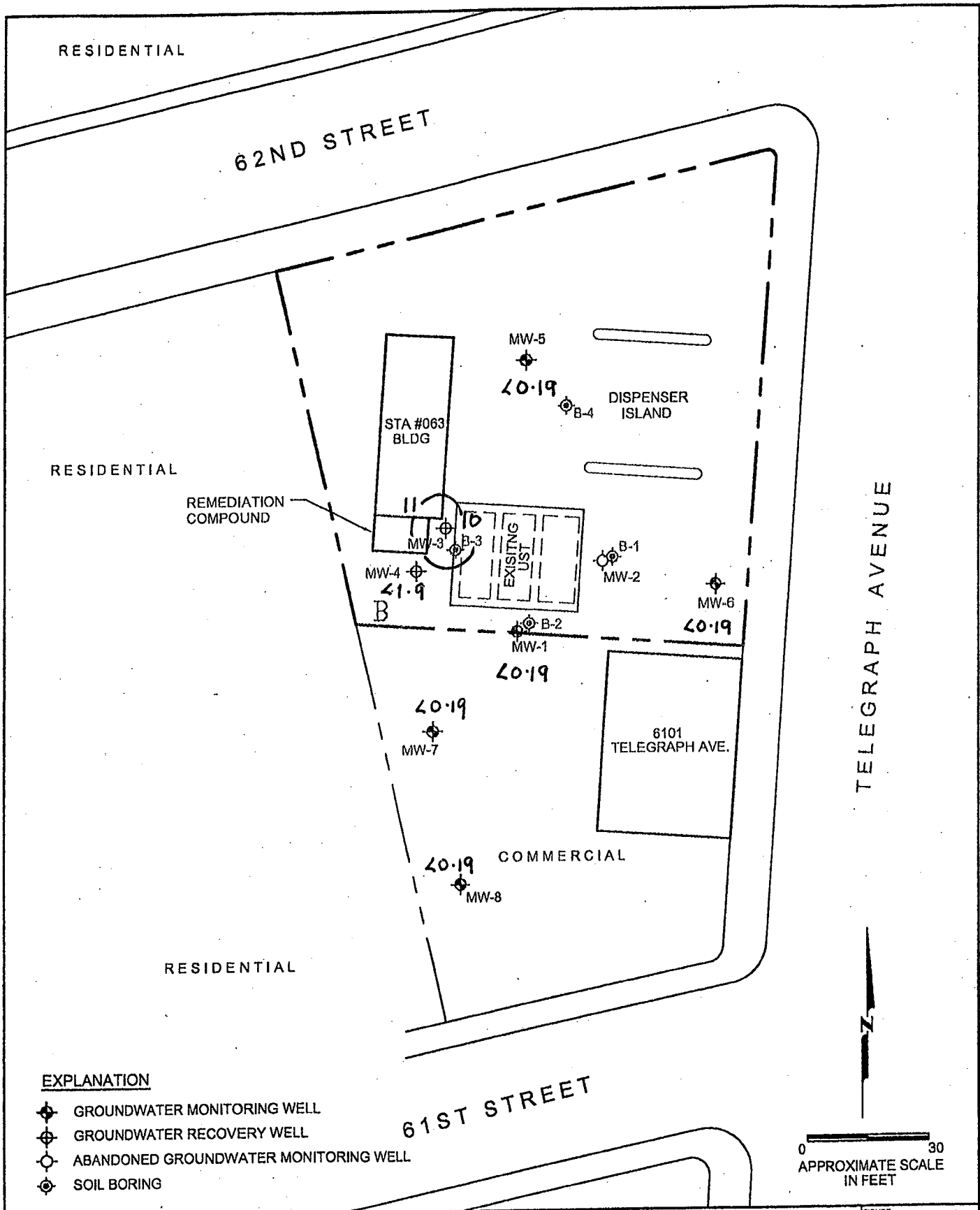
**EXPLANATION**

- ⊕ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊖ ABANDONED GROUNDWATER MONITORING WELL
- ⊙ SOIL BORING

0 30  
APPROXIMATE SCALE  
IN FEET



PROJECT NO.	units in $\mu\text{g/L}$ Samples collected on <u>4-29-08</u>	<b>Benzene Isoconcentration Map</b> Thrifty Station No. 063 6125 Telegraph Avenue Oakland, California	FIGURE: <b>4</b>
			SHEET: _____ of _____ REVISION NO: <b>0</b> DATE: <b>03/07</b>



**EXPLANATION**

- ⊕ GROUNDWATER MONITORING WELL
- ⊕ GROUNDWATER RECOVERY WELL
- ⊕ ABANDONED GROUNDWATER MONITORING WELL
- ⊕ SOIL BORING

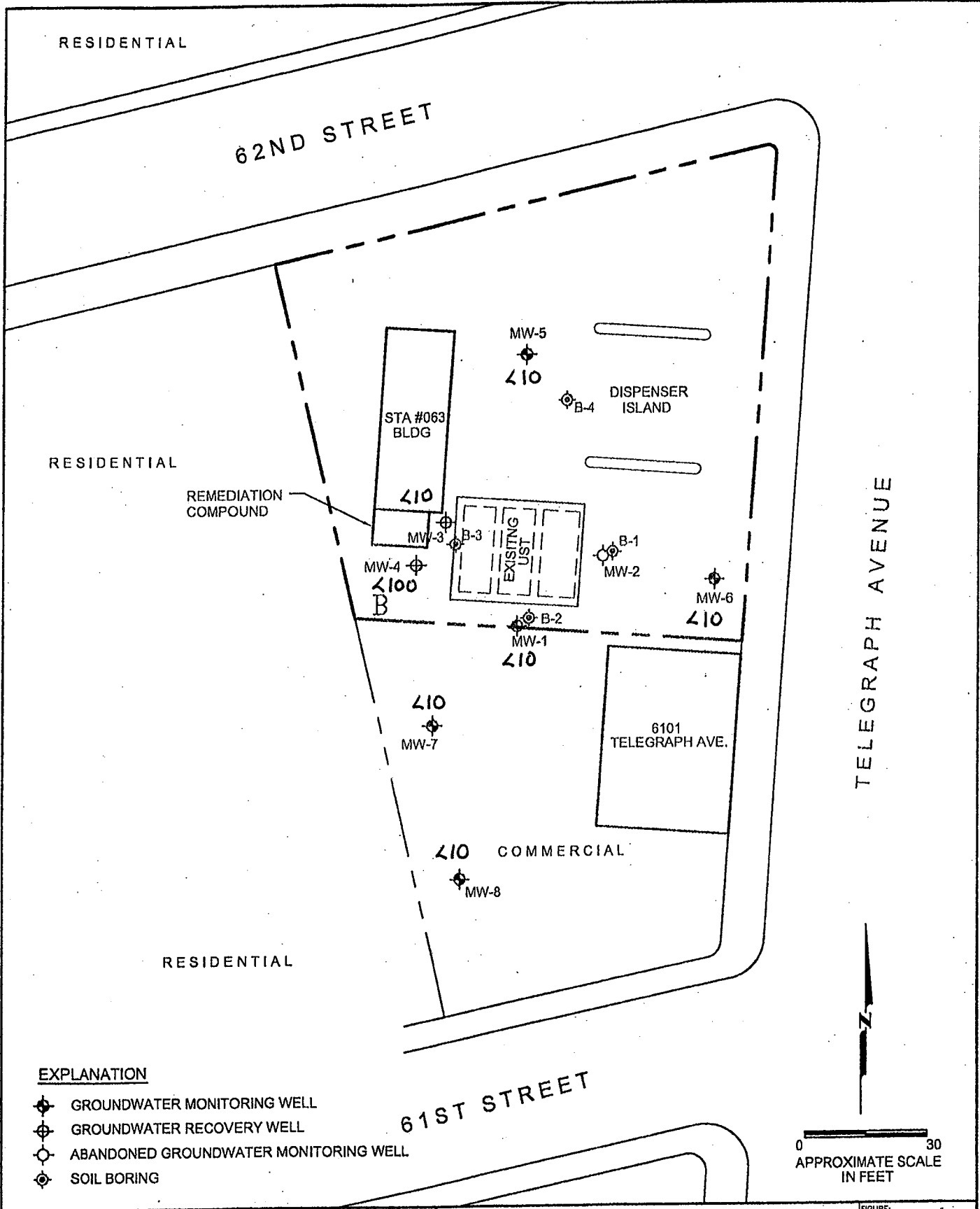
units in  $\mu\text{g/L}$   
 Samples collected on 4-29-08

**MTBE Isoconcentration Map**

Thrifty Station No. 063  
 6125 Telegraph Avenue  
 Oakland, California

FIGURE:	5
SHEET:	of
REVISION NO:	0
DATE:	03/07

PROJECT NO.



units in  $\mu\text{g/L}$   
 Samples collected on 4-29-08

PROJECT NO.

**TBA Isoconcentration Map**

Thrifty Station No. 063  
 6125 Telegraph Avenue  
 Oakland, California

FIGURE: **6**

SHEET: of

REVISION NO: **0**

DATE: **03/07**

# ***APPENDIX A***



# PROJECT STATUS REPORT

SITE: THRIFTY OIL CO. #063  
 ADDRESS: 6125 TELEGRAPH AVE.  
OAKLAND, CA. 94609

DATE: 04-29-2008

PERSONNEL: SERBAY P.

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL)		COMMENT
							EST.	ACT.	
<b>QUARTERLY</b>									
MW-1		16.32	28.94		12.62	2"	6	10	
MW-3		16.30	28.20		11.90	6"	52	60	
MW-4		17.58	29.07		11.49	2"	6	10	
MW-5		14.84	26.23		11.34	4"	22	25	
MW-6		11.43	26.80		18.37	4"	30	30	
MW-7		15.73	17.45		1.72	2"	1	3	OFFSITE
MW-8		13.14	18.24		5.15	2"	2	5	OFFSITE

FREE PRODUCT REMOVED: APPROX. \_\_\_\_\_ GALLONS | PURGE-WATER REMOVED: APPROX. 138 GALLONS

REMARKS: MONITORING WELLS AND TAKE WATER SAMPLES FROM 8 WELLS, PURGE WATER WAS PUSHED IN HOLDING TANK

EXPLANATION: DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING  
 PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

REV: 4/6/2007



# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: **THRIFTY OIL CO. # 063** Date: **04.29.08**

Address: **6125 TELEGRAPH AVE, OAKLAND, CA. 94609** Well ID#: **MW-8**

Personnel: **SERBAN P.** Weather: **SUNNY DAY**

**Purging Equipment:**  
 Bailer     Diaphragm Pump     Electric submersible     Pneumatic submersible  
 Disposable Bailer     Vacuum Truck     Extraction Pump     Other

**Sampling Equipment:**  
 Disposable Bailer  
 Other

**Monitoring Eq.:** Water level instrument: **YELLOW JACKET** pH/Temp/Cond Meter: **HANNA**

Time of measurement: **9:00** Well casing dia. (in): **2** Multipliers for purge volume estimation:

Well Dia.	1"	2"	4"	6"	12"
Casing Vol.	0.12	0.49	1.96	4.48	17.62
Borehole Vol.	0.40	0.77	1.51	2.57	7.71

Total Well Depth (ft): **18.29** Depth To Product (ft):   
 Depth To Water (ft): **13.14** Product Thickness (ft):   
 Water Column (ft): **5.15**

Note for borehole volume: add 1/2 BH vol for each subsequent passes

Purge Vol Calculation:  Casing Vol.     Borehole Vol. (SD)    **5.15 x 0.49 = 2.5**  
water column                      multiplier

## PURGING DATA

Time (hh:mm)	Time (min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
12:26	1	1	71.3	5.73	107	CLEAR	
12:27	1	1	71.4	5.83	1120	CLEAR	
12:28	1	1	71.2	5.81	1130	CLEAR	
12:29	1	1	71.3	5.80	1120	CLEAR	
12:30	1	1	71.3	5.81	1120	CLEAR	
DTW immed. after purge (ft):			Actual purged volume (gal): <b>5</b>			Avg Purge Rate (gpm): <b>1</b>	

## RECOVERY CALCULATION

Method:  Total Well Depth: 80% Recovery =  $[5.15] \times 0.20 + [13.14] = 14.17$  ft  
Water Column                      DTW Initial

Max Drawdown (SD): 80% Recovery =  $([ ] - [ ] ) \times 0.20 + [ ] =$  ft  
DTW after purge                      DTW Initial                      DTW Initial

## SAMPLING DATA

Date: **04.29.08** Time: **14:30** am / pm    pH (if required):    D.O. (if required):    O.R.P. (if required):

Depth To Water Before Sampling (ft): **16.82** Notes:

Comments:



# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: **THRIFTY OIL CO. # 063** Date: **04.29.08**

Address: **6125 TELEGRAPH AVE, OAKLAND, CA. 94609** Well ID#: **MW-7**

Personnel: **SERBAN P.** Weather: **SUNNY DAY**

**Purging Equipment:**  
 Bailor  Diaphragm Pump  Electric submersible  Pneumatic submersible  
 Disposable Bailor  Vacuum Truck  Extraction Pump  Other

**Sampling Equipment:**  
 Disposable Bailor  
 Other

**Monitoring Eq.:** Water level instrument: **YELLOW JACKET** pH/Temp/Cond Meter: **HANNA**

Time of measurement: **8:50** Well casing dia. (in) **2** Multipliers for purge volume estimation:

Well Dia.	1"	2"	4"	6"	12"
3 Casing Vol.	0.12	0.49	1.96	4.40	17.62
Borehole Vol.	0.40	0.77	1.51	2.57	7.71

Total Well Depth (ft): **17.45** Depth To Product (ft):   
 Depth To Water (ft): **15.73** Product Thickness (ft):   
 Water Column (ft): **1.72**

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Purge Vol Calculation:  Casing Vol.  Borehole Vol. (SD) **1.72 x 0.49 = 1**

Estimated Purge Volume (gal): **1**

water column multiplier

## PURGING DATA

Time		Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
(hh:mm)	(min)						
12:00							
12:12	1	1	71.4	5.73	1240	CLEAR	
12:14	1	1	71.3	5.71	1230	CLEAR	
12:16	1	1	71.4	5.80	1250	CLEAR	
DTW immed. after purge (ft):		Actual purged volume (gal): <b>3</b>		Avg Purge Rate (gpm): <b>0.5</b>			

## RECOVERY CALCULATION

Method:  Total Well Depth: 80% Recovery =  $[1.72] \times 0.20 + [15.73] = 16.07$  ft

Max Drawdown (SD): 80% Recovery =  $([ ] - [ ]) \times 0.20 + [ ] =$  ft

Water Column DTW Initial DTW after purge DTW Initial

## SAMPLING DATA

Date: **04.29.08** Time: **14:20** am / pm

Depth To Water Before Sampling (ft): **17.03** Notes:

pH (if required): D.O. (if required): O.R.P. (if required):

Comments:





# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: **THRIFTY OIL CO. # 063** Date: **04.29.08**

Address: **6125 TELEGRAPH AVE, OAKLAND, CA. 94609** Well ID#: **MW-6**

Personnel: **SERBAN P.** Weather: **SUNNY DAY**

**Purging Equipment:**  
 Bailer  Diaphragm Pump  Electric submersible  Pneumatic submersible  
 Disposable Bailer  Vacuum Truck  Extraction Pump  Other

**Monitoring Eq.:** Water level instrument: **YELLOW JACKET** pH/Temp/Cond Meter: **HANNA**

**Sampling Equipment:**  
 Disposable Bailer  
 Other

Time of measurement: **8:40** Well casing dia. (in): **4** Multipliers for purge volume estimation:  
 Total Well Depth (ft): **26.80** Depth To Product (ft):  Note for borehole volume, add 1/2 BH vol for each subsequent passes  
 Depth To Water (ft): **11.43** Product Thickness (ft):   
 Water Column (ft): **15.37**

Well Dia	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.51	2.57	7.71

Estimated Purge Volume (gal): **15.37 x 1.96 = 30**  
water column multiplier

Purge Vol Calculation:  Casing Vol.  Borehole Vol. (SD)

## PURGING DATA

Time		Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
(hh:mm)	(min)						
11:30		Start Purging					
11:36	6	6	71.4	6.11	1340	CLEAR	
11:42	6	6	71.3	6.06	1360	CLEAR	
11:48	6	6	71.6	6.06	1420	CLEAR	
11:54	6	6	71.2	6.01	1410	CLEAR	
12:00	6	6	71.2	6.09	1410	CLEAR	
DTW immed. after purge (ft): <b>11.30</b>		Actual purged volume (gal): <b>30</b>		Avg Purge Rate (gpm): <b>1</b>			

## RECOVERY CALCULATION

Method:  Total Well Depth: 80% Recovery =  $[(15.37) \times 0.20 + (11.43)] = 14.20$  ft  
Water Column DTW Initial

Max Drawdown (SD): 80% Recovery =  $([ ] - [ ] ) \times 0.20 + [ ] =$  ft  
DTW after purge DTW Initial DTW Initial

## SAMPLING DATA

Date: **04.29.08** Time: **14:05** am / pm  
 pH (if required):  D.O. (if required):  O.R.P. (if required):

Depth To Water Before Sampling (ft): **13.62** Notes:

Comments:



# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: **THRIFTY OIL CO. # 063** Date: **04.29.08**

Address: **6125 TELEGRAPH AVE, OAKLAND, CA. 94609** Well ID#: **MW-5**

Personnel: **SERBAN P.** Weather: **SUNNY DAY**

**Purging Equipment:**  
 Bailer  Diaphragm Pump  Electric submersible  Pneumatic submersible  
 Disposable Bailer  Vacuum Truck  Extraction Pump  Other

**Sampling Equipment:**  
 Disposable Bailer  
 Other

**Monitoring Eq.:** Water level instrument: **YELLOW JACKET** pH/Temp/Cond Meter: **HANNA**

Time of measurement: **8:30** Well casing dia. (in): **4** Multipliers for purge volume estimation:

Well Dia.	1"	2"	4"	6"	12"
Casing Vol.	0.12	0.49	1.86	4.40	17.62
Borehole Vol.	0.40	0.77	1.51	2.57	7.71

Total Well Depth (ft): **26.23** Depth To Product (ft):   
 Depth To Water (ft): **14.89** Product Thickness (ft):   
 Water Column (ft): **11.34**

Note for borehole volume: add 1/2 BH vol for each subsequent passes

**Estimated Purge Volume (gal):**  
 $11.34 \times 1.96 = 22$   
water column multiplier

Purge Vol Calculation:  Casing Vol.  Borehole Vol. (SD)

## PURGING DATA

Time		Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
(hh:mm)	(min)						
10:50	5	5	71.4	5.87	987	CLEAR	
10:55	6	5	71.2	5.83	983	CLEAR	
11:00	5	5	71.3	5.81	1110	CLEAR	
11:05	5	5	71.1	5.80	1120	CLEAR	
11:10	5	5	71.2	5.83	1110	CLEAR	
DTW immed. after purge (ft): <b>14.72</b>		Actual purged volume (gal): <b>25</b>		Avg Purge Rate (gpm): <b>1</b>			

## RECOVERY CALCULATION

Method:  Total Well Depth: 80% Recovery =  $[11.34] \times 0.20 + [14.89] = 17.15$  ft  
Water Column DTW Initial

Max Drawdown (SD): 80% Recovery =  $([ ] - [ ]) \times 0.20 + [ ] = [ ]$  ft  
DTW after purge DTW Initial DTW Initial

## SAMPLING DATA

Date: **04.29.08** Time: **13:30** am / pm

pH (if required):  D.O. (if required):  O.R.P. (if required):

Depth To Water Before Sampling (ft): **15.06** Notes:

Comments:



# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: **THRIFTY OIL CO. # 063** Date: **04.29.08**

Address: **6125 TELEGRAPH AVE, OAKLAND, CA. 94609** Well ID#: **MW-4**

Personnel: **SERBAN P.** Weather: **SUNNY DAY**

**Purging Equipment:**  
 Bailor     Diaphragm Pump     Electric submersible     Pneumatic submersible  
 Disposable Bailor     Vacuum Truck     Extraction Pump     Other

**Sampling Equipment:**  
 Disposable Bailor  
 Other

**Monitoring Eq.:** Water level instrument: **YELLOW JACKET** pH/Temp/Cond Meter: **HANNA**

Time of measurement: **8:20** Well casing dia. (in): **2** Multipliers for purge volume estimation:

Well Dia.	1"	2"	4"	6"	12"
Casing Vol.	0.12	0.49	1.96	4.40	17.62
Borehole Vol.	0.40	0.77	1.51	2.57	7.71

Total Well Depth (ft): **29.07** Depth To Product (ft): \_\_\_\_\_  
 Depth To Water (ft): **17.58** Product Thickness (ft): \_\_\_\_\_  
 Water Column (ft): **11.49**

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Purge Vol Calculation:  Casing Vol.     Borehole Vol. (SD)    **11.49 x 0.49 = 6**  
water column                      multiplier

## PURGING DATA

Time (hh:mm)	(min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations	
								10:30
10:32	2	2	70.9	6.06	1430	CLEAR		
10:34	2	2	71.3	6.01	1420	CLEAR		
10:36	2	2	71.6	6.03	1420	CLEAR		
10:38	2	2	71.9	6.04	1430	CLEAR		
10:40	2	2	71.3	6.01	1420	CLEAR		
DTW immed. after purge (ft):		<b>17.50</b>	Actual purged volume (gal):		<b>10</b>	Avg Purge Rate (gpm):		<b>1</b>

## RECOVERY CALCULATION

Method:  Total Well Depth: 80% Recovery =  $[(11.49) \times 0.20 + (17.58)] = 14.07$  ft  
Water Column                      DTW Initial

Max Drawdown (SD): 80% Recovery =  $([ ] - [ ]) \times 0.20 + [ ] =$  ft  
DTW after purge                      DTW Initial                      DTW Initial

## SAMPLING DATA

Date: **04.29.08** Time: **13:00** am / pm

Depth To Water Before Sampling (ft): **19.10** Notes: \_\_\_\_\_

pH (if required): \_\_\_\_\_ D.O. (if required): \_\_\_\_\_ O.R.P. (if required): \_\_\_\_\_

Comments: \_\_\_\_\_



# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: **THRIFTY OIL CO. # 063** Date: **04.29.08**

Address: **6125 TELEGRAPH AVE, OAKLAND, CA. 94609** Well ID#: **MW-3**

Personnel: **SERBAN P.** Weather: **SUNNY DAY**

**Purging Equipment:**  
 Bailor     Diaphragm Pump     Electric submersible     Pneumatic submersible  
 Disposable Bailor     Vacuum Truck     Extraction Pump     Other

**Sampling Equipment:**  
 Disposable Bailor  
 Other

**Monitoring Eq.:** Water level instrument: **YELLOW JACKET** pH/Temp/Cond Meter: **HANNA**

Time of measurement: **8:10** Well casing dia. (in) **6** Multipliers for purge volume estimation:

Well Dia.	1"	2"	4"	6"	12"
3 Casing Vol.	0.12	0.49	1.96	4.48	17.62
Borehole Vol.	0.40	0.77	1.51	2.57	7.71

Total Well Depth (ft): **28.20** Depth To Product (ft):   
 Depth To Water (ft): **16.30** Product Thickness (ft):   
 Water Column (ft): **11.90**

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Purge Vol Calculation:  Casing Vol.     Borehole Vol. (SD)

**Estimated Purge Volume (gal) :**  
 $11.90 \times 4.40 = 52$   
water column multiplier

## PURGING DATA

Time		Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
(hh:mm)	(min)						
9:20		START PURGING					
9:32	12	12	71.3	5.83	1320	CLEAR	
9:44	12	12	71.6	5.81	1340	CLEAR	
9:56	12	12	71.2	5.72	1370	CLEAR	
10:08	12	12	71.0	5.70	1360	CLEAR	
10:20	12	12	71.1	5.70	1360	CLEAR	
DTW immed. after purge (ft):		<b>16.04</b>	Actual purged volume (gal):		<b>60</b>	Avg Purge Rate (gpm): <b>1</b>	

## RECOVERY CALCULATION

Method:  Total Well Depth:  $80\% \text{ Recovery} = [ \frac{11.90}{\text{Water Column}} ] \times 0.20 + [ \frac{16.30}{\text{DTW Initial}} ] = 12.68 \text{ ft}$

Max Drawdown (SD):  $80\% \text{ Recovery} = ( [ \text{  } ] - [ \text{  } ] ) \times 0.20 + [ \text{  } ] = \text{  } \text{ ft}$

## SAMPLING DATA

Date: **04.29.08** Time: **12:50** am / pm

pH (if required):  D.O. (if required):  O.R.P. (if required):

Depth To Water Before Sampling (ft): **17.40** Notes:

Comments:



# FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: **THRIFTY OIL CO. # 063** Date: **04-29-08**

Address: **6125 TELEGRAPH AVE, OAKLAND, CA. 94609** Well ID#: **MW-1**

Personnel: **SERBAN P.** Weather: **FUNNY DAY**

**Purging Equipment:**  
 Bailer  Diaphragm Pump  Electric submersible  Pneumatic submersible  
 Disposable Bailer  Vacuum Truck  Extraction Pump  Other

**Sampling Equipment:**  
 Disposable Bailer  
 Other

**Monitoring Eq.:** Water level instrument: **YELLOW JACKET** pH/Temp/Cond Meter: **HANNA**

Time of measurement: **8:00** Well casing dia. (in): **2** Multipliers for purge volume estimation:

Well Dia.	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.51	2.57	7.71

Total Well Depth (ft): **28.94** Depth To Product (ft):  *Note for borehole volume, add 1/2 BH vol for each subsequent passes*

Depth To Water (ft): **16.32** Product Thickness (ft):

Water Column (ft): **12.62**

Purge Vol Calculation:  Casing Vol.  Borehole Vol. (SD) **12.62 x 0.49 = 6**  
water column multiplier

## PURGING DATA

Time		Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
(hh:mm)	(min)						
9:10	0	Start Purging					
9:12	2	2	71.5	6.01	1210	CLEAR	
9:14	2	2	71.4	5.93	1230	CLEAR	
9:16	2	2	71.6	5.88	1240	CLEAR	
9:18	2	2	71.2	5.87	1230	CLEAR	
9:20	2	2	71.4	5.90	1230	CLEAR	
DTW immed. after purge (ft):		<b>16.25</b>	Actual purged volume (gal):		<b>10</b>	Avg Purge Rate (gpm): <b>1</b>	

## RECOVERY CALCULATION

Method:  Total Well Depth: 80% Recovery =  $[\text{Water Column}] \times 0.20 + [\text{DTW Initial}] = \underline{18.84}$  ft

Max Drawdown (SD): 80% Recovery =  $([\text{DTW after purge}] - [\text{DTW Initial}]) \times 0.20 + [\text{DTW Initial}] = \underline{\quad}$  ft

## SAMPLING DATA

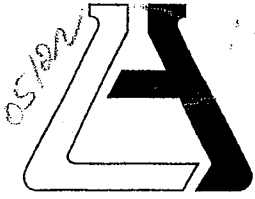
Date: **04.29.08** Time: **12:40** am / pm

pH (if required):  D.O. (if required):  O.R.P. (if required):

Depth To Water Before Sampling (ft): **17.32** Notes:

Comments:

## ***APPENDIX B***



**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

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

LAB REQUEST 211718 ✓

REPORTED 05/08/2008

RECEIVED 05/01/2008

PROJECT Station #063 ✓  
6125 Telegraph Ave., Oakland

SUBMITTER Client

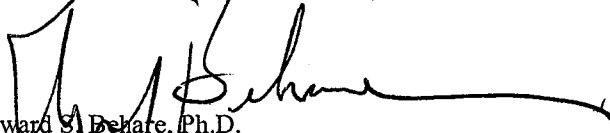
COMMENTS

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

<u>Order No.</u>	<u>Client Sample Identification</u>
894672	TOC# 063 MW-8
894673	TOC# 063 MW-7
894674	TOC# 063 MW-6
894675	TOC# 063 MW-5
894676	TOC# 063 MW-4
894677	TOC# 063 MW-3
894678	TOC# 063 MW-1
894679	TOC# 063 Trip Blank
894680	Laboratory Method Blank

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

ASSOCIATED LABORATORIES by,

  
Edward S. Behare, Ph.D.  
Vice President

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

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TESTING & CONSULTING  
Chemical  
Microbiological  
Environmental

Order #: 894672  
Matrix: WATER

Client Sample ID: TOC# 063 MW-8  
Date Sampled: 04/29/2008 Time Sampled: 14:30

Analyte Result DF PQL MDL Units Date/Analyst

8260B BTEX/MTBE Only

Benzene	ND	1	1	0.18 ug/L	05/06/08 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	0.20 ug/L	05/06/08 RP
Ethyl benzene	ND	1	5	0.21 ug/L	05/06/08 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	0.23 ug/L	05/06/08 RP
Methyl-tert-butylether (MTBE)	ND	1	1	0.19 ug/L	05/06/08 RP
Tert-amylmethylether (TAME)	ND	1	1.0	0.19 ug/L	05/06/08 RP
Tertiary butyl alcohol (TBA)	ND	1	10	10 ug/L	05/06/08 RP
Toluene	ND	1	5	0.24 ug/L	05/06/08 RP
Xylenes, total	ND	1	5	0.45 ug/L	05/06/08 RP

Surrogates

				Units	Control Limits
Surr1 - Dibromofluoromethane	89			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	103			%	70 - 130
Surr3 - Toluene-d8	94			%	70 - 130
Surr4 - p-Bromofluorobenzene	101			%	70 - 130

8015B - Gasoline

Gasoline	ND	1	50	6.6 ug/L	05/03/08 LT
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Surrogates

				Units	Control Limits
a,a,a-Trifluorotoluene	85			%	55 - 200

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





Order #: 894673

Client Sample ID: TOC# 063 MW-7

Matrix: WATER

Date Sampled: 04/29/2008 Time Sampled: 14:20

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

Benzene	ND	1	1	0.18	ug/L	05/06/08 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	0.20	ug/L	05/06/08 RP
Ethyl benzene	25	1	5	0.21	ug/L	05/06/08 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	0.23	ug/L	05/06/08 RP
Methyl-tert-butylether (MTBE)	ND	1	1	0.19	ug/L	05/06/08 RP
Tert-amylmethylether (TAME)	ND	1	1.0	0.19	ug/L	05/06/08 RP
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	05/06/08 RP
Toluene	4.2	J 1	5	0.24	ug/L	05/06/08 RP
Xylenes, total	165	1	5	0.45	ug/L	05/06/08 RP

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	95			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	104			%	70 - 130
Surr3 - Toluene-d8	95			%	70 - 130
Surr4 - p-Bromofluorobenzene	107			%	70 - 130

**8015B - Gasoline**

Gasoline	978	1	50	6.6	ug/L	05/03/08 LT
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**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	91			%	55 - 200

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



Order #: 894674

Client Sample ID: TOC# 063 MW-6

Matrix: WATER

Date Sampled: 04/29/2008 Time Sampled: 14:05

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	ND	1	1	0.18	ug/L	05/06/08 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	0.20	ug/L	05/06/08 RP
Ethyl benzene	ND	1	5	0.21	ug/L	05/06/08 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	0.23	ug/L	05/06/08 RP
Methyl-tert-butylether (MTBE)	ND	1	1	0.19	ug/L	05/06/08 RP
Tert-amylmethylether (TAME)	ND	1	1.0	0.19	ug/L	05/06/08 RP
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	05/06/08 RP
Toluene	ND	1	5	0.24	ug/L	05/06/08 RP
Xylenes, total	ND	1	5	0.45	ug/L	05/06/08 RP
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
Surr1 - Dibromofluoromethane	93			%	70 - 130	
Surr2 - 1,2-Dichloroethane-d4	97			%	70 - 130	
Surr3 - Toluene-d8	97			%	70 - 130	
Surr4 - p-Bromofluorobenzene	104			%	70 - 130	
<b>8015B - Gasoline</b>						
Gasoline	ND	1	50	6.6	ug/L	05/03/08 LT
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
a,a,a-Trifluorotoluene	88			%	55 - 200	

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



Order #: 894675

Client Sample ID: TOC# 063 MW-5

Matrix: WATER

Date Sampled: 04/29/2008 Time Sampled: 13:30

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

Benzene	ND	1	1	0.18	ug/L	05/06/08 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	0.20	ug/L	05/06/08 RP
Ethyl benzene	ND	1	5	0.21	ug/L	05/06/08 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	0.23	ug/L	05/06/08 RP
Methyl-tert-butylether (MTBE)	ND	1	1	0.19	ug/L	05/06/08 RP
Tert-amylmethylether (TAME)	ND	1	1.0	0.19	ug/L	05/06/08 RP
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	05/06/08 RP
Toluene	ND	1	5	0.24	ug/L	05/06/08 RP
Xylenes, total	ND	1	5	0.45	ug/L	05/06/08 RP

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	92			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	93			%	70 - 130
Surr3 - Toluene-d8	97			%	70 - 130
Surr4 - p-Bromofluorobenzene	101			%	70 - 130

**8015B - Gasoline**

Gasoline	ND	1	50	6.6	ug/L	05/03/08 LT
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**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	87			%	55 - 200

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



Order #: 894676

Client Sample ID: TOC# 063 MW-4

Matrix: WATER

Date Sampled: 04/29/2008 Time Sampled: 13:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	76	10	10.0	0.18	ug/L	05/06/08 RP
Di-isopropyl ether (DIPE)	ND	10	10.0	0.20	ug/L	05/06/08 RP
Ethyl benzene	138	10	50.0	0.21	ug/L	05/06/08 RP
Ethyl-tertbutylether (ETBE)	ND	10	10.0	0.23	ug/L	05/06/08 RP
Methyl-tert-butylether (MTBE)	ND	10	10.0	0.19	ug/L	05/06/08 RP
Tert-amylmethylether (TAME)	ND	10	10.0	0.19	ug/L	05/06/08 RP
Tertiary butyl alcohol (TBA)	ND	10	100.0	10	ug/L	05/06/08 RP
Toluene	498	10	50.0	0.24	ug/L	05/06/08 RP
Xylenes, total	817	10	50.0	0.45	ug/L	05/06/08 RP
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
Surr1 - Dibromofluoromethane	89			%	70 - 130	
Surr2 - 1,2-Dichloroethane-d4	100			%	70 - 130	
Surr3 - Toluene-d8	98			%	70 - 130	
Surr4 - p-Bromofluorobenzene	105			%	70 - 130	
<b>8015B - Gasoline</b>						
Gasoline	4340	1	50	6.6	ug/L	05/03/08 LT
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
a,a,a-Trifluorotoluene	107			%	55 - 200	

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



Order #: 894677

Client Sample ID: TOC# 063 MW-3

Matrix: WATER

Date Sampled: 04/29/2008 Time Sampled: 12:50

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

Benzene	34	1	1	0.18	ug/L	05/06/08 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	0.20	ug/L	05/06/08 RP
Ethyl benzene	60	1	5	0.21	ug/L	05/06/08 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	0.23	ug/L	05/06/08 RP
Methyl-tert-butylether (MTBE)	11	1	1	0.19	ug/L	05/06/08 RP
Tert-amylmethylether (TAME)	ND	1	1.0	0.19	ug/L	05/06/08 RP
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	05/06/08 RP
Toluene	273	1	5	0.24	ug/L	05/06/08 RP
Xylenes, total	361	1	5	0.45	ug/L	05/06/08 RP

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	91			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	99			%	70 - 130
Surr3 - Toluene-d8	99			%	70 - 130
Surr4 - p-Bromofluorobenzene	106			%	70 - 130

**8015B - Gasoline**

Gasoline	1770	1	50	6.6	ug/L	05/03/08 LT
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**Surrogates**

				Units	Control Limits
a,a,a-Trifluorotoluene	106			%	55 - 200

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



Order #: 894678

Client Sample ID: TOC# 063 MW-1

Matrix: WATER

Date Sampled: 04/29/2008 Time Sampled: 12:40

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

Benzene	ND	1	1	0.18	ug/L	05/06/08 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	0.20	ug/L	05/06/08 RP
Ethyl benzene	ND	1	5	0.21	ug/L	05/06/08 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	0.23	ug/L	05/06/08 RP
Methyl-tert-butylether (MTBE)	ND	1	1	0.19	ug/L	05/06/08 RP
Tert-amylmethylether (TAME)	ND	1	1.0	0.19	ug/L	05/06/08 RP
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	05/06/08 RP
Toluene	1.4	J 1	5	0.24	ug/L	05/06/08 RP
Xylenes, total	1.4	J 1	5	0.45	ug/L	05/06/08 RP

**Surrogates**

		Units	Control Limits
Surr1 - Dibromofluoromethane	94	%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	96	%	70 - 130
Surr3 - Toluene-d8	97	%	70 - 130
Surr4 - p-Bromofluorobenzene	104	%	70 - 130

**8015B - Gasoline**

Gasoline	ND	1	50	6.6	ug/L	05/03/08 LT
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**Surrogates**

		Units	Control Limits
a,a,a-Trifluorotoluene	88	%	55 - 200

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



Order #: 894679

Client Sample ID: TOC# 063 Trip Blank

Matrix: WATER

Date Sampled: 04/29/2008 Time Sampled: :

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

Benzene	ND	1	1	0.18	ug/L	05/07/08 RP
Ethyl benzene	ND	1	5	0.21	ug/L	05/07/08 RP
Toluene	ND	1	5	0.24	ug/L	05/07/08 RP
Xylenes, total	ND	1	5	0.45	ug/L	05/07/08 RP

**Surrogates**

					Units	Control Limits
Surr1 - Dibromofluoromethane	96				%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	99				%	70 - 130
Surr3 - Toluene-d8	95				%	70 - 130
Surr4 - p-Bromofluorobenzene	100				%	70 - 130

**8015B - Gasoline**

Gasoline	ND	1	50	6.6	ug/L	05/03/08 LT
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**Surrogates**

					Units	Control Limits
a,a,a-Trifluorotoluene	88				%	55 - 200

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



Order #: 894680

Client Sample ID: Laboratory Method Blank

Matrix: WATER

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

Benzene	ND	1	1	0.18	ug/L	05/06/08 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	0.20	ug/L	05/06/08 RP
Ethyl benzene	ND	1	5	0.21	ug/L	05/06/08 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	0.23	ug/L	05/06/08 RP
Methyl-tert-butylether (MTBE)	ND	1	1	0.19	ug/L	05/06/08 RP
Tert-amylmethylether (TAME)	ND	1	1.0	0.19	ug/L	05/06/08 RP
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	05/06/08 RP
Toluene	ND	1	5	0.24	ug/L	05/06/08 RP
Xylenes, total	ND	1	5	0.45	ug/L	05/06/08 RP

**Surrogates**

				Units	Control Limits
Surr1 - Dibromofluoromethane	89			%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	101			%	70 - 130
Surr3 - Toluene-d8	94			%	70 - 130
Surr4 - p-Bromofluorobenzene	102			%	70 - 130

**8015B - Gasoline**

Gasoline	ND	1	50	6.6	ug/L	05/02/08 LT
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**Surrogates**

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

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





# ASSOCIATED LABORATORIES

## QA / QC EPA Methods 8260 - GCMS # 4

Sample ID: *MS/MSD Water Sample* 211718-672

Date Prepared: May 6, 2008

Date Analyzed: May 7, 2008

Sample Matrix: Water

Units: µg/L

Lab ID#'s in Batch: 211718, 211487, 211674

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	59.10	67.60	118	135	13	22	59 - 172
MTBE	0.00	50.0	57.20	60.20	114	120	5	24	62 - 137
Benzene	0.00	50.0	53.50	58.20	107	116	8	24	62 - 137
Trichloroethene	0.00	50.0	50.80	57.80	102	116	13	21	66 - 142
Toluene	0.00	50.0	54.80	62.10	110	124	12	21	59 - 139
Chlorobenzene	0.00	50.0	50.90	57.30	102	115	12	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	44.40	89	59 - 172
MTBE	50.0	55.70	111	62 - 137
Benzene	50.0	53.10	106	62 - 137
Trichloroethene	50.0	53.00	106	66 - 142
Toluene	50.0	53.70	107	59 - 139
Chlorobenzene	50.0	50.90	102	60 - 133

\*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

### Surrogate Recovery

Compound	MB 1 % Rec	MB 2 % Rec	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Dibromofluoromethane	89	91	100	97	96	70 - 135
1,2-Dichloroethane-d4	101	100	108	104	100	70 - 135
Toluene-d8	94	97	99	100	100	70 - 135
p-Bromofluorobenzene	102	107	97	101	103	70 - 135

# ASSOCIATED LABORATORIES

## QA / QC EPA Methods 8260 - GCMS # 3

Sample ID: *MS/MSD Water Sample*    211754-768

Date Prepared: May 6, 2008

Date Analyzed: May 6, 2008

Sample Matrix: Water

Units: µg/L

Lab ID#'s in Batch: 211754, 211718, 211613, 211717

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	50.90	50.50	102	101	1	22	59 - 172
MTBE	0.00	50.0	51.70	53.10	103	106	3	24	62 - 137
Benzene	0.00	50.0	49.30	50.00	99	100	1	24	62 - 137
Trichloroethene	0.00	50.0	53.50	52.00	107	104	3	21	66 - 142
Toluene	0.00	50.0	50.50	50.40	101	101	0	21	59 - 139
Chlorobenzene	0.00	50.0	50.10	50.00	100	100	0	21	60 - 133

Sample ID: *LCS/LCSD*

Compound	True Value	LCS Res	LCSD Res	LCS % Rec	LCSD % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	50.0	51.80	51.70	104	103	0	22	59 - 172
MTBE	50.0	49.30	52.30	99	105	6	24	62 - 137
Benzene	50.0	51.30	51.00	103	102	1	24	62 - 137
Trichloroethene	50.0	51.20	49.20	102	98	4	21	66 - 142
Toluene	50.0	51.70	49.70	103	99	4	21	59 - 139
Chlorobenzene	50.0	50.20	50.70	100	101	1	21	60 - 133

\*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

### Surrogate Recovery

Compound	MB 1 % Rec	MB 2 % Rec	MS % Rec	MSD % Rec	LCS % Rec	LCSD % Rec	Limits % Rec
Dibromofluoromethane	93	91	97	100	95	98	70 - 135
1,2-Dichloroethane-d4	97	94	98	96	95	96	70 - 135
Toluene-d8	96	97	98	94	97	96	70 - 135
p-Bromofluorobenzene	100	103	100	101	102	98	70 - 135

**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: G1-LCS&LCSD

Matrix: WATER

Prep. Date: May 2, 2008

Analysis Date 05/02/08-05/03/08

Lab ID#'s in Batch: 211718, 211488, 211486, 211593,

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

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	492	496	98	99	1

*ND = Not Detected*

*LCS Result = Lab Control Sample Result*

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

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

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

**SURROGATE RECOVERY**

Sample No.	AAA-TFT
QC Limit	55-200
Method Blank	89
LCS	192
LCSD	196

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



**ASSOCIATED LABORATORIES**

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

FAX 714-538-1209

**SAMPLE ACCEPTANCE CHECKLIST**

**Section 1**  
 Client: TOC Project: \_\_\_\_\_  
 Date Received: 5-1-08  
 Sample(s) received in cooler:  Yes No (Skip Section 2)

**Section 2**  
 Was the cooler packed with:  Ice  Ice Packs  Bubble Wrap  Styrofoam  
 Paper  None  Other \_\_\_\_\_  
 Cooler or box temperature: 4.0 °C  
 (Acceptance range is 2 to 6 Deg. C.)

Section 3	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>		
Were custody seals present?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
If Yes – were they intact?		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were all samples sealed in plastic bags?		<input type="checkbox"/>	
Did all samples arrive intact? If no, indicate below.	<input type="checkbox"/>		
Did all bottle labels agree with COC? (ID, dates and times)	<input type="checkbox"/>		
Were correct containers used for the tests required?	<input checked="" type="checkbox"/>		
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>		
Was there head space in VOA vials?		<input checked="" type="checkbox"/>	
Were the correct preservatives used?	<input checked="" type="checkbox"/>		
Were the samples scanned for presence of radioactivity?			<input checked="" type="checkbox"/>
Was total residual chlorine measured (Fish Bioassay samples only)? *			<input checked="" type="checkbox"/>

\*: If the answer is no, please inform Fish Bioassay Dept. immediately.

**Section 4**  
 Explanations/Comments

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**Section 5**  
 Was Project Manager notified of discrepancies: Y / N  N/A

Completed By: N. Afendikave Date: 5-1-08



**Chain of Custody Record**

21118

Page 1 of 1

Company <b>THRIFTY OIL CO.</b>		Phone <b>562(922-3581)</b>		A.L. Job No.					
Project Manager <b>JEFF SURYAKOSUMA</b>		Fax <b>562(922-7920)</b>		<b>Analysis Requested</b>					
Project Name <b>R.W.S.</b>		Project # <b>063</b>							
Site Name and Address <b>6125 TELEGRAPH AVE OAKLAND CA 94609</b>						<b>Test Instructions &amp; Comments</b>			
Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TPH4/2015M	ATEX 8260B	POXY GENAFES
1	MW-8-	04.29.08	14:30	H <sub>2</sub> O	4-VOA	HCL	X	X	X
2	MW-7-	↓	14:20	↓	↓	↓	X	X	X
3	MW-6.		14:05				X	X	X
4	MW-5.		13:30				X	X	X
5	MW-4.		13:00				X	X	X
6	MW-3.		12:50				X	X	X
7	MW-1		12:40				X	X	X
8	TRIP BLANK		00:00				2-VOA	HCL	X
9									
10									
11									
12									
13									
14									
15									

Sample Receipt - To Be Filled By Laboratory				Relinquished by <b>FMC</b> 1.		Relinquished by 2.		Relinquished by 3.	
Total Number of Containers		Properly Cooled Y / N / NA		Signature: <i>[Signature]</i>		Signature:		Signature:	
Custody Seals Y / N / NA		Samples Intact Y / N / NA		Printed Name: <b>SERDAR P.</b>		Printed Name:		Printed Name:	
Received in Good Condition Y / N		Samples Accepted Y / N		Date: _____ Time: _____		Date: _____ Time: _____		Date: _____ Time: _____	
Turn Around Time				Received By: <b>G.S.O.</b> 1.		Received By: <b>N. Efendić</b> 2.		Received By: <b>W.H.</b> 3.	
<input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <input type="checkbox"/> Same Day <input type="checkbox"/> 48 hrs. <input type="checkbox"/> 24 hrs. <input type="checkbox"/> 72 hrs.				Signature:		Signature:		Signature:	
				Printed Name:		Printed Name:		Printed Name:	
				Date: _____ Time: _____		Date: <b>5-1-08</b> Time: <b>9:00</b>		Date: <b>5-2-08</b> Time: <b>8:40</b>	

# ***APPENDIX C***

063

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

NAME OF INSPECTOR: SERBATH P.

DATE OF INSPECTION: 06-25-2008

OBSERVATIONS AND COMMENTS: DRAIN COMPRESSOR TANK,  
CHEEK TRANSFER PUMP, CHEEK PUMP IN MW-3  
CHEEK DRUMS AND HOBBED FOR LEAK

FLOW METER READING: -2213010 -

SAMPLES OBTAINED: N/A

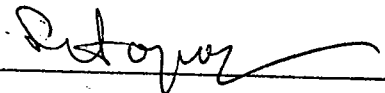
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 1.0

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 3.1

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

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

INSPECTOR'S SIGNATURE: 

063

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

NAME OF INSPECTOR: SERBAN P.

DATE OF INSPECTION: 06-20-2008

OBSERVATIONS AND COMMENTS: CHECK OIL, BELT, CHECK TRANSFER  
PUMP, CHECK PUMP IN MW-4, DRAIN  
WATER FROM FILTER/REGULATOR,

FLOW METER READING: 2205410

SAMPLES OBTAINED: 114

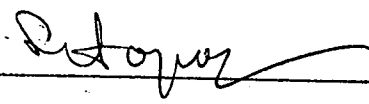
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 3.0

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

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

INSPECTOR'S SIGNATURE: 



063

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

NAME OF INSPECTOR: SERBATH P.

DATE OF INSPECTION: 06-10-2008

OBSERVATIONS AND  
COMMENTS: DRAPEL COMPRESSOR TANK, CHECK OPL,  
BELT, CHECK TRANSFER PUMP, CHECK DRUMS AND  
HOSES FOR LEAK, CHECK PUMP IN MW-4,

FLOW METER READING: -2198960-

SAMPLES OBTAINED: N/A

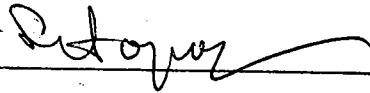
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 3.0

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

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

INSPECTOR'S SIGNATURE: 

063

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

NAME OF INSPECTOR: SERBA D.

DATE OF INSPECTION: 06-05-2008

OBSERVATIONS AND  
COMMENTS: REPAIR BY ITEM AFTER  
CHANGE CARBON AND COUPLER  
FOR HOSES WAS RECEIVED FROM  
GRAPHER CO

FLOW METER READING: -2196620-

SAMPLES OBTAINED: N/A

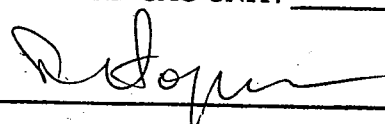
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 3.1

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

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

INSPECTOR'S SIGNATURE: 

063

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

NAME OF INSPECTOR: SERBATH P.

DATE OF INSPECTION: 05-23-2008

OBSERVATIONS AND  
COMMENTS: REFILL WITH CLEAN WATER ALL  
3 CARBON DRUMS AND REPLACE POR 24-48  
HOURS

FLOW METER READING: 2196620

SAMPLES OBTAINED: \_\_\_\_\_

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: *P. Serbath*

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

NAME OF INSPECTOR: SERBATA P.

DATE OF INSPECTION: 05-18-08

OBSERVATIONS AND  
COMMENTS: System is shut down for cartridge  
changer and for grit and to deliver  
contractions for hoses used between  
drums.

FLOW METER READING: 219620

SAMPLES OBTAINED: 1/1

PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: \_\_\_\_\_

INSPECTOR'S SIGNATURE: [Signature]

A) SS #: 063 SYSTEM TYPE:  
B) DEFICIENCY DESCRIPTION: MRP  
C) NAME OF REPORTING PARTY AND DATE: CERBAT P.  
D) DATE SCHEDULED: 05-16-08

1) NAME:	DATE/TIME
2) FINDINGS:	
3) HAS THE JOB BEEN COMPLETED? YES/NO IF "NO", PLEASE DESCRIBE WHY AND WHAT YOU NEED TO FINISH:	
4) POST REPAIR TEST RESULTS:	
5) THE CAUSE OF THE DEFICIENCY:	
BRIEF INSTRUCTIONS FOR PREVENTIVE MAINTENANCE TO THE TECHNICIAN:	
6) OTHER: Fill 3 CARBON DRUMS WITH CLEAN WATER FOR PREPARE TO RESTART SYSTEM WITH NEW CARBON	

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

NAME OF INSPECTOR: SERBAY A

DATE OF INSPECTION: 06.09.08

OBSERVATIONS AND COMMENTS: SHUT DOWN SYSTEM FOR  
CHANGE CARTRIDGE

FLOW METER READING: 2196620

SAMPLES OBTAINED: \_\_\_\_\_

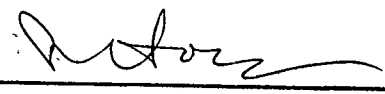
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE THIRD GAC UNIT: \_\_\_\_\_

INSPECTOR'S SIGNATURE: 

# SYSTEM STARTUP / SHUTDOWN REPORT

SITE:

ADDR:

DATE:

PERSON:

TOE 063  
 6125 FALCON HAVEN AVE  
 OKLAHOMA CITY, OK 73102  
 05.04.08  
 SEPBTH

Remediation System Type:  AS  SVE  DPE  GWT  FPR  Other

System Type		Action		Hour Meter (hrs)	Totalizer (gal)	Purpose / Comments
		Startup	Shutdown			
AS	Air Sparging					
SVE	Soil Vapor Extraction					
DPE	Dual-Phase Extraction					
GWT	Groundwater Treatment					
FPR	FP Recovery				2196620	
0	Other:					

**UTILITIES:**

Electrical Meter: Nil  
 Nat. gas Meter: Nil  
 Propane Tank Level: Nil

**OTHER NOTES:**

SHUT DOWN FOR CARTRIDGE CHANGE

**ALWAYS OBSERVE SAFETY PROCEDURES!**

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

NAME OF INSPECTOR: SERBACI D-

DATE OF INSPECTION: 05-02-2008

OBSERVATIONS AND  
COMMENTS: CHECK BELT, CHECK OIL, DRIFT,  
COMPRESSOR WALK, CHECK TRANSFER PUMP,  
HOSES NEED REPAIR, THEY ARE CRACKS WROTE  
CANNERS HOLD THEM AND INSIDE FROM HEAT, CHECK FOR  
ALGAE FROM SUN LIGHT, NEED HOSE WITH  
WALL TEMPERATURE AND COLLAPSE RESISTANCE.

FLOW METER READING: 2174340

SAMPLES OBTAINED: N/A

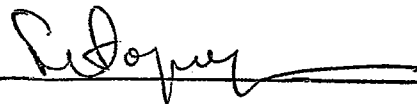
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 3.2

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.6

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

INSPECTOR'S SIGNATURE: 





# SYSTEM START / SHUTDOWN REPORT

SITE:

ADDR:

DATE:

PERSON:

TOE 063  
 6125 TELEGRAPH  
 OAKLAND, CA 94612  
 04-23-2008  
 JEPBTH

Remediation System Types:  AS  SVE  DPE  GWT  FPR  Other

System Type		Action		Hour Meter (hrs)	Totalizer (gal)	Purpose / Comments
		Startup	Shutdown			
AS	Air Sparging					
SVE	Soil Vapor Extraction					
DPE	Dual-Phase Extraction					
GWT	Groundwater Treatment				2165360	
FPR	FP Recovery					
O	Other:					

**UTILITIES:**

Electrical Meter: N/A

Nat. gas Meter: N/A

Propane Tank Level: N/A

**OTHER NOTES:**

RESTART SYSTEM AFTER VACATION AND TAKE WATER SAMPLES FROM SYSTEM

**ALWAYS OBSERVE SAFETY PROCEDURES!**

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

NAME OF INSPECTOR: SERBATO P-

DATE OF INSPECTION: 04-23-2008

OBSERVATIONS AND COMMENTS: RESTART SYSTEM AND TAKE

WATER SAMPLE FROM SYSTEM

FLOW METER READING: 2165.360

SAMPLES OBTAINED: SYSTEM WATER SAMPLE

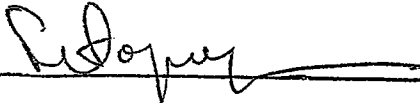
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 3.2

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

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

INSPECTOR'S SIGNATURE: 



**EARTH MANAGEMENT CO.**  
Environmental Remediation

# SYSTEM STARTUP / SHUTDOWN REPORT

SITE:

ADDR:

DATE:

PERSON:

TOC 063  
6125 W. DECATUR  
ORLANDA, FL 32612  
03-27-2008  
SEPATH

Remediation System Type:

- AS
- SVE
- DPE
- GWT
- FPR
- Other

System Type		Action		Hour Meter (hr)	Totalizer (gal)	Purpose / Comments
		Startup	Shutdown			
AS	Air Sparging					
SVE	Soil Vapor Extraction					
DPE	Dual-Phase Extraction					
GWT	Groundwater Treatment		✓		2165320	
FPR	FP Recovery					
O	Other					

**UTILITIES:**

Electrical Meter: \_\_\_\_\_

Nat. gas Meter: \_\_\_\_\_

Propane Tank Level: \_\_\_\_\_

**OTHER NOTES:**

SYSTEM WAS SHUTDOWN FOR MAINTENANCE

**ALWAYS OBSERVE SAFETY PROCEDURES!**

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

NAME OF INSPECTOR: SERBACI D-

DATE OF INSPECTION: 03-26-2008

OBSERVATIONS AND COMMENTS: SYSTEM WAS SHUT DOWN, TAKE

FLOWMETER AND CHECK FOR ALGAE OR DEBRIS

CAUSE FROM HOSES, RESTART SYSTEM,

CHECK OIL, (PUL), CHECK TRANSFER PUMP,

ADJUST COMPRESSOR TAKE

FLOW METER READING: 2164230

SAMPLES OBTAINED: N/A

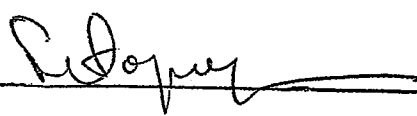
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 3.2

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.2

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

INSPECTOR'S SIGNATURE: 

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

NAME OF INSPECTOR: SERBACI D-

DATE OF INSPECTION: 03-14-2008.

OBSERVATIONS AND COMMENTS: DRAIN COMPRESSOR TANK, CHECK

PFELT, ADD OIL, CHECK TRANSFER PUMP, CHECK

PUMP IN MW-3, TAKE WATER SAMPLES FROM  
SYSTEM

FLOW METER READING: 21639.50

SAMPLES OBTAINED: 4.02

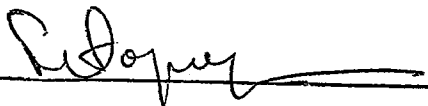
PRESSURE GAUGE READING UP STREAM OF THE BAG FILTER: 10

PRESSURE GAUGE READING DOWN STREAM OF THE CARTRIDGE FILTER: \_\_\_\_\_

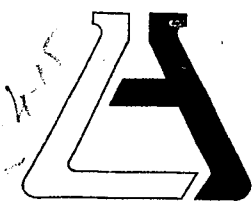
PRESSURE GAUGE READING DOWN STREAM OF THE PRIMARY GAC UNIT: 2.8

PRESSURE GAUGE READING DOWN STREAM OF THE SECONDARY GAC UNIT: 1.2

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

INSPECTOR'S SIGNATURE: 

# ***APPENDIX D***



**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

CLIENT Thrifty Oil Company (8871)

ATTN: Jeff Suryakusuma

13116 Imperial Hwy.

P.O. Box 2128

Santa Fe Springs, CA 90670

LAB REQUEST 208867 ✓

REPORTED 03/25/2008

RECEIVED 03/17/2008

PROJECT Station #063 ✓  
6125 Telegraph Ave., Oakland

SUBMITTER Client

COMMENTS

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

Order No.

881916

881917

881918

881919

✓  
Client Sample Identification

TOC# 063 Int-1

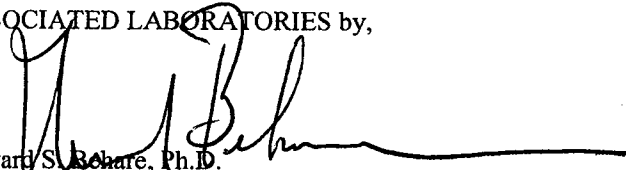
TOC# 063 Int-2

TOC# 063 Inlet

Laboratory Method Blank

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

ASSOCIATED LABORATORIES by,

  
Edward S. Bohare, Ph.D.  
Vice President

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

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TESTING & CONSULTING  
Chemical  
Microbiological  
Environmental

Order #: 881916

Client Sample ID: TOC# 063 Int-1

Matrix: WATER

Date Sampled: 03/14/2008 Time Sampled: 10:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8260B BTEX/MTBE Only</b>						
Benzene	ND	1	1	0.18	ug/L	03/21/08 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	0.20	ug/L	03/21/08 RP
Ethyl benzene	ND	1	5	0.21	ug/L	03/21/08 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	0.23	ug/L	03/21/08 RP
Methyl-tert-butylether (MTBE)	ND	1	1	0.19	ug/L	03/21/08 RP
Tert-amylmethylether (TAME)	ND	1	1.0	0.19	ug/L	03/21/08 RP
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	03/21/08 RP
Toluene	ND	1	5	0.24	ug/L	03/21/08 RP
Xylenes, total	ND	1	5	0.45	ug/L	03/21/08 RP
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
Surr1 - Dibromofluoromethane	102			%	70 - 130	
Surr2 - 1,2-Dichloroethane-d4	109			%	70 - 130	
Surr3 - Toluene-d8	100			%	70 - 130	
Surr4 - p-Bromofluorobenzene	96			%	70 - 130	
<b>8015B - Gasoline</b>						
Gasoline	ND	1	50	6.6	ug/L	03/19/08 LT
<b>Surrogates</b>				<b>Units</b>	<b>Control Limits</b>	
a,a,a-Trifluorotoluene	110			%	55 - 200	

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





Order #: 881917

Client Sample ID: TOC# 063 Int-2

Matrix: WATER

Date Sampled: 03/14/2008 Time Sampled: 10:10

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

Benzene	2.2	1	1	0.18	ug/L	03/19/08 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	0.20	ug/L	03/19/08 RP
Ethyl benzene	ND	1	5	0.21	ug/L	03/19/08 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	0.23	ug/L	03/19/08 RP
Methyl-tert-butylether (MTBE)	295	1	1	0.19	ug/L	03/19/08 RP
Tert-amylmethylether (TAME)	2.6	1	1.0	0.19	ug/L	03/19/08 RP
Tertiary butyl alcohol (TBA)	41	1	10	10	ug/L	03/19/08 RP
Toluene	1.5	J 1	5	0.24	ug/L	03/19/08 RP
Xylenes, total	ND	1	5	0.45	ug/L	03/19/08 RP

**Surrogates**

		Units	Control Limits
Surr1 - Dibromofluoromethane	101	%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	104	%	70 - 130
Surr3 - Toluene-d8	105	%	70 - 130
Surr4 - p-Bromofluorobenzene	99	%	70 - 130

**8015B - Gasoline**

Gasoline	144	1	50	6.6	ug/L	03/19/08 LT
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**Surrogates**

		Units	Control Limits
a,a,a-Trifluorotoluene	110	%	55 - 200

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

ND = Not detected below indicated MDL, J=Trace



Order #: 881918  
Matrix: WATER

Client Sample ID: TOC# 063 Inlet  
Date Sampled: 03/14/2008 Time Sampled: 10:20

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

Benzene	36	1	1	0.18	ug/L	03/19/08 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	0.20	ug/L	03/19/08 RP
Ethyl benzene	18	1	5	0.21	ug/L	03/19/08 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	0.23	ug/L	03/19/08 RP
Methyl-tert-butylether (MTBE)	27	1	1	0.19	ug/L	03/19/08 RP
Tert-amylmethylether (TAME)	ND	1	1.0	0.19	ug/L	03/19/08 RP
Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	03/19/08 RP
Toluene	1070	10	50.0	0.24	ug/L	03/21/08 RP
Xylenes, total	1290	10	50.0	0.45	ug/L	03/21/08 RP

**Surrogates**

					Units	Control Limits
Surr1 - Dibromofluoromethane	103				%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	104				%	70 - 130
Surr3 - Toluene-d8	102				%	70 - 130
Surr4 - p-Bromofluorobenzene	103				%	70 - 130

**8015B - Gasoline**

Gasoline	6160	5	250.0	6.6	ug/L	03/20/08 LT
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**Surrogates**

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

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



Order #: 881919

Client Sample ID: Laboratory Method Blank

Matrix: WATER

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

Benzene	ND	1	1	0.18 ug/L	03/19/08 RP
Di-isopropyl ether (DIPE)	ND	1	1.0	0.20 ug/L	03/19/08 RP
Ethyl benzene	ND	1	5	0.21 ug/L	03/19/08 RP
Ethyl-tertbutylether (ETBE)	ND	1	1.0	0.23 ug/L	03/19/08 RP
Methyl-tert-butylether (MTBE)	ND	1	1	0.19 ug/L	03/19/08 RP
Tert-amylmethylether (TAME)	ND	1	1.0	0.19 ug/L	03/19/08 RP
Tertiary butyl alcohol (TBA)	ND	1	10	10 ug/L	03/19/08 RP
Toluene	ND	1	5	0.24 ug/L	03/19/08 RP
Xylenes, total	ND	1	5	0.45 ug/L	03/19/08 RP

**Surrogates**

		Units	Control Limits
Surr1 - Dibromofluoromethane	96	%	70 - 130
Surr2 - 1,2-Dichloroethane-d4	100	%	70 - 130
Surr3 - Toluene-d8	97	%	70 - 130
Surr4 - p-Bromofluorobenzene	101	%	70 - 130

**8015B - Gasoline**

Gasoline	ND	1	50	6.6 ug/L	03/18/08 LT
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**Surrogates**

		Units	Control Limits
a,a,a-Trifluorotoluene	125	%	55 - 200

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



**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: G15-LCS&LCSD

Matrix: WATER

Prep. Date: March 18, 2008

Analysis Date 03/18/08-03/19/08

Lab ID#'s in Batch: 208771, 208777, 208867, 208943, 208970,

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

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	627	574	125	115	9

ND = Not Detected

LCS Result = Lab Control Sample Result

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

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

%REC LIMITS = 70 - 130
------------------------

RPD LIMITS = 30
-----------------

**SURROGATE RECOVERY**

Sample No.	AAA-TFT
QC Limit	55-200
Method Blank	125
LCS	167
LCSD	154

AAA-TFT = a,a,a-Trifluorotoluene

ASSOCIATED LABORATORIE

QA / QC EPA Methods 8260 - GCMS # 4

Sample ID: *MS/MSD Water Sample* 208770-487  
 Date Prepared: March 19, 2008  
 Date Analyzed: March 20, 2008  
 Sample Matrix: Water  
 Units: µg/L

Lab ID#'s in Batch: 208770, 208867, 208916, 208772

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	54.70	48.10	109	96	13	22	59 - 172
MTBE*	0.00	50.0	60.00	39.30	120	79	42	24	62 - 137
Benzene	0.00	50.0	55.10	52.90	110	106	4	24	62 - 137
Trichloroethene	0.00	50.0	55.70	46.40	111	93	18	21	66 - 142
Toluene	0.00	50.0	60.70	49.10	121	98	21	21	59 - 139
Chlorobenzene	0.00	50.0	54.80	48.20	110	96	13	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	53.50	107	59 - 172
MTBE	50.0	61.00	122	62 - 137
Benzene	50.0	52.20	104	62 - 137
Trichloroethene	50.0	53.00	106	66 - 142
Toluene	50.0	53.60	107	59 - 139
Chlorobenzene	50.0	54.40	109	60 - 133

\*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

*Surrogate Recovery*

Compound	MB 1 % Rec	MB 2 % Rec	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Dibromofluoromethane	96	99	99	104	98	70 - 135
1,2-Dichloroethane-d4	100	104	105	102	106	70 - 135
Toluene-d8	97	98	100	98	99	70 - 135
p-Bromofluorobenzene	101	100	93	91	96	70 - 135

ASSOCIATED LABORATORIE

QA / QC EPA Methods 8260 - GCMS # 4

Sample ID: *MS/MSD Water Sample* 209008-588  
 Date Prepared: March 20, 2008  
 Date Analyzed: March 21, 2008  
 Sample Matrix: Water  
 Units: µg/L

Lab ID#'s in Batch: 208789, 208942, 209008, 208943, 208770, 208867

Compound	Sample Conc.	Spike Added	Spike Res	Dup Res	Spike % Rec	Dup % Rec	RPD	QC RPD	Limits % Rec
1,1-Dichloroethene	0.00	50.0	57.80	59.60	116	119	3	22	59 - 172
MTBE*	0.00	50.0	53.00	33.70	106	67	45	24	62 - 137
Benzene	0.00	50.0	59.80	58.20	120	116	3	24	62 - 137
Trichloroethene	0.00	50.0	52.20	56.20	104	112	7	21	66 - 142
Toluene	0.00	50.0	51.50	54.90	103	110	6	21	59 - 139
Chlorobenzene	0.00	50.0	50.60	51.90	101	104	3	21	60 - 133

Sample ID: *LCS*

Compound	Spike Added	Spike Res	Spike % Rec	Limits % Rec
1,1-Dichloroethene	50.0	56.40	113	59 - 172
MTBE	50.0	58.70	117	62 - 137
Benzene	50.0	57.10	114	62 - 137
Trichloroethene	50.0	56.90	114	66 - 142
Toluene	50.0	58.10	116	59 - 139
Chlorobenzene	50.0	58.90	118	60 - 133

\*=Outside QC limits due to high concentration in sample

If Sample Result > 4 times Spike Added, then "NC"

*Surrogate Recovery*

Compound	MB 1 % Rec	MB 2 % Rec	MS % Rec	MSD % Rec	LCS % Rec	Limits % Rec
Dibromofluoromethane	102	97	112	113	102	70 - 135
1,2-Dichloroethane-d4	109	100	118	115	108	70 - 135
Toluene-d8	99	101	96	97	103	70 - 135
p-Bromofluorobenzene	96	100	94	99	99	70 - 135



# ASSOCIATED LABORATORIES

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

FAX 714-538-1209

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: Thru Fish Project: \_\_\_\_\_  
 Date Received: 3/17/08  
 Sample(s) received in cooler:  Yes  No (Skip Section 2)

**Section 2**  
 Was the cooler packed with:  Ice  Ice Packs  Bubble Wrap  Styrofoam  
 Paper  None  Other \_\_\_\_\_  
 Cooler or box temperature: \_\_\_\_\_  
 (Acceptance range is 2 to 6 Deg. C.) 3.4

**Section 3**

	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were custody seals present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If Yes - were they intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were all samples sealed in plastic bags?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all samples arrive intact? If no, indicate below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were correct containers used for the tests required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No head space in VOA vials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the correct preservatives used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the samples scanned for presence of radioactivity?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was total residual chlorine measured (Fish Bioassay samples only)? *	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\*: If the answer is no, please inform Fish Bioassay Dept. immediately.

**Section 4**  
 Explanations/Comments

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**Section 5**  
 Was Project Manager notified of discrepancies: Y / N N/A

Completed By: M. Stumel Date: 3/17/08

# Chain of Custody Record

**ASSOCIATED LABORATORIES**

806 North Batavia • Orange, CA 92868

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



208807 ✓

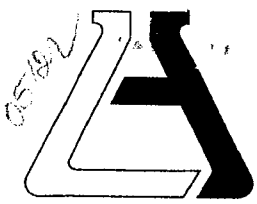
Page 1 of 1

Company: <b>THRIFTY OIL CO.</b>	Phone: <b>(562) 924-3581</b>	A.L. Job No.
Project Manager: <b>JEFF SURYAKUSUMIT</b>	Fax: <b>(562) 921-7510</b>	
Project Name: <b>SYSTEM WATER SYSTEM</b>	Project #: <b>063 ✓</b>	Analysis Requested
Site Name and Address: <b>6125 TELEGRAPH AVE OAKLAND CA 94609</b>		Test Instructions & Comments

Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TRITY (8015M)	BTEX (82601B)	OXYGEN (ATF)
1 INT-1		03.14.08	10:00	H <sub>2</sub> O	4-VOA	HCL	X	X	X
2 INT-2		03.14.08	10:10	H <sub>2</sub> O	4-VOA	HCL	X	X	X
3 INLET		03.14.08	10:20	H <sub>2</sub> O	4-VOA	HCL	X	X	X
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

<b>Sample Receipt - To Be Filled By Laboratory</b>				Relinquished by <b>E.M.C.</b> 1.	Relinquished by 2.	Relinquished by 3.
Total Number of Containers	Property Cooled Y/N/NA	Custody Seals Y/N/NA	Received in Good Condition Y/N	Signature: <i>[Signature]</i>	Signature:	Signature:
	Samples Intact Y/N/NA	Samples Accepted Y/N		Printed Name: <b>STEFAN P.</b>	Printed Name:	Printed Name:
				Date: <b>03.14.08</b> Time: <b>15:30</b>	Date:	Time:
<b>Turn Around Time</b>				Received By: <b>G.S.B.</b> 1.	Received By: <b>W.H. [Signature]</b> 2.	Received By: 3.
<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> Same Day	<input type="checkbox"/> 48 hrs.	Signature: <i>[Signature]</i>	Signature:	Signature:
		<input type="checkbox"/> 24 hrs.	<input type="checkbox"/> 72 hrs.	Printed Name: <b>Michael [Signature]</b>	Printed Name:	Printed Name:
				Date: <b>3/17/08</b> Time: <b>1:02</b>	Date: <b>3-17-08</b>	Time: <b>1:08</b>





**ASSOCIATED LABORATORIES**

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

FAX 714/538-1209

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

LAB REQUEST 211275 ✓  
REPORTED 05/02/2008  
RECEIVED 04/24/2008

PROJECT Station #063 ✓  
6125 Telegraph Ave., Oakland

SUBMITTER Client

COMMENTS

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

Order No.

892295

892296

Client Sample Identification

TOC# 063 Outlet PSP1

Laboratory Method Blank

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

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.  
Vice President

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

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TESTING & CONSULTING  
Chemical  
Microbiological  
Environmental

Order #: 892295

Client Sample ID: TOC# 063 Outlet PSP1

Matrix: WATER

Date Sampled: 04/23/2008 Time Sampled: 09:00

Analyte	Result	DF	PQL	MDL	Units	Date/Analyst
<b>8021B BTEX</b>						
Benzene	ND	1	0.3	0.15	ug/L	05/01/08 LT
Ethyl benzene	ND	1	0.3	0.09	ug/L	05/01/08 LT
Toluene	ND	1	0.3	0.12	ug/L	05/01/08 LT
Xylene (total)	ND	1	0.6	0.26	ug/L	05/01/08 LT
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
Trifluorotoluene (sur)	90				%	55 - 155
<b>8015B - Gasoline</b>						
Gasoline	ND	1	50	6.6	ug/L	05/01/08 LT
<b>Surrogates</b>					<b>Units</b>	<b>Control Limits</b>
a,a,a-Trifluorotoluene	90				%	55 - 200

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



Order #: 892296  
Matrix: WATER

Client Sample ID: Laboratory Method Blank

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

Benzene	ND	1	0.3	0.15	ug/L	05/01/08 LT
Ethyl benzene	ND	1	0.3	0.09	ug/L	05/01/08 LT
Toluene	ND	1	0.3	0.12	ug/L	05/01/08 LT
Xylene (total)	ND	1	0.6	0.26	ug/L	05/01/08 LT

**Surrogates**

					Units	Control Limits
Trifluorotoluene (sur)	92				%	55 - 155

**8015B - Gasoline**

Gasoline	ND	1	50	6.6	ug/L	05/01/08 LT
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**Surrogates**

					Units	Control Limits
a,a,a-Trifluorotoluene	92				%	55 - 200

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



**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: G1-LCS/LCSD  
 Matrix: WATER  
 Prep. Date: May 01-08  
 Analysis Date: May 01-08  
 Lab ID#'s in Batch: 211275, 211300, 211631 .

REPORTING UNITS = mg/Kg (mg/Kg)

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

Test	Method	Sample Result	Spike Added	Matrix LCS	Matrix LCSD	%Rec LCS	%Rec LCSD	RPD
Benzene	8021	ND	20	17.0	17.0	85	85	0
Toluene	8021	ND	20	16.7	16.6	83	83	1
Ethylbenzene	8021	ND	20	17.6	17.3	88	87	2
Xylenes	8021	ND	60	52.4	53.2	87	89	1

ND = Not Detected

RPD = Relative Percent Difference of Matrix LCS and Matrix LCSD

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

%REC LIMITS = 70 - 130
RPD LIMITS = 30

**SURROGATE RECOVERY**

Sample No.	AAA-TFT
QC Limit	55-200
Method Blank	92
LCS	98
LCSD	96

AAA-TFT = a,a,a-Trifluorotoluene

**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: G1-LCS&LCSD

Matrix: WATER

Prep. Date: May 1, 2008

Analysis Date May 1, 2008

Lab ID#'s in Batch: 211275, 211300, 211601, 211631 .

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

Reporting Units = µg/L

Test	Method	Method Blank	Spike Added	LCS Spike	LCSD Spk. Dup	%Rec LCS	%Rec LCSD	RPD
TPH	8015M-G	ND	500	487	491	97	98	1

ND = Not Detected

LCS Result = Lab Control Sample Result

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

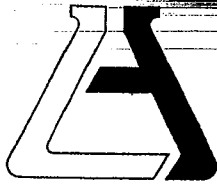
RPD = Relative Percent Difference of LCS Spike and LCS Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

**SURROGATE RECOVERY**

Sample No.	AAA-TFT
QC Limit	55-200
Method Blank	92
LCS	193
LCSD	170

AAA-TFT = a,a,a-Trifluorotoluene



# ASSOCIATED LABORATORIES

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

FAX 714-538-1209

## SAMPLE ACCEPTANCE CHECKLIST

**Section 1**  
 Client: Thrifty Project: \_\_\_\_\_  
 Date Received: 4-24  
 Sample(s) received in cooler?  Yes No (Skip Section 2)

**Section 2**  
 Was the cooler packed with:  Ice  Ice Packs  Bubble Wrap  Styrofoam  
 Paper  None  Other \_\_\_\_\_  
 Cooler or box temperature: \_\_\_\_\_  
 (Acceptance range is 2 to 6 Deg. C.)

Section 3	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>		
Were custody seals present?	<input checked="" type="checkbox"/>		
If Yes - were they intact?			<input checked="" type="checkbox"/>
Were all samples sealed in plastic bags?	<input checked="" type="checkbox"/>		
Did all samples arrive intact? If no, indicate below.	<input checked="" type="checkbox"/>		
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>		
Were correct containers used for the tests required?	<input checked="" type="checkbox"/>		
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>		
Was there head space in VOA vials?		<input checked="" type="checkbox"/>	
Were the correct preservatives used?	<input checked="" type="checkbox"/>		
Were the samples scanned for presence of radioactivity?			<input checked="" type="checkbox"/>
Was total residual chlorine measured (Fish Bioassay samples only)? *			<input checked="" type="checkbox"/>

\*: If the answer is no, please inform Fish Bioassay Dept. immediately.

**Section 4**  
 Explanations/Comments

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**Section 5**  
 Was Project Manager notified of discrepancies: Y / N  N/A

Completed By: [Signature] Date: 4-24-08

# Chain of Custody Record



211075 ✓

Company TARIFTY OIL CO. Phone 562(921-3581)  
 Project Manager JEFF SUDYARUSUMITRA Fax 562(921-7510)  
 Project Name SYSTEM WATER SAMPLING Project # 063 ✓  
 Site Name and Address 6125 TELEGRAPH AVE  
OAKLAND CA 94604

A.L. Job No.

### Analysis Requested

### Test Instructions & Comments

Sample ID	Lab ID	Date	Time	Matrix	Container Number/Size	Pres.	TP40 (3015M)	BTX (3021B)												
1		04.23.08	9:00	H <sub>2</sub> O	4-VOL	ICL	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 \_\_\_\_\_ 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 \_\_\_\_\_

Relinquished by Sampler: FMC 1.  
 Signature: [Signature]  
 Printed Name: STEPHAN P  
 Date: 04.23.08 Time: 16:00

Relinquished by 2.  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by 3.  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

### Turn Around Time

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

Received By: G.S.O. 1.  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: [Signature]  
 Signature: \_\_\_\_\_  
 Printed Name: RAMOS  
 Date: 4-24 Time: 10:09

Received By: [Signature] 3.  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: 4-28-08 Time: 8:20