

- Run 8260 for 1,2DCA



**Chevron**

EDB and other oxygenates in MW-1, MW-4 + MW-9  
- Why MW-1 and MW-4 discontinued?

Chevron U.S.A. Products Company  
6001 Bollinger Canyon Rd. Bldg. L  
P. O. Box 6004  
San Ramon, CA 94583-0804

Site Assessment and  
Remediation Group  
Phone (510) 842-9500  
Fax (510) 842-5370

Date: June 14, 1999  
To: Distribution  
Re: Groundwater Monitoring Report

The enclosed groundwater monitoring report has been properly reviewed by a Chevron authorized representative. Agency guidelines have been followed. Blaine Tech Services is authorized to distribute the report directly to interested parties.

If you have any questions, please call me at (510) 842-8695

Sincerely,

Brett Hunter  
Site Assessment and Remediation  
Project Manager

99 JUN 28 PM 3:25

ENVIRONMENTAL PROTECTION

**BLAINE**  
TECH SERVICES INC.



1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE

June 14, 1999

Brett Hunter  
Chevron U.S.A. Products Company  
P.O. Box 6004  
San Ramon, CA 94583-0904

**1st Quarter 1999 Monitoring at 9-5542**

First Quarter 1999 Groundwater Monitoring at  
Chevron Service Station Number 9-5542  
7007 San Ramon Valley Rd.  
Dublin, CA

Monitoring Performed on March 26, 1999

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**Groundwater Sampling Report 990326-H-1**

This report covers the routine monitoring of groundwater wells at this Chevron facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated volume of a three-case volume purge, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to McKittrick Waste Treatment Site for disposal.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater elevation calculations taken from the computer plotted gradient

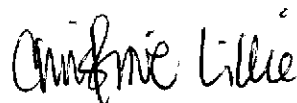
map which is located in the **Professional Engineering Appendix**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,



Christine Lillie  
Project Coordinator

CAL/sb

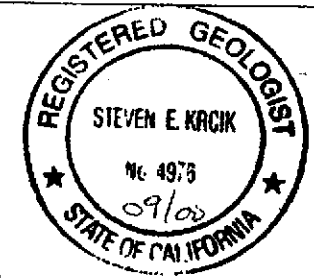
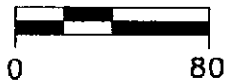
attachments: Professional Engineering Appendix  
Cumulative Table of Well Data and Analytical Results  
Analytical Appendix  
Field Data Sheets

cc: Eva Chu, Alameda County Environmental Health  
Mary Diamond, See's Candy

# **Professional Engineering Appendix**

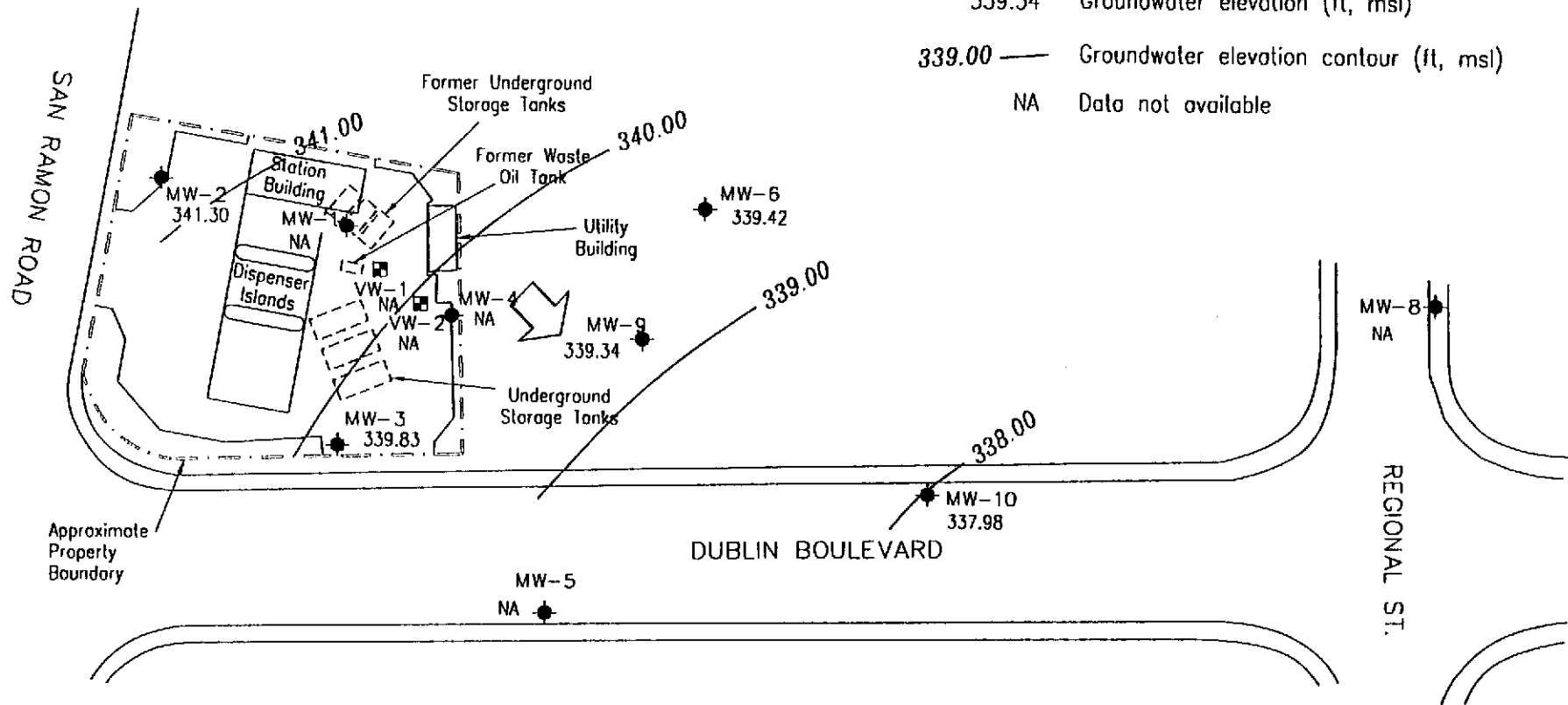


SCALE (ft)



EXPLANATION:

- ◆ Groundwater monitoring well
- ▣ Vadose well
- 339.34 Groundwater elevation (ft, msl)
- 339.00 — Groundwater elevation contour (ft, msl)
- NA Data not available



Ref. 5542-qm.dwg  
Base map from Galtier-Ryan, Inc.

PREPARED BY

**RRM**  
engineering contracting firm

**Chevron Station 9-5542**  
7007 San Ramon Road  
Dublin, California

**GROUNDWATER ELEVATION CONTOUR MAP,**  
MARCH 26, 1999

FIGURE:  
**1**  
PROJECT:  
DAC04

# **Table of Well Data and Analytical Results**

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>MW-1</b>														
4/3-4/90	363.98	--	--	--	46,000	8400	7400	860	5600	--	--	--	1.04	--
4/3-4/90	363.98	--	--	Duplicate	43,000	8400	7200	840	5200	--	--	--	1.1	--
05/31/91	363.98	338.31	25.67	--	31,000	7400	2500	630	2100	--	--	2.0	--	ND***
05/31/91	363.98	--	--	--	--	--	--	--	--	--	--	--	--	--
06/21/91	363.98	337.75	26.23	--	--	--	--	--	--	--	<5000	--	--	--
07/17/91	363.98	337.45	26.53	--	--	--	--	--	--	--	--	--	--	--
09/20/91	363.98	--	--	--	31,000	3000	2800	610	3100	--	--	0.6	--	ND***
10/04/91	363.98	336.08	27.90	--	--	--	--	--	--	--	--	--	--	--
12/19/91	363.98	335.86	28.12	--	20,000	5200	1700	560	2000	--	--	3.3	--	ND***
03/19/92	363.98	339.35	24.63	--	30,000	8500	3600	590	2400	--	--	2.7	--	ND***
06/19/92	364.32	338.09	26.23	--	25,000	1100	2000	520	1800	--	--	--	--	ND***
09/22/92	364.32	336.59	27.73	--	21,000	8000	3500	670	2900	--	--	--	--	--
12/18/92	364.32	337.56	26.76	--	79,000	12,000	12,000	1600	8500	--	--	--	--	--
03/10/93	364.32	--	--	*	45,000	16,000	14,000	1100	5500	--	--	--	--	--
03/22/93	364.32	--	--	**	--	--	--	--	--	--	--	--	--	--
06/14/93	364.32	--	--	**	--	--	--	--	--	--	--	--	--	--
07/25/93	364.32	--	--	**	--	--	--	--	--	--	--	--	--	--
09/23/93	364.32	--	--	**	--	--	--	--	--	--	--	--	--	--
03/21/94	364.32	338.16	26.16	--	5900	1600	560	140	330	--	--	--	--	--
07/06/94	364.32	337.12	27.20	--	--	--	--	--	--	--	--	--	--	--
08/26/94	364.32	--	--	--	20,000	5300	4900	610	2900	--	--	--	--	--
09/22/94	364.32	336.88	27.44	--	42,000	10,000	8300	1000	4900	--	--	--	--	--
12/08/94	364.32	337.62	26.70	--	38,000	9000	7700	830	3800	--	--	--	--	--
03/06/95	364.32	340.64	23.68	--	47,000	9400	7100	750	3400	--	--	--	--	--
06/08/95	364.32	341.64	22.68	--	170,000	29,000	29,000	2600	13,000	--	--	--	--	--
09/13/95	364.32	339.22	25.10	--	39,000	11,000	10,000	1100	4900	--	--	--	--	--
12/16/95	364.32	338.24	26.08	--	40,000	7000	6300	570	2500	--	--	--	--	--
03/28/96	364.32	342.12	22.20	--	16,000	3700	3200	330	1500	<2.5	--	--	--	--
06/27/96	364.32	340.12	24.20	--	40,000	6900	8700	830	4000	<120	--	--	--	--
09/30/96	364.32	338.70	25.62	--	190,000	24,000	31,000	2900	14,000	<120	--	--	--	--
12/30/96	364.32	340.11	24.21	--	130,000	25,000	32,000	2900	15,000	<500	--	--	--	--

CONTINUED ON NEXT PAGE

\*Top of casing elevation surveyed by Ron Miller, PE #15816, on January 13, 1994.

\*\*Monitoring well part of remediation system.

\*\*\*Other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>MW-1 (CONT'D)</b>														
03/11/97	364.32	340.60	23.72	--										
06/10/97	364.32	339.00	25.32	--	76,000	11,000	13,000	1000	6500	<500	--	--	--	--
10/01/97	364.32	338.31	26.01	--	63,000	9900	15,000	1400	7000	<500	--	--	--	--
12/17/97	364.32	--	--	--	48,000	8400	12,000	1200	5700	<500	--	--	--	--
03/29/98	364.32	--	--	Discontinued	--	--	--	--	--	--	--	--	--	--
09/12/98	364.32	340.10	24.22	*	--	--	--	--	--	--	--	--	--	--
09/12/98	364.32	340.10	24.22	Confirmation Run	61,000	10,000	13,000	1700	7600	<125	--	--	--	--
					--	--	--	--	--	143	--	--	--	--

\*Oxygenate compounds were not detected.



## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>MW-2</b>														
4/3-4/90	364.19	--	--	--										
05/31/91	364.19	338.68	25.51	--	<50	<0.3	<0.3	<0.3	<0.6	--	--	--	--	--
05/31/91	364.19	--	--	--	100	3.1	4.2	0.7	2.0	--	--	--	<0.02	--
06/21/91	364.19	338.06	26.13	--	--	--	--	--	--	--	<5000	<0.5	--	ND*
07/17/91	364.19	337.73	26.46	--	--	--	--	--	--	--	--	--	--	--
09/20/91	364.19	--	--	--	--	--	--	--	--	--	--	--	--	--
10/04/91	364.19	336.40	27.79	--	68	1.3	1.6	0.8	3.0	--	--	--	--	--
12/19/91	364.19	336.13	28.06	--	--	--	--	--	--	--	--	--	--	--
03/19/92	364.19	339.73	24.46	--	<50	0.6	1.2	0.8	2.5	--	--	--	--	--
06/19/92	364.64	338.54	26.10	--	<50	2.5	2.0	1.1	2.4	--	--	--	--	--
09/22/92	364.64	337.04	27.60	--	<50	<0.5	0.6	0.7	1.2	--	--	--	--	--
12/18/92	364.64	338.32	26.32	--	200	16	42	6.1	32	--	--	--	--	--
03/22/93	364.64	343.29	21.39	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/14/93	364.64	339.49	25.15	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/25/93	364.64	340.12	24.52	--	--	--	--	--	--	--	--	--	--	--
09/23/93	364.64	339.01	25.63	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/22/93	364.64	338.30	26.34	--	72	12	4.0	6.0	8.0	--	--	--	--	--
03/21/94	364.64	338.81	25.83	--	1600	25	<0.5	3.8	4.8	--	--	--	--	--
06/29/94	364.64	--	--	--	<50	0.7	3.3	<0.5	1.9	--	--	--	--	--
07/06/94	364.64	337.94	26.70	--	52	0.8	0.9	0.8	1.9	--	--	--	--	--
09/22/94	364.64	337.82	26.82	--	--	--	--	--	--	--	--	--	--	--
12/08/94	364.64	338.36	26.28	--	<50	0.7	<0.5	<0.5	0.6	--	--	--	--	--
03/06/95	364.64	341.37	23.27	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/08/95	364.64	342.26	22.38	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/13/95	364.64	339.95	24.95	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/16/95	364.64	338.86	25.78	--	<50	<0.5	0.8	<0.5	0.8	--	--	--	--	--
03/28/96	364.64	343.30	21.34	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/27/96	364.64	340.65	23.99	--	<50	0.8	5.6	1.0	6.2	<2.5	--	--	--	--
09/30/96	364.64	339.50	25.14	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/30/96	364.64	341.03	23.61	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
03/11/97	364.64	341.47	23.17	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
06/10/97	364.64	339.92	24.72	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
10/01/97	364.64	338.79	25.85	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/17/97	364.64	339.66	24.98	--	<50	1.0	1.2	<0.5	1.7	<5.0	--	--	--	--
03/29/98	364.64	344.30	20.34	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
09/12/98	364.64	341.05	23.59	--	110	20	12	4.3	14	5.4	--	--	--	--
03/26/99	364.64	341.30	23.34	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
					<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--	--	--

\*Other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>MW-3</b>														
4/3-4/90	361.92	--	--	--										
05/31/91	361.92	338.72	23.20	--	2200	36	5.0	6.0	17	--	--	--	--	--
05/31/91	361.92	--	--	--	2200	130	11	31	78	--	--	--	<0.02	--
06/21/91	361.92	337.79	24.13	--	--	--	--	--	--	--	--	19	--	ND*
07/17/91	361.92	337.73	24.59	--	--	--	--	--	--	--	<5000	--	--	--
09/20/91	361.92	335.94	25.98	--	--	--	--	--	--	--	--	--	--	--
12/19/91	361.92	335.68	26.24	--	2200	190	6.0	24	32	--	--	--	--	--
03/19/92	361.92	339.46	22.46	--	640	73	27	17	56	--	--	--	--	--
06/19/92	362.26	337.94	24.32	--	4500	1000	15	91	240	--	--	--	--	--
09/22/92	362.26	336.42	25.84	--	1100	89	3.3	9.1	13	--	--	--	--	--
12/18/92	362.26	337.86	24.40	--	1400	81	51	15	49	--	--	--	--	--
03/22/93	362.26	342.54	19.72	--	1100	2.0	1.1	53	38	--	--	--	--	--
06/14/93	362.26	338.74	23.52	--	1600	96	9.0	14	91	--	--	--	--	--
07/25/93	362.26	339.05	23.21	--	--	--	--	--	--	--	--	--	--	--
09/23/93	362.26	338.24	24.02	--	1200	19	6.0	2.0	5.0	--	--	--	--	--
12/22/93	362.26	337.59	24.67	--	1500	35	<0.5	5.0	13	--	--	--	--	--
03/21/94	362.26	338.21	24.05	--	1500	26	<0.5	3.9	4.9	--	--	--	--	--
06/29/94	362.26	--	--	--	1400	22	14	1.1	5.3	--	--	--	--	--
07/06/94	362.26	337.18	25.08	--	1700	90	6.1	20	81	--	--	--	--	--
09/22/94	362.26	337.48	24.78	--	--	--	--	--	--	--	--	--	--	--
12/08/94	362.26	337.91	24.35	--	2600	72	7.6	110	370	--	--	--	--	--
03/06/95	362.26	340.79	21.47	--	2700	32	<0.5	100	140	--	--	--	--	--
06/08/95	362.26	341.27	20.99	--	1000	4.0	9.9	8.8	7.7	--	--	--	--	--
09/13/95	362.26	338.75	23.51	--	1500	13	3.2	12	17	--	--	--	--	--
12/16/95	362.26	338.26	24.00	--	2100	12	79	76	420	--	--	--	--	--
03/28/96	362.26	342.36	19.90	--	650	<0.5	<0.5	4.4	6.5	12	--	--	--	--
06/27/96	362.26	340.28	21.98	--	1500	4.3	6.5	60	100	15	--	--	--	--
09/30/96	362.26	338.44	23.82	--	1200	<0.5	<0.5	1.9	2.0	13	--	--	--	--
12/30/96	362.26	339.96	22.30	--	620	<0.5	<0.5	<0.5	0.8	10	--	--	--	--
03/11/97	362.26	340.75	21.51	--	1200	0.6	<0.5	0.6	0.7	12	--	--	--	--
06/10/97	362.26	338.66	23.60	--	1400	<0.5	3.1	<0.5	0.7	12	--	--	--	--
10/01/97	362.26	337.53	24.73	--	1400	1.8	4.8	0.8	1.1	32	--	--	--	--
12/17/97	362.26	338.99	23.27	--	1100	0.6	2.2	1.0	1.3	18	--	--	--	--
03/29/98	362.26	342.01	20.25	--	450**	7.9	1.2	<1.0	1.5	7.8	--	--	--	--
09/12/98	362.26	340.38	21.88	--	890	0.84	1.4	1.3	0.68	11	--	--	--	--
03/26/99	362.26	339.83	22.43	--	740**	<0.5	<0.5	<0.5	<0.5	100	--	--	--	--
					661	<0.5	34.9	0.848	1.36	5.68	--	--	--	--

\*Other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.

\*\*Chromatogram pattern indicated an unidentified hydrocarbon.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>MW-4</b>														
4/3-4/90	362.70	--	--	--										
4/3-4/90	362.70	--	--	--	43,000	4000	5000	790	5500	--	18,000	--	--	--
05/31/91	362.70	338.03	24.67	--	--	6000	8200	1500	--	--	--	--	<0.02	--
05/31/91	362.70	--	--	--	34,000	2900	2900	680	3300	--	--	--	--	--
06/21/91	362.70	337.39	25.31	--	<5000	--	--	--	--	--	--	<0.5	--	ND*
07/17/91	362.70	336.97	25.73	--	--	--	--	--	--	--	--	--	--	--
09/20/91	362.70	--	--	--	--	--	--	--	--	--	--	--	--	--
10/04/91	362.70	335.62	27.08	--	37,000	4000	3200	580	3000	--	--	--	--	--
12/19/91	362.70	335.46	27.24	--	--	--	--	--	--	--	--	9.2	--	ND*
03/19/92	362.70	339.04	23.66	--	41,000	5500	4900	1000	4400	--	--	--	--	--
06/19/92	363.07	337.74	25.33	--	21,000	3800	2900	500	3200	--	--	17	--	ND*
09/22/92	363.07	336.17	26.90	--	27,000	1800	1600	570	1900	--	--	15	--	ND**
12/18/92	363.07	337.45	25.62	--	20,000	4100	2700	670	3200	--	<5000	--	--	--
03/22/93	363.07	342.27	20.80	--	15,000	2200	2000	370	1600	--	<5000	--	--	--
06/14/93	363.07	337.34	25.73	--	41,000	3900	5100	840	4500	--	<5000	--	--	--
07/25/93	363.07	339.05	24.02	--	--	--	--	--	--	--	5000	--	--	--
09/23/93	363.07	338.07	25.00	--	94,000	18,000	30,000	2400	14,000	--	--	--	--	--
12/22/93	363.07	337.35	25.72	--	23,000	4700	2000	900	4600	--	<5000	--	--	--
03/21/94	363.07	337.98	25.09	--	18,000	2800	1300	420	1700	--	<5000	--	--	--
06/29/94	363.07	--	--	--	21,000	2800	1700	540	1900	--	<5000	--	--	--
07/06/94	363.07	336.96	26.11	--	25,000	4000	2600	960	3300	--	<5000	--	--	--
09/22/94	363.07	336.53	26.54	--	--	--	--	--	--	--	<5000	--	--	--
12/08/94	363.07	337.52	25.55	***	45,000	11,000	8800	1000	5100	--	--	--	--	--
03/06/95	363.07	340.43	22.64	--	6700	1200	720	34	1100	--	<5000	--	--	--
06/08/95	363.07	341.06	22.01	--	8900	1400	540	350	940	--	<5000	--	--	--
09/13/95	363.07	338.65	24.42	--	15,000	2000	1500	400	1500	--	--	--	--	--
12/16/95	363.07	337.89	25.18	--	10,000^	3100	670	500	1400	--	--	--	--	--
					15,000	2900	960	420	1200	<2.5	--	--	--	--

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\*Other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.

\*\*Chloroform and bromodichloromethane were detected at 1.3 and 0.9 ppb, respectively. Other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.

\*\*\*TPH(G) and BTEX results are estimated concentrations. Due to laboratory error, sample was analyzed past the recommended holding time. (GTEL).

^Laboratory report indicates uncategorized compound is not included in gasoline concentration.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>MW-4 (CONT'D)</b>														
03/28/96	363.07	342.10	20.97	--	8600	1300	920	330	1100	<10	--	--	--	--
06/27/96	363.07	341.44	21.63	--	18,000	2600	1500	740	2400	<50	--	--	--	--
09/30/96	363.07	338.22	24.85	--	24,000	3200	1200	710	2200	87	--	--	--	--
12/30/96	363.07	339.79	23.28	--	15,000	2300	1000	600	1900	84	--	--	--	--
03/11/97	363.07	340.45	22.62	--	23,000	2600	920	780	2200	84	--	--	--	--
06/10/97	363.07	338.58	24.49	--	17,000	2900	790	750	1700	<100	--	--	--	--
10/01/97	363.07	337.57	25.50	--	21,000	3600	1400	1300	2700	<50	--	--	--	--
12/17/97	363.07	--	--	--	--	--	--	--	--	--	--	--	--	--
03/29/98	363.07	--	--	Discontinued	--	--	--	--	--	--	--	--	--	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>MW-5</b>														
06/21/91	359.95	336.78	23.17	--										
06/21/91	359.95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/17/91	359.95	336.27	23.68	--	--	--	--	--	--	--	--	--	--	--
09/20/91	359.95	--	--	--	--	--	--	--	--	--	--	<0.5	--	ND**
10/04/91	359.95	334.75	25.20	--	170*	0.8	0.9	<0.5	1.5	--	--	--	--	--
12/19/91	359.95	334.75	25.20	--	--	--	--	--	--	--	--	--	--	--
03/19/92	359.95	338.74	21.21	--	<50	0.7	0.7	<0.5	1.4	--	--	--	--	--
06/19/92	360.28	336.86	23.42	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/22/92	360.28	335.31	24.97	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/18/92	360.28	336.76	23.52	--	150	13	34	5.0	26	--	--	--	--	--
03/10/93	360.28	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/22/93	360.28	341.18	19.10	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/14/93	360.28	337.57	22.71	--	--	--	--	--	--	--	--	--	--	--
07/25/93	360.28	338.29	21.99	--	--	--	--	--	--	--	--	--	--	--
09/23/93	360.28	336.80	23.48	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/22/93	360.28	336.30	23.98	--	<50	3.0	1.0	1.0	2.0	--	--	--	--	--
03/21/94	360.28	337.10	23.18	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/29/94	360.28	--	--	--	<50	2.4	1.4	<0.5	2.0	--	--	--	--	--
07/06/94	360.28	335.87	24.41	--	<50	<0.5	<0.5	<0.5	1.0	--	--	--	--	--
09/22/94	360.28	335.50	24.78	--	--	--	--	--	--	--	--	--	--	--
12/08/94	360.28	336.86	23.42	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/06/95	360.28	339.63	20.65	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/08/95	360.28	339.52	20.76	--	67	1.9	2.5	4.7	19	--	--	--	--	--
09/13/95	360.28	337.12	23.16	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/16/95	360.28	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/28/96	360.28	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
06/27/96	360.28	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
09/30/96	360.28	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
12/30/96	360.28	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
03/11/97	360.28	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
06/10/97	360.28	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
10/01/97	360.28	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
12/17/97	360.28	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
03/26/99	360.28	--	--	Discontinued	--	--	--	--	--	--	--	--	--	--
				Inaccessible	--	--	--	--	--	--	--	--	--	--

\*Chromatogram pattern indicated an unidentified hydrocarbon.

\*\*Other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCS
<b>MW-6</b>														
06/21/91	360.22	336.67	23.55	--	3700	50	2.6	150	340	--	--	--	--	--
06/21/91	360.22	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/91	360.22	336.22	24.00	--	--	--	--	--	--	--	--	<0.5	--	ND**
09/20/91	360.22	--	--	--	3200	28	<0.5	140	100	--	--	--	--	--
10/04/91	360.22	334.93	25.29	--	--	--	--	--	--	--	--	--	--	--
12/19/91	360.22	334.88	25.34	--	380	2.7	4.0	15	10	--	--	--	--	--
03/19/92	360.22	338.17	22.05	--	3400	57	4.5	330	360	--	--	--	--	--
06/19/92	360.58	337.06	23.52	--	980	11	4.2	57	38	--	--	--	--	--
09/22/92	360.58	334.98	25.60	--	1100	22	41	77	58	--	--	--	--	--
12/18/92	360.58	336.40	24.18	--	1900	3.2	1.3	58	47	--	--	--	--	--
03/10/93	360.58	--	--	--	1400	30	9.0	8.0	22	--	--	--	--	--
03/22/93	360.58	341.22	19.36	--	--	--	--	--	--	--	--	--	--	--
06/14/93	360.58	337.10	23.48	--	--	--	--	--	--	--	--	--	--	--
07/25/93	360.58	338.28	22.30	--	83*	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/23/93	360.58	337.38	23.20	--	200	6.0	2.0	3.0	3.0	--	--	--	--	--
12/22/93	360.58	336.67	23.91	--	130	<0.5	1.8	1.2	1.5	--	--	--	--	--
03/21/94	360.58	337.31	23.27	--	290	3.0	10	1.6	4.7	--	--	--	--	--
06/29/94	360.58	--	--	--	300	0.6	1.2	2.4	4.6	--	--	--	--	--
07/06/94	360.58	336.31	24.27	--	--	--	--	--	--	--	--	--	--	--
09/22/94	360.58	335.74	24.84	--	2300	58	3.6	100	290	--	--	--	--	--
12/08/94	360.58	336.73	23.85	--	<50	<0.5	<0.5	<0.5	0.9	--	--	--	--	--
03/06/95	360.58	339.67	20.91	--	360	2.0	3.6	0.9	2.3	--	--	--	--	--
06/08/95	360.58	340.40	20.18	--	230	<0.5	<0.5	1.0	1.6	--	--	--	--	--
09/13/95	360.58	337.05	23.53	--	88	<0.5	<0.5	<0.5	1.1	--	--	--	--	--
12/16/95	360.58	337.20	23.38	--	<50	<0.5	<0.5	<0.5	<0.5	7.3	--	--	--	--
03/28/96	360.58	341.21	19.37	--	130	<0.5	<0.5	<0.5	<0.5	9.2	--	--	--	--
06/27/96	360.58	338.92	21.66	--	<50	<0.5	<0.5	<0.5	<0.5	5.7	--	--	--	--
09/30/96	360.58	337.52	23.06	--	50	<0.5	<0.5	<0.5	<0.5	6.3	--	--	--	--
12/30/96	360.58	339.12	21.46	--	90	<0.5	<0.5	<0.5	<0.5	5.5	--	--	--	--

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\*Uncategorized compound not included in gasoline total.

\*\*Other HVOCS were not detected at detection limits ranging from 0.5 to 1 ppb.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>MW-6 (CONT'D)</b>														
03/11/97	360.58	339.67	20.91	--										
06/10/97	360.58	337.93	22.65	--	80	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
10/01/97	360.58	336.95	23.63	--	<50	1.6	2.3	<0.5	1.2	<5.0	--	--	--	--
12/17/97	360.58	337.81	22.77	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
03/29/98	360.58	342.24	18.34	--	92	0.98	<0.5	0.72	1.6	2.7	--	--	--	--
09/12/98	360.58	338.90	21.68	--	95***	<0.5	<0.5	<0.5	<0.5	3.0	--	--	--	--
03/26/99	360.58	339.42	21.16	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
					<50	<0.5	<0.5	<0.5	<0.5	<2.0	--	--	--	--

\*\*\*Chromatogram pattern indicates an unidentified hydrocarbon.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>MW-7</b>														
06/21/91	360.63	337.18	23.45	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/21/91	360.63	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/91	360.63	336.73	23.90	--	--	--	--	--	--	--	--	<0.5	--	ND**
09/20/91	360.63	--	--	--	69	4.4	3.3	1.2	3.9	--	--	--	--	--
10/04/91	360.63	335.60	25.03	--	--	--	--	--	--	--	--	--	--	--
12/19/91	360.63	335.53	25.10	--	<50	0.9	2.8	1.7	5.9	--	--	--	--	--
03/19/92	360.63	337.89	22.74	--	<50	1.1	0.6	0.9	2.5	--	--	--	--	--
06/19/92	360.99	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
09/22/92	360.99	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
12/18/92	360.99	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
03/22/93	360.99	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
06/14/93	360.99	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
07/25/93	360.99	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--
12/23/93	361.68	338.01	23.67	*	--	--	--	--	--	--	--	--	--	--
03/21/94	361.68	337.55	24.13	--	<50	0.9	0.5	<0.5	<0.5	--	--	--	--	--
06/29/94	361.68	--	--	--	<50	0.5	1.1	<0.5	1.4	--	--	--	--	--
07/06/94	361.68	335.23	26.45	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/22/94	361.68	334.28	27.40	--	11,000	1900	230	310	970	--	--	--	--	--
12/08/94	361.68	335.45	26.23	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/06/95	361.68	338.49	23.19	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/08/95	361.68	339.54	22.14	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/13/95	361.68	337.13	24.55	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/16/95	361.68	335.94	25.74	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/28/96	361.68	339.96	21.72	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
06/27/96	361.68	338.18	23.50	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
09/30/96	361.68	336.48	25.20	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/30/96	361.68	337.80	23.88	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
03/11/97	361.68	338.69	22.99	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
06/10/97	361.68	336.98	24.70	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
10/01/97	361.68	335.98	25.70	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/17/97	361.68	--	--	Discontinued	--	--	--	--	--	<5.0	--	--	--	--

\*Top of casing elevation surveyed by Ron Miller, PE #15816, on January 13, 1994.

\*\*Other HVOCs were not detected at detection limits ranging from 0.5 to 1 ppb.



## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>MW-8</b>														
12/12/91	354.89	--	22.54	--										
06/19/92	354.89	334.42	20.47	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/22/92	354.89	325.09	29.80	--	<50	1.2	1.4	0.5	2.9	--	--	--	--	--
12/18/92	354.89	333.71	21.18	--	180	17	42	6.0	31	--	--	--	--	--
03/10/93	354.89	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/22/93	354.89	337.98	16.91	--	<50	0.8	2.0	<0.5	2.0	--	--	--	--	--
06/14/93	354.89	330.59	24.30	--	--	--	--	--	--	--	--	--	--	--
07/25/93	354.89	331.12	23.77	--	--	--	--	--	--	--	--	--	--	--
09/23/93	354.89	334.49	20.40	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/22/93	354.89	333.97	20.92	--	<50	1.0	0.9	0.7	1.0	--	--	--	--	--
03/21/94	354.89	334.70	20.19	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/29/94	354.89	--	--	--	<50	0.9	1.5	<0.5	2.0	--	--	--	--	--
07/06/94	354.89	333.84	21.05	--	<50	<0.5	<0.5	<0.5	0.8	--	--	--	--	--
09/22/94	354.89	333.05	21.84	--	--	--	--	--	--	--	--	--	--	--
10/14/94	354.89	333.05	21.84	--	9600	1600	180	260	840	--	--	--	--	--
12/08/94	354.89	334.18	20.71	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/06/95	354.89	336.78	18.11	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/08/95	354.89	337.10	17.79	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/13/95	354.89	335.09	19.80	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/16/95	354.89	334.43	20.46	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/28/96	354.89	339.47	15.42	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/27/96	354.89	335.81	19.08	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
09/30/96	360.58	340.28	20.30	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/30/96	360.58	341.55	19.03	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
03/11/97	360.58	342.17	18.41	--	<50	<0.5	<0.5	<0.5	0.6	<5.0	--	--	--	--
06/10/97	360.58	340.67	19.91	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
10/01/97	360.58	339.87	20.71	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/17/97	360.58	--	--	Discontinued	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
					--	--	--	--	--	--	--	--	--	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>MW-9</b>														
07/06/94	361.23	336.08	25.15	*										
08/26/94	361.23	--	--	--	--	--	--	--	--	--	--	--	--	--
09/22/94	361.23	335.49	25.74	--	12,000	1700	240	410	1400	--	--	--	--	--
12/08/94	361.23	336.39	24.84	--	10,000	1900	290	320	1200	--	--	--	--	--
03/06/95	361.23	339.40	21.83	--	18,000	2400	780	450	4600	--	--	--	--	--
06/08/95	361.23	339.94	21.29	--	6100	1400	260	420	1500	--	--	--	--	--
09/13/95	361.23	337.85	23.65	--	14,000	2100	220	540	1700	--	--	--	--	--
12/16/95	361.23	336.91	24.32	--	11,000	1900	120	490	1400	--	--	--	--	--
03/28/96	361.23	340.78	20.45	--	16,000	1900	<0.5	680	1200	<2.5	--	--	--	--
06/27/96	361.23	338.39	22.84	--	960	120	5.9	33	70	--	--	--	--	--
09/30/96	361.59	337.47	24.12	--	10,000	1200	46	340	1000	18	--	--	--	--
12/30/96	361.59	338.95	22.64	--	15,000	1300	36	390	950	66	--	--	--	--
03/11/97	361.59	339.50	22.09	--	12,000	1200	54	470	1300	100	--	--	--	--
06/10/97	361.59	337.81	23.78	--	13,000	850	37	310	930	100	--	--	--	--
10/01/97	361.59	338.06	23.53	--	9000	800	7.7	220	360	63	--	--	--	--
12/17/97	361.59	--	--	--	7000	770	13	270	540	86	--	--	--	--
03/29/98	361.59	341.11	20.48	--	--	--	--	--	--	99	--	--	--	--
09/12/98	361.59	338.86	22.73	--	4900	400	850	160	720	--	--	--	--	--
03/26/99	361.59	339.34	22.25	--	7400	900	6.6	150	440	170	--	--	--	--
					3490	441	10.7	121	135	68	--	--	--	--
										33.6	--	--	--	--

\*Monitoring well surveyed by Ron Miller, PE #15816, on July 5, 1994.

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>MW-10</b>														
06/27/96	358.02	--	20.74	--										
09/30/96	358.02	335.99	22.03	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
12/30/96	358.02	337.46	20.56	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
03/11/97	358.02	338.09	19.93	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
06/10/97	358.02	336.37	21.65	--	<50	<0.5	<0.5	<0.5	<0.5	7.0	--	--	--	--
10/01/97	358.02	335.50	22.52	--	<50	<0.5	<0.5	<0.5	<0.5	5.3	--	--	--	--
12/17/97	358.02	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
03/29/98	358.02	340.55	17.47	--	--	--	--	--	--	--	--	--	--	--
09/12/98	358.02	337.39	20.63	--	<50	<0.5	<0.5	<0.5	<0.5	4.3	--	--	--	--
03/26/99	358.02	337.98	20.04	--	<50	<0.5	<0.5	<0.5	<0.5	3.8	--	--	--	--
					<50	<0.5	<0.5	<0.5	<0.5	4.15	--	--	--	--

## Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet.

Analytical values are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth to Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	Total Oil & Grease	1,2-DCA	EDB	Other HVOCs
<b>BAILER BLANK</b>														
05/31/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/21/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/20/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/19/91	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/19/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/19/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
09/22/92	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/21/92	--	--	--	--	<50	<0.5	<0.5	<0.5	0.8	--	--	--	--	--
03/10/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/22/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
07/25/93	--	--	--	--	<50	<0.5	<0.5	<0.5	0.6	--	--	--	--	--
09/23/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
12/22/93	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
03/21/94	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
					<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--

NOTES: Blaine Tech Services, Inc. began routine monitoring of the ground water wells at this site March 26, 1999. Earlier field data and analytical results were drawn from the September 12, 1998 Gettler-Ryan, Inc. report. Groundwater elevation data and laboratory analytical results prior to March 6, 1995, were compiled from the Quarterly Groundwater Monitoring Reports prepared for Chevron by Sierra Environmental Services. Top of casing elevations for monitoring wells MW-1 through MW-7 were surveyed by Ron Miller, Professional Engineer #15816 on June 26, 1991. Top of casing elevations for monitoring wells MW-1 through MW-8 were surveyed by Kier & Wright of Pleasanton, California on December 12, 1991. Survey data received by SES on April 30, 1992. Wells MW-4, MW-8, MW-9, and MW-10 surveyed by Virgil Chavez Land Surveying on 10/15/96, elevations based on previous TOC data.

**ABBREVIATIONS:**

1,2-DCA = 1,2-Dichloroethane  
 EDB = Ethylene dibromide  
 HVOCs = Halogenated Volatile Organic Compounds  
 MTBE = Methyl tertiary-butyl ether  
 TPH = Total Petroleum Hydrocarbons

# **Analytical Appendix**



Sequoia  
Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite B  
1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834  
Petaluma, CA 94954

(650) 364-9600  
(925) 988-9600  
(916) 921-9600  
(707) 792-1865

FAX (650) 364-9233  
FAX (925) 988-9673  
FAX (916) 921-0100  
FAX (707) 792-0342

April 7, 1999

Fran Thie  
Blaine Technical Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112

RE: Chevron USA, Inc./P903798

Dear Fran Thie

Enclosed are the results of analyses for sample(s) received by the laboratory on March 30, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Scott Forbes  
Project Manager

CA ELAP Certificate Number 2245





**Sequoia  
Analytical**

680 Chesapeake Drive  
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Blaine Technical Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112

Project: Chevron USA, Inc.  
Project Number: 7007 San Ramon Valley, Dublin/990326-H1  
Project Manager: Fran Thie

Sampled: 3/26/99  
Received: 3/30/99  
Reported: 4/7/99

**ANALYTICAL REPORT FOR P903798**

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-2	P903798-01	Water	3/26/99
MW-3	P903798-02	Water	3/26/99
MW-6	P903798-03	Water	3/26/99
MW-9	P903798-04	Water	3/26/99
MW-10	P903798-05	Water	3/26/99
TB	P903798-06	Water	3/26/99





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Project Manager: Fran Thie

Sampled: 3/26/99  
Received: 3/30/99  
Reported: 4/7/99

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M**  
**Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b>MW-2</b>								
Gasoline				<b>P903798-01</b>			<b>Water</b>	
Benzene	9040042	4/2/99	4/2/99		50.0	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		0.500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		2.00	ND	"
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		104	%	
						94.7	"	
<b>MW-3</b>								
Gasoline				<b>P903798-02</b>			<b>Water</b>	
Benzene	9040042	4/2/99	4/2/99		50.0	661	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	34.9	"	
Xylenes (total)	"	"	"		0.500	0.848	"	
Methyl tert-butyl ether	"	"	"		0.500	1.36	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		2.00	5.68	"
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		101	%	
						99.3	"	
<b>MW-6</b>								
Gasoline				<b>P903798-03</b>			<b>Water</b>	
Benzene	9040042	4/2/99	4/2/99		50.0	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		0.500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		2.00	ND	"
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		103	%	
						96.3	"	
<b>MW-9</b>								
Gasoline				<b>P903798-04</b>			<b>Water</b>	
Benzene	9040042	4/2/99	4/2/99		250	3490	ug/l	
Toluene	"	"	"		2.50	441	"	
Ethylbenzene	"	"	"		2.50	10.7	"	
Xylenes (total)	"	"	"		2.50	121	"	
Methyl tert-butyl ether	"	"	"		2.50	135	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		10.0	33.6	"
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		102	%	
						95.0	"	
<b>MW-10</b>								
Gasoline	9040042	4/2/99	4/2/99	<b>P903798-05</b>	50.0	ND	<b>Water</b>	
							ug/l	

Sequoia Analytical - Petaluma

\*Refer to end of report for text of notes and definitions.







Blaine Technical Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112

Project: Chevron USA, Inc.  
Project Number: 7007 San Ramon Valley, Dublin/990326-H1  
Project Manager: Fran Thie

Sampled: 3/26/99  
Received: 3/30/99  
Reported: 4/7/99

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M  
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<b><u>MW-10 (continued)</u></b>				<b><u>P903798-05</u></b>			<b><u>Water</u></b>	
Benzene	9040042	4/2/99	4/2/99		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	4.15	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		102	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		95.7	"	
<b><u>TB</u></b>				<b><u>P903798-06</u></b>			<b><u>Water</u></b>	
Gasoline	9040039	4/2/99	4/2/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		91.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		101	"	





Blaine Technical Services, Inc.  
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Project: Chevron USA, Inc.  
Project Number: 7007 San Ramon Valley, Dublin/990326-H1  
Project Manager: Fran Thie

Sampled: 3/26/99  
Received: 3/30/99  
Reported: 4/7/99

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control**  
**Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Batch: 9040039</b>		<b>Date Prepared: 4/2/99</b>			<b>Extraction Method: EPA 5030 waters</b>					
<b>Blank</b>		<b>9040039-BLK1</b>								
Gasoline	4/2/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.00				
Surrogate: a,a,a-Trifluorotoluene	"	300		275	"	65.0-135	91.7			
Surrogate: 4-Bromofluorobenzene	"	300		297	"	65.0-135	99.0			
<b>LCS</b>		<b>9040039-BS2</b>								
Gasoline	4/2/99	1000		1120	ug/l	65.0-135	112			
Surrogate: 4-Bromofluorobenzene	"	300		301	"	65.0-135	100			
<b>LCS</b>		<b>9040039-BS3</b>								
Benzene	4/2/99	100		101	ug/l	65.0-135	101			
Toluene	"	100		99.4	"	65.0-135	99.4			
Ethylbenzene	"	100		91.6	"	65.0-135	91.6			
Xylenes (total)	"	300		288	"	65.0-135	96.0			
Surrogate: a,a,a-Trifluorotoluene	"	300		277	"	65.0-135	92.3			
<b>Matrix Spike</b>		<b>9040039-MS1</b>		<b>P903780-01</b>						
Gasoline	4/2/99	1000	194	1250	ug/l	65.0-135	106			
Surrogate: 4-Bromofluorobenzene	"	300		305	"	65.0-135	102			
<b>Matrix Spike</b>		<b>9040039-MS2</b>		<b>P903780-01</b>						
Benzene	4/2/99	100	1.29	96.9	ug/l	65.0-135	95.6			
Toluene	"	100	0.548	98.4	"	65.0-135	97.9			
Ethylbenzene	"	100	3.52	89.0	"	65.0-135	85.5			
Xylenes (total)	"	300	ND	274	"	65.0-135	91.3			
Surrogate: a,a,a-Trifluorotoluene	"	300		280	"	65.0-135	93.3			
<b>Matrix Spike Dup</b>		<b>9040039-MSD1</b>		<b>P903780-01</b>						
Gasoline	4/2/99	1000	194	1230	ug/l	65.0-135	104	20.0	1.90	
Surrogate: 4-Bromofluorobenzene	"	300		324	"	65.0-135	108			
<b>Matrix Spike Dup</b>		<b>9040039-MSD2</b>		<b>P903780-01</b>						
Benzene	4/2/99	100	1.29	102	ug/l	65.0-135	101	20.0	5.49	
Toluene	"	100	0.548	103	"	65.0-135	102	20.0	4.10	
Ethylbenzene	"	100	3.52	93.7	"	65.0-135	90.2	20.0	5.35	
Xylenes (total)	"	300	ND	288	"	65.0-135	96.0	20.0	5.02	





Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron USA, Inc. Project Number: 7007 San Ramon Valley, Dublin/990326-H1 Project Manager: Fran Thie	Sampled: 3/26/99 Received: 3/30/99 Reported: 4/7/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control  
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
<b>Matrix Spike Dup (continued)</b>										
<u>9040039-MSD2</u> <u>P903780-01</u>										
Surrogate: a,a,a-Trifluorotoluene	4/2/99	300		284	ug/l	65.0-135	94.7			
<b>Batch: 9040042</b>										
<b>Blank</b>										
<u>9040042-BLK1</u>										
Gasoline	4/2/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.00				
Surrogate: a,a,a-Trifluorotoluene	"	300		296	"	65.0-135	98.7			
Surrogate: 4-Bromofluorobenzene	"	300		293	"	65.0-135	97.7			
<b>LCS</b>										
<u>9040042-BS1</u>										
Gasoline	4/2/99	1000		1010	ug/l	65.0-135	101			
Surrogate: 4-Bromofluorobenzene	"	300		286	"	65.0-135	95.3			
<b>Matrix Spike</b>										
<u>9040042-MS1</u> <u>P903798-01</u>										
Gasoline	4/2/99	1000	ND	970	ug/l	65.0-135	97.0			
Surrogate: 4-Bromofluorobenzene	"	300		267	"	65.0-135	89.0			
<b>Matrix Spike Dup</b>										
<u>9040042-MSD1</u> <u>P903798-01</u>										
Gasoline	4/2/99	1000	ND	993	ug/l	65.0-135	99.3	20.0	2.34	
Surrogate: 4-Bromofluorobenzene	"	300		276	"	65.0-135	92.0			





Blaine Technical Services, Inc. 1680 Rogers Ave. San Jose, CA 95112	Project: Chevron USA, Inc. Project Number: 7007 San Ramon Valley, Dublin/990326-H1 Project Manager: Fran Thie	Sampled: 3/26/99 Received: 3/30/99 Reported: 4/7/99
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**Notes and Definitions**

#	Note
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- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference





# **Field Data Sheets**



# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>990326-111</u>	Station #: <u>9-5542</u>
Sampler: <u>MH</u>	Date: <u>3/26/99</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>38.70</u>	Depth to Water: <u>23.50</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: \_\_\_\_\_

Sampling Method:

- Bailer
- Disposable Bailer
- Extraction Port
- Other: \_\_\_\_\_

$$\frac{2.4}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{7.2}{\text{Calculated Volume}} \text{ Gals.}$$

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
952	66.8	6.9	1311	3	Turbid
955	67.1	6.8	1321	6	Cleared up
957	67.4	6.8	1319	8	

Did well dewater? Yes  No  Gallons actually evacuated: 8

Sampling Time: 1000 Sampling Date: 3/26

Sample I.D.: MW-2 Laboratory: Sequoia CORE N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

Duplicate I.D.: \_\_\_\_\_ Analyzed for: TPH-G BTEX MTBE TPH-D Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
	Pre-purge:	mV	Post-purge:	mV





## CHEVRON WELL MONITORING DATA SHEET

Project #: <u>990326-41</u>	Station #: <u>9-5542</u>
Sampler: <u>MH</u>	Date: <u>3/26/99</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 4 6 8 <u>    </u>
Total Well Depth: <u>    </u>	Depth to Water: <u>    </u>
Depth to Free Product: <u>    </u>	Thickness of Free Product (feet): <u>    </u>
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
<u>Disposable Bailer</u>	<u>Disposable Bailer</u>
<u>Middleburg</u>	<u>Extraction Port</u>
<u>Electric Submersible</u>	Other: <u>    </u>
<u>Extraction Pump</u>	
Other: <u>    </u>	

<u>    </u>	X	<u>    </u>	=	<u>    </u> Gals.
i Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
					<u>Well found over / destroyed</u>
					<u>Unable to locate w/ metal detector</u>
					<u>No Sample Taken</u>

Did well dewater?	Yes	No	Gallons actually evacuated: <u>    </u>
Sampling Time: <u>    </u>	Sampling Date: <u>3/26</u>		
Sample I.D.: <u>MW-5</u>	Laboratory: <u>Sequoia</u> CORE N. Creek Assoc. Labs		
Analyzed for: <u>TPH-G BTEX MTBE</u> TPH-D Other: <u>    </u>			
Duplicate I.D.: <u>    </u>	Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>    </u>		
D.O. (if req'd):	Pre-purge: <u>    </u> mg/L	Post-purge: <u>    </u> mg/L	
O.R.P. (if req'd):	Pre-purge: <u>    </u> mV	Post-purge: <u>    </u> mV	

# CHEVRON WELL MONITORING DATA SHEET

Project #: <u>990326-H1</u>	Station #: <u>9-5542</u>
Sampler: <u>MH</u>	Date: <u>3/26/99</u>
Well I.D.: <u>MW-10</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>39.70</u>	Depth to Water: <u>20.04</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer  
Disposable Bailer      Disposable Bailer  
Middleburg      Extraction Port  
 Electric Submersible      Other: \_\_\_\_\_  
 Extraction Pump

<u>2.3</u>	x	<u>3</u>	=	<u>6.9</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>933</u>	<u>66.9</u>	<u>6.8</u>	<u>1468</u>	<u>2</u>	<u>Turbid</u>
<u>936</u>	<u>67.3</u>	<u>6.7</u>	<u>1503</u>	<u>4</u>	↓
<u>940</u>	<u>67.2</u>	<u>6.7</u>	<u>1511</u>	<u>7</u>	↓

Did well dewater?    Yes    No    Gallons actually evacuated: 7

Sampling Time: 942    Sampling Date: 3/26

Sample I.D.: MW-10    Laboratory: Sequoia CORE N. Creek Assoc. Labs

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Duplicate I.D.:    Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV