

C A M B R I A

DH

20 356

APR 19 2002

April 15, 2002

Scott Seery  
Alameda County Health Care Service Agency  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577



Re: **First Quarter 2002 Groundwater Monitoring Report**  
BP Oil Site No. 11117  
7210 Bancroft Avenue  
Oakland, California  
Cambria Project No. 852-1546

Dear Mr. Seery:

On behalf of BP Oil Company, Cambria Environmental Technology, Inc. has prepared this *First Quarter 2002 Groundwater Monitoring Report* for the above referenced site. This report summarizes chemical data collected since 1992 including analytical results associated with samples recently collected on February 28, 2002.

Water level and analytical results for this monitoring event are summarized in Figure 1 and on Table 1 of Appendix A. Based on the contoured elevations, water generally flowed toward the northeast. During this monitoring event, only well MW-2 reported more than 10,000 micrograms per liter ( $\mu\text{g/L}$ ) of benzene, with a concentration of 13,900  $\mu\text{g/L}$ . Wells MW-2, MW-4 and MW-9 reported more than 10,000  $\mu\text{g/L}$  of methyl tert butyl ether (MTBE), with the maximum concentration of 35,900  $\mu\text{g/L}$  in well MW-4.

Benzene and MTBE concentration trends and water level trends in well MW-4 are in Figure 2. Analytical results below method reporting limits are plotted at one half the detection limit (open symbol).

Oakland, CA  
San Ramon, CA  
Sonoma, CA

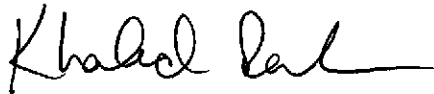
**Cambria  
Environmental  
Technology, Inc.**

1144 65th Street  
Suite 8  
Oakland, CA 94608  
Tel (510) 420-0700  
Fax (510) 420-9170

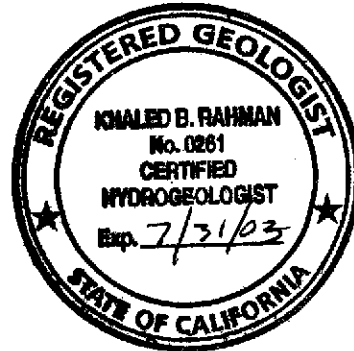
# C A M B R I A

We appreciate the opportunity to work with you on this project. If you have any questions or comments, please don't hesitate to call me at (510) 450-1985.

Sincerely,  
**Cambria Environmental Technology, Inc.**



Khaled Rahman, R.G., C.H.G.  
Associate Geologist



### Attachments

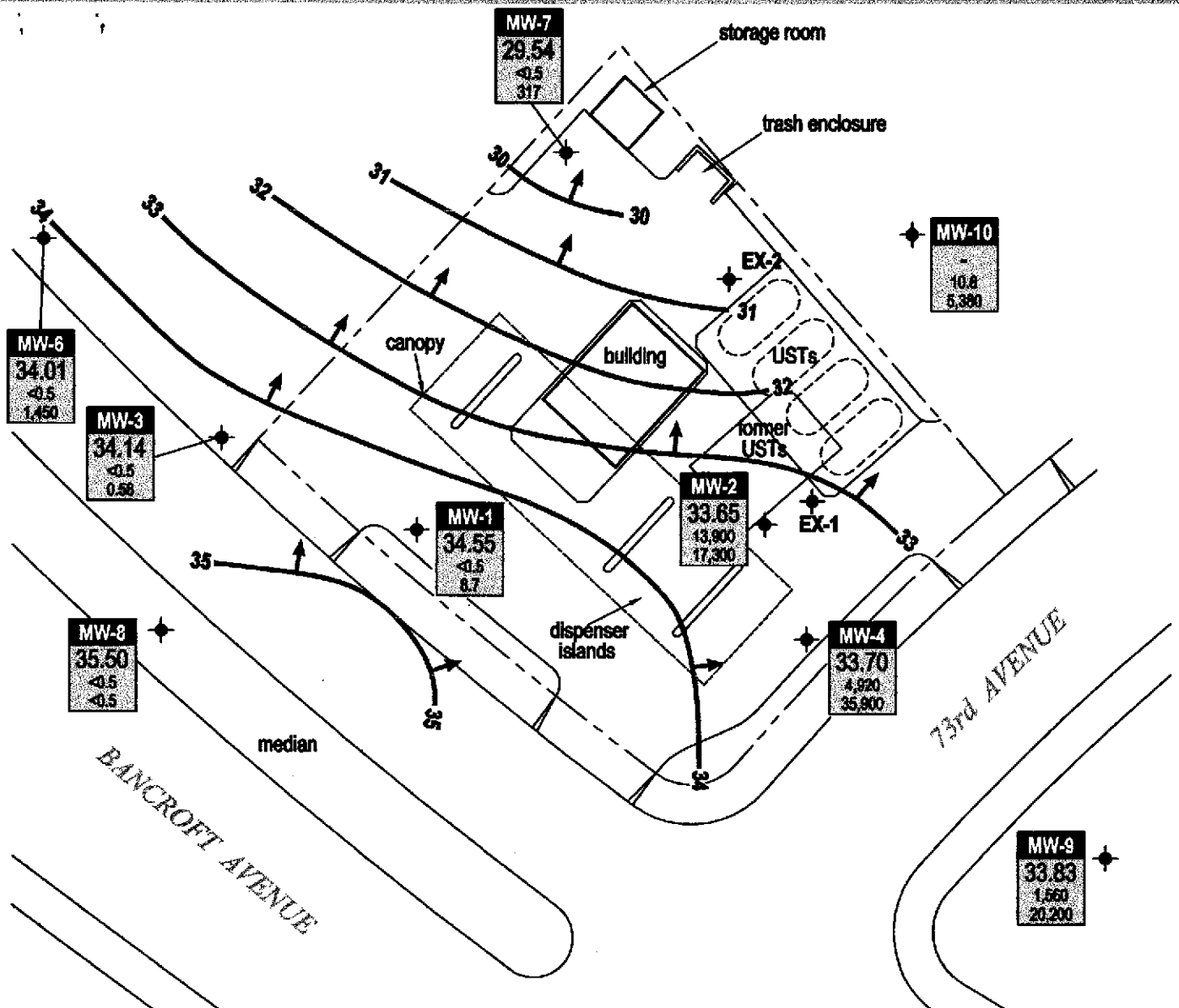
- Figure 1 – Groundwater Elevation Contour Map
- Figure 2 – Concentration and Water Level Trends – Well MW-4
- Appendix A – Blaine Tech Services, Inc., 1<sup>st</sup> Quarter 2002 Monitoring at 11117

cc: Scott Hooton, BP Oil Company, Environmental Resources Management, 295 SW 41<sup>st</sup> Street, Building 13, Suite N, Renton, Washington 98055-4931 (1 original)  
David Camille, Tosco Marketing Company, 2000 Crow Canyon Place, Suite 400, San Ramon, California 94583 (1 copy)

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**FIGURES**



**EXPLANATION**

- MW-1 + Monitoring well location
- Groundwater flow direction. Approximate horizontal hydraulic gradient = 0.04
- XX.XX Groundwater elevation contour, in feet above mean sea level (msl), dashed where inferred
- NM Not Measured (top of casing not surveyed)

Well	Well designation
ELEV	Groundwater elevation (msl)
Benzene MTBE	Benzene and MTBE concentrations are in parts per micrograms per liter (µg/L)

Chevron-branded site

Scale (ft)

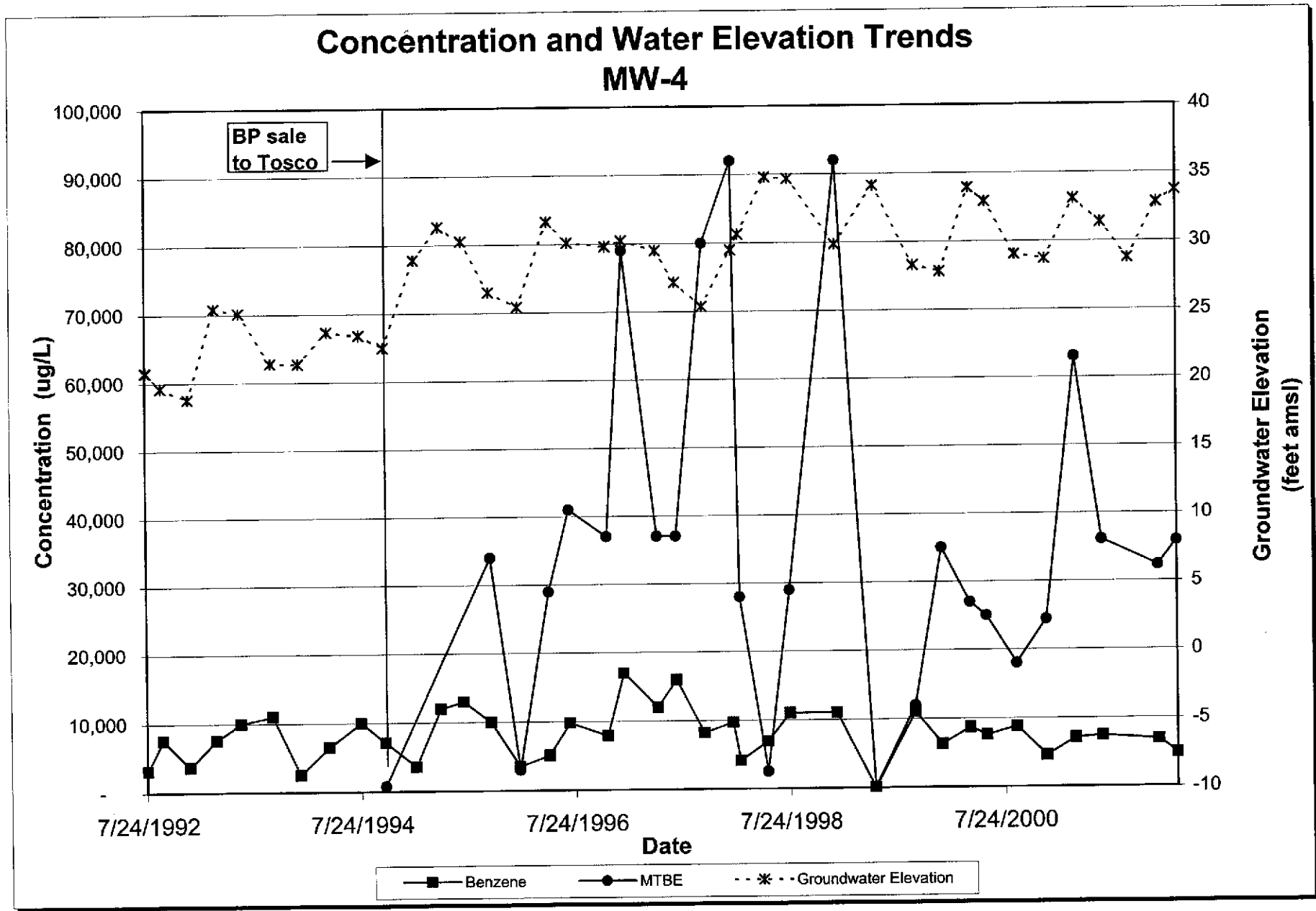
FIGURE  
**1**

**BP Oil Site No. 11117**  
7210 Bancroft Avenue  
Oakland, California



**Groundwater Elevation  
Contour Map**  
February 28, 2002

11117-1117-1000-DWG



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## APPENDIX A

Blaine Tech Services, Inc.  
1<sup>st</sup> Quarter 2002 Monitoring

**BLAINE**  
TECH SERVICES INC.



1680 ROGERS AVENUE  
SAN JOSE, CA 95112-1105  
(408) 573-7771 FAX  
(408) 573-0555 PHONE  
CONTRACTOR'S LICENSE #746684  
www.blainetech.com

March 15, 2002

Scott Hooton  
BP Oil Company  
295 SW 41st Street, Bldg. 13, Suite N  
Renton, WA 98055-4931

### **1st Quarter 2002 Monitoring at 11117**

First Quarter 2002 Groundwater Monitoring  
BP Service Station Number 11117  
7210 Bancroft Avenue  
Oakland, CA

Monitoring Performed on February 28, 2002

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### **Groundwater Sampling Report 020228-SO-2**

This report covers the routine monitoring of groundwater wells at this BP 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, the appropriate calculated purge volume, 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 Seaport Petroleum Corporation for disposal.

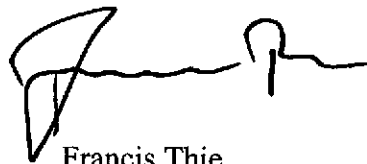
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**.

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,

A handwritten signature in black ink, appearing to read 'Francis Thie', with a stylized flourish at the end.

Francis Thie  
Vice President

FPT/mb

Cc: Khaled B. Rahman  
Cambria Environmental Technology, Inc.  
6262 Hollis Street  
Emeryville, CA 94608

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



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

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-1	01/05/92	49.80	33.16	--	16.64	57000	50000	2400	1000	1100	3100	--	ND	--	--
MW-1	01/10/92	49.80	33.16	--	16.64	--	--	--	--	--	--	--	--	--	--
MW-1	06/05/92	49.80	29.01	--	20.79	31000	--	2800	2100	800	2300	--	--	--	--
MW-1	07/24/92	49.80	29.45	--	20.35	--	--	--	--	--	--	--	--	--	--
MW-1	07/27/92	49.80	29.45	--	20.35	--	--	--	--	--	--	--	--	--	--
MW-1	09/15/92	49.80	30.53	--	19.27	40000	1200	(c) 3400	3000	1300	3400	--	--	--	ANA
QC-1 (d)	09/15/92	--	--	--	--	36000	--	3800	3400	1400	3800	--	--	--	ANA
MW-1	12/15/92	49.80	31.26	--	18.54	27000	1100	(c) 1700	580	700	1900	--	--	--	ANA
QC-1 (d)	12/15/92	--	--	--	--	22000	--	1500	440	510	1300	--	--	--	ANA
MW-1	03/15/93	49.80	24.80	--	25.00	17000	580	1700	1200	590	1800	--	(l)	--	PACE
QC-1 (d)	03/15/93	--	--	--	--	15000	--	1100	860	440	1400	--	(l)	--	PACE
MW-1	06/07/93	49.80	25.01	--	24.79	750	100	0.8	0.8	ND<0.5	ND<0.5	--	(l)	--	PACE
QC-1 (d)	06/07/93	--	--	--	--	720	--	0.7	0.7	ND<0.5	ND<0.5	--	(l)	--	PACE
MW-1	09/23/93	49.80	28.70	--	21.10	40000	770	4000	500	920	3000	6619	(e)(l)	--	PACE
MW-1	12/27/93	49.80	28.66	--	21.14	27000	--	2000	400	940	2600	13558	(e)(l)	--	PACE
QC-1 (d)	12/27/93	--	--	--	--	21000	--	1700	380	830	2400	9219	(e)(l)	--	PACE
MW-1	04/05/94	49.80	26.37	--	23.43	27000	--	3400	930	950	2900	8595	(e)(l)	--	PACE
QC-1 (d)	04/05/94	--	--	--	--	29000	--	3700	1000	1000	3100	9672	(e)(l)	--	PACE
MW-1	07/22/94	49.80	26.54	--	23.26	1700	--	220	2.3	2.0	3.4	262	(e)(l)	--	PACE
MW-1	10/13/94	49.80	27.46	--	22.34	1200	--	250	21	ND<0.5	3.2	321	(e)(l)	--	PACE
MW-1	01/25/95	49.80	20.96	--	28.84	1000	--	420	8	13	4	--	--	--	ATI
MW-1	04/19/95	49.80	19.59	--	30.21	5200	--	420	51	230	340	--	--	6.0	ATI
MW-1	07/05/95	49.80	19.61	--	30.19	320	--	4.2	ND<0.50	ND<0.50	ND<1.0	--	--	4.6	ATI
MW-1	10/05/95	49.80	24.40	--	25.40	5800	--	1000	40	31	180	7800	--	2.3	ATI
MW-1	01/12/96	49.80	25.44	--	24.36	370	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	--	3.7	ATI
MW-1	04/22/96	49.80	18.02	--	31.78	ND<50	--	ND<0.5	ND<1	ND<1	ND<1	ND<10	--	3.9	SPL
MW-1	07/02/96	49.80	19.72	--	30.08	--	--	--	--	--	--	--	--	--	--
MW-1	07/03/96	49.80	--	--	--	ND<250	--	ND<2.5	ND<5	ND<5	ND<5	ND<50	--	3.6	SPL
MW-1	11/08/96	49.80	19.98	--	29.82	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	4.3	SPL
MW-1	01/03/97	49.80	19.49	--	30.31	ND<50	--	ND<0.5	14	ND<1.0	ND<1.0	ND<10	--	4.6	SPL
MW-1	04/28/97	49.80	20.20	--	29.60	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	3.9	SPL
MW-1	07/01/97	49.80	22.53	--	27.27	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	3.9	SPL
MW-1	10/02/97	49.80	24.27	--	25.53	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	4.6	SPL
MW-1	01/09/98	49.80	21.07	--	28.73	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	4.2	SPL
MW-1	05/06/98	49.80	14.94	--	34.86	60	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	3.8	SPL
MW-1	07/21/98	49.80	15.11	--	34.69	70	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	3.8	SPL
MW-1	12/30/98	49.80	19.95	--	29.85	--	--	--	--	--	--	--	--	--	--

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-1	02/02/99	49.80	19.12	---	30.68	420	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	390	---	---	SPL
MW-1	05/10/99	49.80	15.51	---	34.29	---	---	---	---	---	---	---	---	---	---
MW-1	09/23/99	49.80	21.65	---	28.15	440	---	49	ND<1.0	ND<1.0	ND<1.0	910	---	---	SPL
MW-1	12/23/99	49.80	22.32	---	27.48	---	---	---	---	---	---	---	---	---	---
MW-1	03/27/00	49.80	15.72	---	34.08	2500	---	230	3.0	83	36	4400	---	---	PACE
MW-1	05/22/00	49.80	16.92	---	32.88	---	---	---	---	---	---	---	---	---	---
MW-1	08/31/00	49.80	20.12	---	29.68	1700	---	18	5.5	7.9	5.0	510	---	---	PACE
MW-1	12/11/00	49.80	20.72	---	29.08	---	---	---	---	---	---	---	---	---	---
MW-1	03/20/01	49.80	15.91	---	33.89	880	---	38.2	ND<0.5	24.1	ND<1.5	391	---	---	PACE
MW-1	06/19/01	49.80	18.38	---	31.42	---	---	---	---	---	---	---	---	---	---
MW-1	09/20/01	49.80	21.23	---	28.57	3200	---	400	19.8	42	32.5	2510	---	---	PACE
MW-1	12/27/01	49.80	16.72	---	33.08	750	---	70.1	0.536	4.74	3.76	649	---	---	PACE
MW-1	02/28/02	49.80	15.25	---	34.55	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	8.7	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-2	01/05/92	51.07	DRY	---	DRY	---	---	---	---	---	---	---	---	---	---
MW-2	01/10/92	51.07	DRY	---	DRY	---	---	---	---	---	---	---	---	---	---
MW-2	06/05/92	51.07	30.05	---	21.02	11000	---	2000	180	490	1900	---	---	---	---
MW-2	07/24/92	51.07	30.72	---	20.35	---	---	---	---	---	---	---	---	---	---
MW-2	07/27/92	51.07	30.52	---	20.55	---	---	---	---	---	---	---	---	---	---
MW-2	09/15/92	51.07	31.56	---	19.51	75000	3200 (c)	2000	6500	2300	13000	---	---	---	ANA
MW-2	12/15/92	51.07	32.40	---	18.67	34000	1600 (c)	6200	8900	2000	7900	---	---	---	ANA
MW-2	03/15/93	51.07	26.14	---	24.93	150000	8400	12000	18000	3200	22000	82000	(e)	---	PACE
MW-2 (f)	06/07/93	51.07	26.38	SHEEN	24.69	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	09/23/93	51.07	31.43	1.92	21.08	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	12/27/93	51.07	34.07	1.07	17.80	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	04/05/94	51.07	30.44	3.30	23.11	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	07/22/94	51.07	28.51	0.80	23.16	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	10/13/94	51.07	29.33	0.70	22.27	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	01/25/95	51.07	25.55	4.25	28.71	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	04/19/95	51.07	19.78	0.12	31.38	---	---	---	---	---	---	---	---	---	---
MW-2	07/05/95	51.07	20.88	0.09	30.26	140000	---	14000	30000	3500	26000	---	---	---	ATI
MW-2 (f)	10/05/95	51.07	24.68	0.10	26.47	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	01/12/96	51.07	25.72	0.06	25.40	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	04/22/96	51.07	19.33	0.08	31.80	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	07/02/96	51.07	20.01	0.04	31.09	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	11/08/96	51.07	20.28	0.01	30.80	---	---	---	---	---	---	---	---	---	---
MW-2 (f)	01/03/97	51.07	19.87	0.02	31.22	---	---	---	---	---	---	---	---	---	---
MW-2	04/28/97	51.07	20.59	0.01	30.49	560000	---	1200	1300	290	2310	6100	---	3.9	SPL
MW-2	07/01/97	51.07	22.90	0.01	28.18	24000	---	15000	16000	4900	24400	63000	---	3.7	SPL
QC-1 (d)	07/01/97	---	---	---	---	150000	---	14000	13000	1800	14200	57000	---	---	SPL
MW-2	10/02/97	51.07	24.65	0.02	26.44	---	---	---	---	---	---	---	---	---	---
MW-2	10/03/97	51.07	---	---	---	250000	---	32000	39000	6000	42000	160000	---	4.5	SPL
MW-2	01/09/98	51.07	21.22	0.01	29.86	420000	---	23000	29000	5800	43000	75000	---	4.0	SPL
QC-1 (d)	01/09/98	---	---	---	---	300000	---	20000	25000	5200	37000	84000	---	---	SPL
MW-2	05/06/98	51.07	15.10	0.01	35.98	180000	---	25000	26000	3400	22900	35000	---	3.7	SPL
MW-2	07/21/98	51.07	15.31	0.01	35.77	270000	---	21000	20000	2700	18800	34000	---	3.8	SPL
MW-2	12/30/98	51.07	21.10	0.10	30.05	300000	---	22000	24000	4200	26000	89000/95000	(j)	---	SPL
MW-2	02/02/98	51.07	20.11	---	30.96	410000	---	27000	43000	6700	50000	20000	---	---	SPL
MW-2	05/10/99	51.07	16.68	---	34.39	220000	---	20000	20000	2800	20000	100000	---	---	SPL
MW-2	09/23/99	51.07	22.50	---	28.57	160000	---	21000	24000	2900	20000	44000	---	---	SPL
MW-2 (k)	12/23/99	51.07	22.64	---	28.43	170000	---	25000	41000	3100	24000	40000	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-2	03/27/00	51.07	16.88	---	34.19	140000	---	15000	25000	3400	21000	19000	---	---	PACE
MW-2	05/22/00	51.07	17.75	---	33.32	150000	---	18000	31000	3500	22000	26000	---	---	PACE
MW-2	08/31/00	51.07	21.97	---	29.10	200000	---	16000	26000	2500	16000	38000	---	---	PACE
MW-2	12/11/00	51.07	22.05	---	29.02	130000	---	18600	30000	3250	20600	21700	---	---	PACE
MW-2	03/20/01	51.07	17.75	---	33.32	140000	---	15900	24800	3700	22100	12900	---	---	PACE
MW-2	06/19/01	51.07	20.15	---	30.92	130000	---	15100	19500	3300	21400	20300	---	---	PACE
MW-2	09/20/01	51.07	22.14	---	28.93	110000	---	12400	12600	2230	13000	39500	---	---	PACE
MW-2	12/27/01	51.07	18.17	---	32.90	150000	---	17500	26000	3050	19500	27500	---	---	PACE
MW-2	02/28/02	51.07	17.42	---	33.65	120000	---	13900	18800	3030	19600	17300	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-3	01/05/92	49.95	33.69	---	16.26	7400	4000	790	23	210	40	---	ND	---	---
MW-3	01/10/92	49.95	33.74	---	16.21	---	---	---	---	---	---	---	---	---	---
MW-3	06/05/92	49.95	29.65	---	20.30	2000	---	130	5.3	93	20	---	---	---	---
MW-3	07/24/92	49.95	30.14	---	19.81	---	---	---	---	---	---	---	---	---	---
MW-3	07/27/92	49.95	30.14	---	19.81	---	---	---	---	---	---	---	---	---	---
MW-3	09/15/92	49.95	31.07	---	18.88	450	ND<50	55	3.1	34	7.1	---	---	---	ANA
MW-3	12/15/92	49.95	31.93	---	18.02	12000	710 (c)	940	ND<50	310	120	---	---	---	ANA
MW-3	03/15/93	49.95	25.71	---	24.24	ND<50	60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(l)	---	PACE
MW-3	06/07/93	49.95	25.80	---	24.15	150	ND<50	3.6	ND<0.5	0.9	1.3	---	(l)	---	PACE
MW-3	09/23/93	49.95	29.18	---	20.77	---	---	---	---	---	---	---	---	---	---
MW-3	09/24/93	49.95	---	---	---	160	ND<50	8.4	ND<0.5	3.7	1.3	15.3	(l)	---	PACE
MW-3	12/27/93	49.95	29.25	---	20.70	9400	---	1100	48	530	120	2871	(e)(l)	---	PACE
MW-3	04/05/94	49.95	26.84	---	23.11	7000	---	860	19	330	52	10414	(l)	2.0	PACE
MW-3	07/22/94	49.95	26.90	---	23.11	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	2.1	PACE
MW-3	10/13/94	49.95	27.83	---	22.12	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(l)	2.6	PACE
MW-3	01/25/95	49.95	21.65	---	28.30	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	ATI
MW-3	04/19/95	49.95	19.33	---	30.62	2400	---	170	8.0	130	27	---	---	5.0	ATI
MW-3	07/05/95	49.95	20.27	---	29.68	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.4	ATI
MW-3	10/05/95	49.95	23.73	---	26.22	2300	---	210	3.1	10	5.1	2400	---	4.2	ATI
MW-3	01/12/96	49.95	24.84	---	25.11	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	4.1	ATI
MW-3	04/22/96	49.95	18.60	---	31.35	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.4	SPL
MW-3	07/02/96	49.95	18.88	---	31.07	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.2	SPL
MW-3	11/08/96	49.95	19.14	---	30.81	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.4	SPL
MW-3	01/03/97	49.95	18.72	---	31.23	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.6	SPL
MW-3	04/28/97	49.95	19.38	---	30.57	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	SPL
MW-3	07/01/97	49.95	21.65	---	28.30	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	SPL
MW-3	10/02/97	49.95	23.45	---	26.50	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.5	SPL
MW-3	01/09/98	49.95	20.10	---	29.85	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.1	SPL
MW-3	05/06/98	49.95	15.57	---	34.38	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	SPL
MW-3	07/21/98	49.95	15.88	---	34.07	51	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	SPL
QC-1 (d)	07/21/98	---	---	---	---	60	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	SPL
MW-3	12/30/98	49.95	20.30	---	29.65	---	---	---	---	---	---	---	---	---	SPL
MW-3	02/02/99	49.95	19.75	---	30.20	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	SPL
MW-3	05/10/99	49.95	16.17	---	33.78	---	---	---	---	---	---	---	---	---	---
MW-3	09/23/99	49.95	22.05	---	27.90	---	---	---	---	---	---	---	---	---	---
MW-3	12/23/99	49.95	22.55	---	27.40	---	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-3	03/27/00	49.95	16.40	---	33.55	350	---	22	ND<0.5	ND<0.5	ND<0.5	580	---	---	PACE
MW-3	05/22/00	49.95	9.49*	---	40.46	---	---	---	---	---	---	---	---	---	---
MW-3	08/31/00	49.95	13.02*	---	36.93	---	---	---	---	---	---	---	---	---	---
MW-3	12/11/00	49.95	13.30*	---	36.65	---	---	---	---	---	---	---	---	---	---
MW-3	03/20/01	49.95	16.49	---	33.46	1000	---	66.4	0.597	6.96	ND<1.5	398	---	---	PACE
MW-3	06/19/01	49.95	18.82	---	31.13	---	---	---	---	---	---	---	---	---	---
MW-3	09/20/01	49.95	21.59	---	28.36	230	---	ND<0.5	0.593	ND<0.5	ND<1.5	289	---	---	PACE
MW-3	12/27/01	49.95	17.37	---	32.58	---	---	---	---	---	---	---	---	---	---
MW-3	02/28/02	49.95	15.81	---	34.14	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	0.58	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-4	07/24/92	50.76	30.02	---	20.74	42000	---	3200	3600	1400	4100	---	---	---	---
MW-4	07/27/92	50.76	30.02	---	20.74	---	---	---	---	---	---	---	---	---	---
MW-4	09/15/92	50.76	31.14	---	19.62	55000	1700 (c)	7600	13000	2800	9500	---	---	---	ANA
MW-4	12/15/92	50.76	31.98	---	18.78	36000	2200 (c)	3700	4700	1200	4000	---	---	---	ANA
MW-4	03/15/93	50.76	25.34	---	25.42	69000	1200	7600	15000	2500	11000	---	(l)	---	PACE
MW-4	06/07/93	50.76	25.67	---	25.09	73000	2500	10000	19000	3400	14000	---	(l)	---	PACE
MW-4	09/23/93	50.76	29.37	---	21.39	---	---	---	---	---	---	---	---	---	---
MW-4	09/24/93	50.76	---	---	---	68000	5700	11000	2100	8600	990	390	(l)	---	PACE
QC-1 (d)	09/24/93	---	---	---	---	59000	---	5300	10000	2200	8400	309	(l)	---	PACE
MW-4	12/27/93	50.76	29.40	---	21.36	32000	---	2500	4400	1300	4400	387	(l)	---	PACE
MW-4	04/05/94	50.76	27.09	---	23.67	64000	---	6500	14000	1900	9600	413	(l)	1.4	PACE
MW-4	07/22/94	50.76	27.33	---	23.43	85000	---	10000	20000	3200	13000	796	(l)	0.8	PACE
QC-1 (d)	07/22/94	---	---	---	---	85000	---	11000	21000	3300	14000	435	(l)	---	PACE
MW-4	10/13/94	50.76	28.25	---	22.51	51000	---	7100	13000	2100	8900	506	(e)(l)	2.9	PACE
QC-1 (d)	10/13/94	---	---	---	---	51000	---	7400	13000	2100	9100	773	(l)	---	PACE
MW-4	01/25/95	50.76	21.85	---	28.91	26000	---	3600	9600	1200	6400	---	---	---	ATI
QC-1 (d)	01/25/95	---	---	---	---	28000	---	4200	12000	1500	7800	---	---	---	ATI
MW-4	04/19/95	50.76	19.44	---	31.32	89000	---	12000	24000	3500	18000	---	---	5.1	ATI
QC-1 (d)	04/19/95	---	---	---	---	100000	---	12000	26000	3800	21000	---	---	---	ATI
MW-4	07/05/95	50.76	20.52	---	30.24	130000	---	13000	29000	3300	25000	---	---	4.3	ATI
MW-4	10/05/95	50.76	24.23	---	26.53	110000	---	10000	23000	3600	17000	34000	---	2.1	ATI
MW-4	01/12/96	50.76	25.34	---	25.42	46000	---	3500	8300	1100	8000	3000	---	3.3	ATI
QC-1 (d)	01/12/96	---	---	---	---	40000	---	3500	9000	1200	8700	4300	---	---	ATI
MW-4	04/22/96	50.76	19.13	---	31.63	40000	---	5100	9600	980	11800	29000	---	3.2	SPL
QC-1 (d)	04/22/96	---	---	---	---	61000	---	8300	16000	1600	15200	36000	---	---	SPL
MW-4	07/02/96	50.76	20.67	---	30.09	74000	---	9800	21000	2100	16600	41000	---	3.4	SPL
QC-1 (d)	07/02/96	---	---	---	---	78000	---	9800	21000	1900	15300	42000	---	---	SPL
MW-4	11/08/96	50.76	20.95	---	29.81	100000	---	7900	16000	2500	13700	37000	---	3.7	SPL
QC-1 (d)	11/08/96	---	---	---	---	110000	---	9100	20000	3000	15400	39000	---	---	SPL
MW-4	01/03/97	50.76	20.54	---	30.22	99000	---	17000	30000	4300	22700	79000	---	4.2	SPL
QC-1 (d)	01/03/97	---	---	---	---	66000	---	12000	19000	2900	15000	69000	---	---	SPL
MW-4	04/28/97	50.76	21.28	---	29.48	130000	---	12000	28000	3800	21000	37000	---	3.9	SPL
QC-1 (d)	04/28/97	---	---	---	---	110000	---	11000	26000	3200	18200	34000	---	---	SPL
MW-4	07/01/97	50.76	23.61	---	27.15	110000	---	16000	25000	4900	24400	37000	---	3.6	SPL
MW-4	10/02/97	50.76	25.39	---	25.37	---	---	---	---	---	---	---	---	---	---
MW-4	10/03/97	50.76	---	---	---	66000	---	8200	8600	2700	13400	80000	---	4.4	SPL
QC-1 (d)	10/03/97	---	---	---	---	71000	---	8600	8700	2900	13500	84000	---	---	SPL



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-4	01/09/98	50.76	21.25	---	29.51	100000	---	9700	3200	1500	4700	92000	---	3.8	SPL
MW-4	05/06/98	50.76	15.96	---	34.80	430000	---	6900	31000	11000	56000	ND<5000	---	3.9	SPL
QC-1 (d)	05/06/98	---	---	---	---	440000	---	8000	39000	14000	70000	ND<5000	---	---	SPL
MW-4	07/21/98	50.76	16.1	---	34.66	250000	---	11000	26000	5500	26900	29000	---	3.7	SPL
QC-1 (d)	07/21/98	---	---	---	---	210000	---	11000	27000	5600	26800	29000	---	---	SPL
MW-4	12/30/98	50.76	20.91	---	29.85	370000	---	11000	22000	8500	40000	90000/92000 (j)	---	---	SPL
MW-4	02/02/99	50.76	20.13	---	30.63	190000	---	4100	19000	4800	32000	28000	---	---	SPL
MW-4	05/10/99	50.76	16.63	---	34.13	2700	---	23	7.1	8.1	25	120	---	---	SPL
MW-4	09/23/99	50.76	22.48	---	28.28	180000	---	11000	29000	7000	38000	12000	---	---	SPL
MW-4 (k)	12/23/99	50.76	22.94	---	27.82	66000	---	6300	5200	2200	7800	35000	---	---	PACE
MW-4	03/27/00	50.76	16.84	---	33.92	120000	---	8700	12000	3800	16000	27000	---	---	PACE
MW-4	05/22/00	50.76	17.85	---	32.91	110000	---	7600	16000	4400	20000	25000	---	---	PACE
MW-4	08/31/00	50.76	21.71	---	29.05	110000	---	8800	7600	3400	14000	18000	---	---	PACE
MW-4	12/11/00	50.76	22.05	---	28.71	70000	---	4580	3480	2550	9220	24400	---	---	PACE
MW-4	03/20/01	50.76	17.68	---	33.08	100000	---	7100	4530	2540	9370	63100	---	---	PACE
MW-4	06/19/01	50.76	19.40	---	31.36	180000	---	7430	14600	5400	25300	36100	---	---	PACE
MW-4 (f)	09/20/01	50.76	22.01	0.03 (m)	28.75	---	---	---	---	---	---	---	---	---	---
MW-4	12/27/01	50.76	17.96	---	32.80	120000	---	6880	9030	2840	14600	32300	---	---	PACE
MW-4	02/28/02	50.76	17.06	---	33.70	80000	---	4920	5450	2220	12300	35900	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-6	07/24/92	50.32	30.63	--	19.69	ND	--	1.6	ND	ND	ND	---	---	---	---
MW-6	07/27/92	50.32	30.63	--	19.69	---	---	---	---	---	---	---	---	---	---
MW-6	09/15/92	50.32	31.52	--	18.80	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-6	12/15/92	50.32	32.42	--	17.90	58	ND<50	1.3	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-6	03/15/93	50.32	26.29	--	24.03	ND<50	ND<50	ND<0.5	0.6	ND<0.5	0.7	---	(l)	---	PACE
MW-6	06/07/93	50.32	26.33	--	23.99	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	1.5	---	(l)	---	PACE
MW-6	09/23/93	50.32	29.64	--	20.68	---	---	---	---	---	---	---	---	---	---
MW-6	09/24/93	50.32	---	---	---	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28.5	(l)	---	PACE
MW-6	12/27/93	50.32	29.75	---	20.57	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	55.4	(e)(l)	---	PACE
MW-6	04/05/94	50.32	27.26	---	23.06	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	295	(e)(l)	1.7	PACE
MW-6	07/22/94	50.32	27.34	---	22.98	350	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	419	(e)(l)	4.5	PACE
MW-6 (g)	10/13/94	50.32	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	01/25/95	50.32	22.16	---	28.16	240	---	6	ND<0.5	ND<0.5	ND<1	---	---	---	ATI
MW-6 (g)	04/19/95	50.32	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-6	07/05/95	50.32	20.80	---	29.52	180	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.9	ATI
MW-6	10/05/95	50.32	24.20	---	26.12	860	---	ND<5.0	ND<5.0	ND<5.0	ND<10	3600	---	2.8	ATI
MW-6	01/12/96	50.32	25.30	---	25.02	860	---	ND<5.0	ND<5.0	ND<5.0	ND<10	2800	---	4.2	ATI
MW-6	04/22/96	50.32	19.13	---	31.19	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	470	---	4.3	SPL
MW-6	07/02/96	50.32	20.66	---	29.66	100	---	ND<0.5	ND<1	ND<1	ND<1	1100	---	4.2	SPL
MW-6	11/08/96	50.32	20.98	---	29.34	1100	---	ND<5	ND<10	ND<10	ND<10	1500	---	4.3	SPL
MW-6	01/03/97	50.32	20.53	---	29.79	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	450	---	4.5	SPL
MW-6	04/28/97	50.32	21.25	---	29.07	1400	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	3500	---	4.4	SPL
MW-6	07/01/97	50.32	23.40	---	26.92	6100	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	9100	---	3.9	SPL
MW-6	10/02/97	50.32	25.16	---	25.16	---	---	---	---	---	---	---	---	---	---
MW-6	10/03/97	50.32	---	---	---	330	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	2600	---	4.4	SPL
MW-6	01/09/98	50.32	21.13	---	29.19	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.3	SPL
MW-6	05/06/98	50.32	16.11	---	34.21	410	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	500	---	3.6	SPL
MW-6	07/21/98	50.32	16.33	---	33.99	4300	---	ND<5	ND<10	ND<10	ND<10	3800	---	4.0	SPL
MW-6	12/30/98	50.32	20.89	---	29.43	---	---	---	---	---	---	---	---	---	---
MW-6	02/02/99	50.32	20.20	---	30.12	---	---	---	---	---	---	---	---	---	---
MW-6	05/10/99	50.32	16.75	---	33.57	---	---	---	---	---	---	---	---	---	---
MW-6	09/23/99	50.32	22.55	---	27.77	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1600	---	---	SPL
MW-6	12/23/99	50.32	23.00	---	27.32	---	---	---	---	---	---	---	---	---	---
MW-6	03/27/00	50.32	16.89	---	33.43	1700	---	4.4	0.54	ND<0.5	1.0	14000	---	---	PACE
MW-6	05/22/00	50.32	18.02	---	32.30	---	---	---	---	---	---	---	---	---	---
MW-6	08/31/00	50.32	21.62	---	28.70	1200	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3900	---	---	PACE
MW-6	12/11/00	50.32	21.81	---	28.51	---	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-6	03/20/01	50.32	16.97	---	33.35	3300	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	3760	---	---	PACE
MW-6	06/19/01	50.32	19.30	---	31.02	---	---	---	---	---	---	---	---	---	---
MW-6	09/20/01	50.32	22.00	---	28.32	2200	---	2.04	8.1	3.62	13.7	2460	---	---	PACE
MW-6	12/27/01	50.32	17.85	---	32.47	830	---	0.59	ND<0.5	ND<0.5	ND<1.0	1040	---	---	PACE
MW-6	02/28/02	50.32	16.31	---	34.01	1100	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	1450	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-7	01/25/95	51.40	21.67	--	29.73	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	7.0	ATI
MW-7	04/19/95	51.40	25.27	---	26.13	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	5.0	ATI
MW-7	07/05/95	51.40	24.63	---	26.77	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.2	ATI
MW-7	10/05/95	51.40	28.21	---	23.19	83	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	77	---	4.5	ATI
MW-7	01/12/96	51.40	29.29	---	22.11	63	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	120	---	4.8	ATI
MW-7	04/22/96	51.40	23.11	---	28.29	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	13	---	4.8	SPL
MW-7	07/02/96	51.40	23.56	---	27.84	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.8	SPL
MW-7	11/08/96	51.40	20.06	---	31.34	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	5.1	SPL
MW-7	01/03/97	51.40	23.42	---	27.98	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.7	SPL
MW-7	04/28/97	51.40	24.12	---	27.28	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	SPL
MW-7	07/01/97	51.40	26.40	---	25.00	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	SPL
MW-7	10/02/97	51.40	28.14	---	23.26	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.7	SPL
MW-7	01/09/98	51.40	24.02	---	27.38	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.1	SPL
MW-7	05/06/98	51.40	21.00	---	30.40	1900	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	1800	---	3.5	SPL
MW-7	07/21/98	51.40	21.17	---	30.23	50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.7	SPL
MW-7	12/30/98	51.40	22.13	---	29.27	---	---	---	---	---	---	---	---	---	---
MW-7	02/02/99	51.40	22.08	---	29.32	---	---	---	---	---	---	---	---	---	---
MW-7	05/10/99	51.40	18.58	---	32.82	---	---	---	---	---	---	---	---	---	---
MW-7	09/23/99	51.40	24.29	---	27.11	70	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	4700	---	---	SPL
MW-7	12/23/99	51.40	24.53	---	26.87	---	---	---	---	---	---	---	---	---	---
MW-7	03/27/00	51.40	18.58	---	32.82	910	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2600	---	---	PACE
MW-7	05/22/00	51.40	19.49	---	31.91	---	---	---	---	---	---	---	---	---	---
MW-7	08/31/00	51.40	22.53	---	28.87	440	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	900	---	---	PACE
MW-7	12/11/00	51.40	22.75	---	28.65	---	---	---	---	---	---	---	---	---	---
MW-7	03/20/01	51.40	18.79	---	32.61	1100	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	1210	---	---	PACE
MW-7	06/19/01	51.40	19.82	---	31.58	---	---	---	---	---	---	---	---	---	---
MW-7	09/20/01	51.40	21.35	---	30.05	1300	---	1.21	ND<0.5	ND<0.5	ND<1.5	1550	---	---	PACE
MW-7	12/27/01	51.40	20.36	---	31.04	510	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	643	---	---	PACE
MW-7	02/28/02	51.40	21.86	---	29.54	250	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	317	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-8	01/25/95	50.88	31.59	---	19.29	54	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	7.1	ATI
MW-8	04/19/95	50.88	19.18	---	31.70	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	5.1	ATI
MW-8	07/05/95	50.88	19.03	---	31.85	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.5	ATI
MW-8	10/05/95	50.88	24.40	---	26.48	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	4.1	ATI
MW-8	01/12/96	50.88	25.51	---	25.37	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	4.6	ATI
MW-8	04/22/96	50.88	18.00	---	32.88	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.8	SPL
MW-8	07/02/96	50.88	19.83	---	31.05	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	4.5	SPL
MW-8	11/08/96	50.88	20.09	---	30.79	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.7	SPL
MW-8	01/03/97	50.88	19.72	---	31.16	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.4	SPL
MW-8	04/28/97	50.88	20.44	---	30.44	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.1	SPL
MW-8	07/01/97	50.88	22.72	---	28.16	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.8	SPL
MW-8	10/02/97	50.88	24.51	---	26.37	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.2	SPL
MW-8	01/09/98	50.88	21.17	---	29.71	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.5	SPL
MW-8	05/06/98	50.88	18.34	---	32.54	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.6	SPL
MW-8	07/21/98	50.88	18.55	---	32.33	90	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.3	SPL
MW-8	12/30/98	50.88	20.40	---	30.48	---	---	---	---	---	---	---	---	---	---
MW-8	02/02/99	50.88	19.28	---	31.60	---	---	---	---	---	---	---	---	---	---
MW-8	05/10/99	50.88	15.62	---	35.26	---	---	---	---	---	---	---	---	---	---
MW-8	09/23/99	50.88	21.74	---	29.14	---	---	---	---	---	---	---	---	---	---
MW-8	12/23/99	50.88	22.83	---	28.05	---	---	---	---	---	---	---	---	---	---
MW-8	03/27/00	50.88	16.25	---	34.63	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-8	05/22/00	50.88	17.06	---	33.82	---	---	---	---	---	---	---	---	---	---
MW-8	08/31/00	50.88	21.72	---	29.16	---	---	---	---	---	---	---	---	---	---
MW-8	12/11/00	50.88	22.03	---	28.85	---	---	---	---	---	---	---	---	---	---
MW-8	03/20/01	50.88	16.23	---	34.65	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	0.991	---	---	PACE
MW-8	06/19/01	50.88	19.35	---	31.53	---	---	---	---	---	---	---	---	---	---
MW-8	09/20/01	50.88	21.95	---	28.93	---	---	---	---	---	---	---	---	---	---
MW-8	12/27/01	50.88	16.98	---	33.90	---	---	---	---	---	---	---	---	---	---
MW-8	02/28/02	50.88	15.38	---	35.50	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<0.5	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-9	01/25/95	51.05	22.32	---	28.73	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	7.4	ATI
MW-9	04/19/95	51.05	19.86	---	31.19	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	5.2	ATI
MW-9	07/05/95	51.05	20.78	---	30.27	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	4.4	ATI
MW-9	10/05/95	51.05	24.33	---	26.72	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	2.3	ATI
QC-1 (d)	10/05/95	---	---	---	---	52	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	160	---	---	ATI
MW-9	01/12/96	51.05	25.44	---	25.61	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	3.2	ATI
MW-9	04/22/96	51.05	18.01	---	33.04	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	11	---	3.5	SPL
MW-9	07/02/96	51.05	19.70	---	31.35	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	3.3	SPL
MW-9	11/08/96	51.05	19.96	---	31.09	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.7	SPL
MW-9	01/03/97	51.05	19.52	---	31.53	ND<250	---	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	---	4.4	SPL
MW-9	04/28/97	51.05	20.22	---	30.83	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.0	SPL
MW-9	07/01/97	51.05	22.59	---	28.46	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	SPL
MW-9	10/02/97	51.05	24.33	---	26.72	---	---	---	---	---	---	---	---	---	---
MW-9	10/03/97	51.05	---	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.4	SPL
MW-9	01/09/98	51.05	21.11	---	29.94	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.9	SPL
MW-9	05/06/98	51.05	18.26	---	32.79	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.0	SPL
MW-9	07/21/98	51.05	18.46	---	32.59	70	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	3.7	SPL
MW-9 (g)	12/30/98	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	02/02/99	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	05/10/99	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	09/23/99	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	12/23/99	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	03/27/00	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	05/22/00	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	08/31/00	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	12/11/00	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	03/20/01	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9 (g)	06/19/01	51.05	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-9	09/20/01	51.05	22.20	---	28.85	6300	---	2.87	ND<0.5	ND<0.5	ND<1.5	8640	---	---	PACE
MW-9	12/27/01	51.05	18.92	---	32.13	---	---	---	---	---	---	---	---	---	---
MW-9	02/28/02	51.05	17.22	---	33.83	19000	---	1560	61.3	84	111	20200	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	Organic Lead (ug/L)	DO (ppm)	LAB
MW-10	01/09/98	---	(h) 20.97	---	---	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.3	SPL
MW-10	05/06/98	---	(h) 18.07	---	---	800	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	980	---	3.9	SPL
MW-10	07/21/98	---	(h) 18.28	---	---	80	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	4.0	SPL
MW-10	12/30/98	---	(h) 22.22	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	02/02/99	---	(h) 21.83	---	---	940	---	ND<10	ND<10	ND<10	ND<10	690	---	---	SPL
MW-10	05/10/99	---	(h) 17.99	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	09/23/99	---	(h) 22.61	---	---	ND<50	---	ND<1.0	ND<1.0	ND<1.0	1.4	1000	---	---	SPL
MW-10	12/23/99	---	(h) 23.75	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	03/27/00	---	(h) 18.83	---	---	1900	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	28000	---	---	PACE
MW-10	05/22/00	---	(h) 19.47	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	08/31/00	---	(h) 22.64	---	---	1700	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13000	---	---	PACE
MW-10	12/11/00	---	(h) 22.84	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	03/20/01	---	(h) 19.57	---	---	16000	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	11900	---	---	PACE
MW-10	06/19/01	---	(h) 20.63	---	---	---	---	---	---	---	---	---	---	---	---
MW-10	09/20/01	---	(h) 23.07	---	---	5800	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	8160	---	---	PACE
MW-10	12/27/01	---	(h) 20.92	---	---	6600	---	17.3	14.5	ND<12.5	ND<25	7750	---	---	PACE
MW-10	02/28/02	---	(h) 18.52	---	---	3600	---	10.8	ND<0.5	ND<0.5	ND<1.0	5380	---	---	PACE
QC-2 (i)	09/15/92	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
QC-2 (i)	12/15/92	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
QC-2 (i)	03/15/93	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(i)	---	PACE
QC-2 (i)	06/07/93	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	(i)	---	PACE
QC-2 (i)	09/24/93	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(i)	---	PACE
QC-2 (i)	12/27/93	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(i)	---	PACE
QC-2 (i)	04/05/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(i)	---	PACE
QC-2 (i)	07/22/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(i)	---	PACE
QC-2 (i)	10/13/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(i)	---	PACE
QC-2 (i)	01/25/95	---	---	---	---	ND<50	---	ND<0.5	2	0.6	1	---	---	---	ATI
QC-2 (i)	04/19/95	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ATI
QC-2 (i)	07/05/95	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	ATI
QC-2 (i)	10/05/95	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	ATI
QC-2 (i)	01/12/96	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	ATI
QC-2 (i)	04/22/96	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	SPL
QC-2 (i)	07/02/96	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
DO	Dissolved oxygen
ug/L	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
---	Not analyzed/applicable/measurable
ANA	Anamatrix, Inc.
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories

NOTES:

- (a) Casing elevations surveyed to the nearest 0.01 foot relative to mean sea level.
- (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.
- (c) Concentrations reported as diesel from MW-1, MW-2 and MW-4 are primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene.
- (d) Blind duplicate.
- (e) A copy of the documentation for this data is included in Alisto report 10-018-05-004.
- (f) Well not sampled due to presence of free product.
- (g) Well inaccessible.
- (h) Top of casing not surveyed.
- (i) Travel blank.
- (j) EPA method by 8020\8260.
- (k) Samples ran outside of EPA recommended hold time.
- (l) A copy of the documentation for this data can be found in Blaine Tech Services report 010619-C-2. The MTBE data for the March 15, 1993 and June 7, 1993 events have been destroyed.
- (m) Thickness of SPH is only an estimate. The resulting groundwater elevation will not be used in contouring.
- \* Depth to water and resulting groundwater elevation is anomalous and not used in groundwater contouring.



# Analytical Appendix



**Pace Analytical™**  
www.pacelabs.com

**Pace Analytical Services, Inc.**  
900 Gemini Avenue  
Houston, TX 77058  
Phone: 281.488.1810  
Fax: 281.488.4661

March 07, 2002

Ms. Cindy Magyar  
Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112

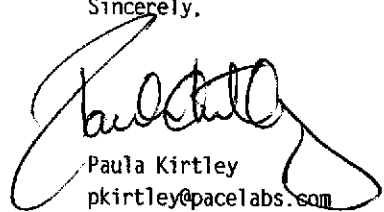
RE: Lab Project Number: 8526311  
Client Project ID: BP Site 11117

Dear Ms. Magyar:

Enclosed are the analytical results for sample(s) received by the laboratory on March 5, 2002. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,



Paula Kirtley  
pkirtley@pacelabs.com  
Project Manager

Enclosures

**REPORT OF LABORATORY ANALYSIS**

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

Lab Project Number: 8526311  
Client Project ID: BP Site 11117

Attn: Ms. Cindy Magyar  
Phone:

Lab Sample No: 851741771      Project Sample Number: 8526311-001      Date Collected: 02/28/02 12:17  
Client Sample ID: MW-1 (11117)      Matrix: Water      Date Received: 03/05/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed	CAS No.	Fnote	Reg Limi
<b>GC Volatiles</b>								
GAS by Mod 8015, Water      Prep/Method: EPA 8015 Modified / EPA 8015 Modified								
Gasoline Range Organics	ND	ug/l	50.	1.0	03/06/02 11:45	WRIC		
1,4-Difluorobenzene (S)	85	%		1.0	03/06/02 11:45	WRIC		
4-Bromofluorobenzene (S)	79	%		1.0	03/06/02 11:45	WRIC 460-00-4		
SW8021 Aromatics, Water      Prep/Method: See analytical method / EPA 8021								
Benzene	ND	ug/l	0.500	1.0	03/06/02 11:45	WRIC 71-43-2		
Ethylbenzene	ND	ug/l	0.500	1.0	03/06/02 11:45	WRIC 100-41-4		
Toluene	ND	ug/l	0.500	1.0	03/06/02 11:45	WRIC 108-88-3		
Xylene (Total)	ND	ug/l	1.00	1.0	03/06/02 11:45	WRIC 1330-20-7		
Methyl-tert-butyl ether	8.70	ug/l	0.500	1.0	03/06/02 11:45	WRIC 1634-04-4		
1,4-Difluorobenzene (S)	102	%		1.0	03/06/02 11:45	WRIC		
4-Bromofluorobenzene (S)	92	%		1.0	03/06/02 11:45	WRIC 460-00-4		

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8526311  
Client Project ID: BP Site 11117

Lab Sample No: 851741772      Project Sample Number: 8526311-002      Date Collected: 02/28/02 13:40  
Client Sample ID: MW-2 (11117)      Matrix: Water      Date Received: 03/05/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed	CAS No.	Ftnote	Reg Limit
------------	---------	-------	--------------	----------	----------	---------	--------	-----------

**GC Volatiles**

GAS by Mod 8015, Water		Prep/Method: EPA 8015 Modified / EPA 8015 Modified						
Gasoline Range Organics	120000	ug/l	5000	100	03/06/02 20:41	WRIC		
1,4-Difluorobenzene (S)	84	%		1.0	03/06/02 20:41	WRIC		
4-Bromofluorobenzene (S)	84	%		1.0	03/06/02 20:41	WRIC	460-00-4	
SW8021 Aromatics, Water		Prep/Method: See analytical method / EPA 8021						
Benzene	13900	ug/l	50.0	100	03/06/02 20:41	WRIC	71-43-2	
Ethylbenzene	3030	ug/l	50.0	100	03/06/02 20:41	WRIC	100-41-4	
Toluene	18800	ug/l	50.0	100	03/06/02 20:41	WRIC	108-88-3	
Xylene (Total)	19600	ug/l	100.	100	03/06/02 20:41	WRIC	1330-20-7	
Methyl-tert-butyl ether	17300	ug/l	50.0	100	03/06/02 20:41	WRIC	1634-04-4	
1,4-Difluorobenzene (S)	100	%		1.0	03/06/02 20:41	WRIC		
4-Bromofluorobenzene (S)	97	%		1.0	03/06/02 20:41	WRIC	460-00-4	

**REPORT OF LABORATORY ANALYSIS**

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Lab Project Number: 8526311  
Client Project ID: BP Site 11117

Lab Sample No: 851741773      Project Sample Number: 8526311-003      Date Collected: 02/28/02 11:25  
Client Sample ID: MW-3 (11117)      Matrix: Water      Date Received: 03/05/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed	CAS No.	Ftnote	Reg Limit
<b>GC Volatiles</b>								
GAS by Mod 8015, Water      Prep/Method: EPA 8015 Modified / EPA 8015 Modified								
Gasoline Range Organics	ND	ug/l	50.	1.0	03/06/02 14:04	WRIC		
1,4-Difluorobenzene (S)	84	%		1.0	03/06/02 14:04	WRIC		
4-Bromofluorobenzene (S)	79	%		1.0	03/06/02 14:04	WRIC 460-00-4		
SW8021 Aromatics, Water      Prep/Method: See analytical method / EPA 8021								
Benzene	ND	ug/l	0.500	1.0	03/06/02 19:02	WRIC 71-43-2		
Ethylbenzene	ND	ug/l	0.500	1.0	03/06/02 19:02	WRIC 100-41-4		
Toluene	ND	ug/l	0.500	1.0	03/06/02 19:02	WRIC 108-88-3		
Xylene (Total)	ND	ug/l	1.00	1.0	03/06/02 19:02	WRIC 1330-20-7		
Methyl-tert-butyl ether	0.580	ug/l	0.500	1.0	03/06/02 19:02	WRIC 1634-04-4		
1,4-Difluorobenzene (S)	100	%		1.0	03/06/02 19:02	WRIC		
4-Bromofluorobenzene (S)	93	%		1.0	03/06/02 19:02	WRIC 460-00-4		

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Lab Project Number: 8526311  
Client Project ID: BP Site 11117

Lab Sample No: 851741784      Project Sample Number: 8526311-004      Date Collected: 02/28/02 15:25  
Client Sample ID: MW-4 (11117)      Matrix: Water      Date Received: 03/05/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed	CAS No.	Ftnote	Req Limit
<b>GC Volatiles</b>								
GAS by Mod 8015, Water      Prep/Method: EPA 8015 Modified / EPA 8015 Modified								
Gasoline Range Organics	80000	ug/l	1200	25.0	03/06/02 14:44	WRIC		
1,4-Difluorobenzene (S)	91	%		1.0	03/06/02 14:44	WRIC		
4-Bromofluorobenzene (S)	87	%		1.0	03/06/02 14:44	WRIC	460-00-4	
SW8021 Aromatics, Water      Prep/Method: See analytical method / EPA 8021								
Benzene	4920	ug/l	12.5	25.0	03/06/02 14:44	WRIC	71-43-2	
Ethylbenzene	2220	ug/l	12.5	25.0	03/06/02 14:44	WRIC	100-41-4	
Toluene	5450	ug/l	12.5	25.0	03/06/02 14:44	WRIC	108-88-3	
Xylene (Total)	12300	ug/l	25.0	25.0	03/06/02 14:44	WRIC	1330-20-7	
Methyl-tert-butyl ether	35900	ug/l	125.	250	03/06/02 14:44	WRIC	1634-04-4	
1,4-Difluorobenzene (S)	100	%		1.0	03/06/02 14:44	WRIC		
4-Bromofluorobenzene (S)	97	%		1.0	03/06/02 14:44	WRIC	460-00-4	

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Lab Project Number: 8526311  
Client Project ID: BP Site 11117

Lab Sample No: 851741785      Project Sample Number: 8526311-005      Date Collected: 02/28/02 11:43  
Client Sample ID: MW-6 (11117)      Matrix: Water      Date Received: 03/05/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed	CAS No.	Ftnote	Reg	Limit
<b>GC Volatiles</b>									
GAS by Mod 8015: Water      Prep/Method: EPA 8015 Modified / EPA 8015 Modified									
Gasoline Range Organics	1100	ug/l	50.	1.0	03/06/02 12:44	WRIC			
1,4-Difluorobenzene (S)	84	%		1.0	03/06/02 12:44	WRIC			
4-Bromofluorobenzene (S)	80	%		1.0	03/06/02 12:44	WRIC 460-00-4			
SW8021 Aromatics, Water      Prep/Method: See analytical method / EPA 8021									
Benzene	ND	ug/l	0.500	1.0	03/06/02 12:44	WRIC 71-43-2			
Ethylbenzene	ND	ug/l	0.500	1.0	03/06/02 12:44	WRIC 100-41-4			
Toluene	ND	ug/l	0.500	1.0	03/06/02 12:44	WRIC 108-88-3			
Xylene (Total)	ND	ug/l	1.00	1.0	03/06/02 12:44	WRIC 1330-20-7			
Methyl-tert-butyl ether	1450	ug/l	5.00	10.0	03/06/02 12:44	WRIC 1634-04-4			
1,4-Difluorobenzene (S)	98	%		1.0	03/06/02 12:44	WRIC			
4-Bromofluorobenzene (S)	93	%		1.0	03/06/02 12:44	WRIC 460-00-4			

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Lab Project Number: 8526311  
Client Project ID: BP Site 11117

Lab Sample No: 851741786      Project Sample Number: 8526311-006      Date Collected: 02/28/02 12:00  
Client Sample ID: MW-7 (11117)      Matrix: Water      Date Received: 03/05/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed	CAS No.	Ftnote	Reg Limi
<b>GC Volatiles</b>								
GAS by Mod 8015, Water      Prep/Method: EPA 8015 Modified / EPA 8015 Modified								
Gasoline Range Organics	250	ug/l	50.	1.0	03/06/02 12:05	WRIC		
1,4-Difluorobenzene (S)	84	%		1.0	03/06/02 12:05	WRIC		
4-Bromofluorobenzene (S)	79	%		1.0	03/06/02 12:05	WRIC	460-00-4	
SW8021 Aromatics, Water      Prep/Method: See analytical method / EPA 8021								
Benzene	ND	ug/l	0.500	1.0	03/06/02 12:05	WRIC	71-43-2	
Ethylbenzene	ND	ug/l	0.500	1.0	03/06/02 12:05	WRIC	100-41-4	
Toluene	ND	ug/l	0.500	1.0	03/06/02 12:05	WRIC	108-88-3	
Xylene (Total)	ND	ug/l	1.00	1.0	03/06/02 12:05	WRIC	1330-20-7	
Methyl-tert-butyl ether	317.	ug/l	0.500	1.0	03/06/02 12:05	WRIC	1634-04-4	
1,4-Difluorobenzene (S)	98	%		1.0	03/06/02 12:05	WRIC		
4-Bromofluorobenzene (S)	92	%		1.0	03/06/02 12:05	WRIC	460-00-4	

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Lab Project Number: 8526311  
Client Project ID: BP Site 11117

Lab Sample No: 851741787      Project Sample Number: 8526311-007      Date Collected: 02/28/02 11:01  
Client Sample ID: MW-8 (11117)      Matrix: Water      Date Received: 03/05/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed	CAS No.	Fnote	Reg Limit
<b>GC Volatiles</b>								
GAS by Mod 8015, Water	Prep/Method: EPA 8015 Modified / EPA 8015 Modified							
Gasoline Range Organics	ND	ug/l	50.	1.0	03/06/02 12:25	WRIC		
1,4-Difluorobenzene (S)	84	%		1.0	03/06/02 12:25	WRIC		
4-Bromofluorobenzene (S)	79	%		1.0	03/06/02 12:25	WRIC	460-00-4	
SW8021 Aromatics, Water	Prep/Method: See analytical method / EPA 8021							
Benzene	ND	ug/l	0.500	1.0	03/06/02 12:25	WRIC	71-43-2	
Ethylbenzene	ND	ug/l	0.500	1.0	03/06/02 12:25	WRIC	100-41-4	
Toluene	ND	ug/l	0.500	1.0	03/06/02 12:25	WRIC	108-88-3	
Xylene (Total)	ND	ug/l	1.00	1.0	03/06/02 12:25	WRIC	1330-20-7	
Methyl-tert-butyl ether	ND	ug/l	0.500	1.0	03/06/02 12:25	WRIC	1634-04-4	
1,4-Difluorobenzene (S)	100	%		1.0	03/06/02 12:25	WRIC		
4-Bromofluorobenzene (S)	92	%		1.0	03/06/02 12:25	WRIC	460-00-4	

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8526311  
Client Project ID: BP Site 11117

Lab Sample No: 851741788      Project Sample Number: 8526311-008      Date Collected: 02/28/02 12:46  
Client Sample ID: MW-9 (11117)      Matrix: Water      Date Received: 03/05/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed	CAS No.	ftnote	Reg Limit
<b>GC Volatiles</b>								
GAS by Mod 8015, Water	Prep/Method: EPA 8015 Modified / EPA 8015 Modified							
Gasoline Range Organics	19000	ug/l	1200	25.0	03/06/02 15:04	WRIC		
1,4-Difluorobenzene (S)	84	%		1.0	03/06/02 15:04	WRIC		
4-Bromofluorobenzene (S)	80	%		1.0	03/06/02 15:04	WRIC	460-00-4	
SW8021 Aromatics, Water	Prep/Method: See analytical method / EPA 8021							
Benzene	1560	ug/l	12.5	25.0	03/06/02 15:04	WRIC	71-43-2	
Ethylbenzene	84.0	ug/l	12.5	25.0	03/06/02 15:04	WRIC	100-41-4	
Toluene	61.3	ug/l	12.5	25.0	03/06/02 15:04	WRIC	108-88-3	
Xylene (Total)	111.	ug/l	25.0	25.0	03/06/02 15:04	WRIC	1330-20-7	
Methyl-tert-butyl ether	20200	ug/l	50.0	100	03/06/02 15:04	WRIC	1634-04-4	
1,4-Difluorobenzene (S)	99	%		1.0	03/06/02 15:04	WRIC		
4-Bromofluorobenzene (S)	93	%		1.0	03/06/02 15:04	WRIC	460-00-4	

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Lab Project Number: 8526311  
Client Project ID: BP Site 11117

Lab Sample No: 851741789      Project Sample Number: 8526311-009      Date Collected: 02/28/02 13:02  
Client Sample ID: MW-10(11117)      Matrix: Water      Date Received: 03/05/02 08:50

Parameters	Results	Units	Report Limit	Dilution	Analyzed	CAS No.	Ftnote	Reg Limi
<b>GC Volatiles</b>								
GAS by Mod 8015, Water	Prep/Method: EPA 8015 Modified / EPA 8015 Modified							
Gasoline Range Organics	3600	ug/l	50.	1.0	03/06/02 13:44	WRIC		
1,4-Difluorobenzene (S)	84	%		1.0	03/06/02 13:44	WRIC		
4-Bromofluorobenzene (S)	80	%		1.0	03/06/02 13:44	WRIC 460-00-4		
SW8021 Aromatics, Water	Prep/Method: See analytical method / EPA 8021							
Benzene	10.8	ug/l	0.500	1.0	03/06/02 13:44	WRIC 71-43-2		
Ethylbenzene	ND	ug/l	0.500	1.0	03/06/02 13:44	WRIC 100-41-4		
Toluene	ND	ug/l	0.500	1.0	03/06/02 13:44	WRIC 108-88-3		
Xylene (Total)	ND	ug/l	1.00	1.0	03/06/02 13:44	WRIC 1330-20-7		
Methyl-tert-butyl ether	5380	ug/l	12.5	25.0	03/06/02 13:44	WRIC 1634-04-4		
1,4-Difluorobenzene (S)	98	%		1.0	03/06/02 13:44	WRIC		
4-Bromofluorobenzene (S)	92	%		1.0	03/06/02 13:44	WRIC 460-00-4		

Date: 03/07/02

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Lab Project Number: 8526311  
Client Project ID: BP Site 11117

---

**PARAMETER FOOTNOTES**

- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- (S) Surrogate

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Lab Project Number: 8526311

Client Project ID: BP Site 11117

QC Batch: 66243

Analysis Method: EPA 8021

QC Batch Method: See analytical method

Analysis Description: SW8021 Aromatics, Water

Associated Lab Samples: 851741771 851741772 851741773 851741784 851741785  
851741786 851741787 851741788 851741789

METHOD-BLANK: 851741955

Associated Lab Samples: 851741771 851741772 851741773 851741784 851741785 851741786 851741787  
851741788 851741789

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	0.500	
Ethylbenzene	ug/l	ND	0.500	
Toluene	ug/l	ND	0.500	
Xylene (Total)	ug/l	ND	1.50	
Methyl-tert-butyl ether	ug/l	ND	0.500	
1,4-Difluorobenzene (S)	%	98		
4-Bromofluorobenzene (S)	%	92		

LABORATORY CONTROL SAMPLE: 851741956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50	50.75	102	
Ethylbenzene	ug/l	50	49.32	99	
Toluene	ug/l	50	49.02	98	
Xylene (Total)	ug/l	100	97.52	98	
Methyl-tert-butyl ether	ug/l	50	51.34	103	
1,4-Difluorobenzene (S)				99	
4-Bromofluorobenzene (S)				94	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851741957 851741958

Parameter	Units	851741787 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	0	50.00	50.51	50.61	101	101	0	
Ethylbenzene	ug/l	0	50.00	49.49	49.81	99	100	1	

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 8526311

Client Project ID: BP Site 11117

QC Batch: 66244

Analysis Method: EPA 8015 Modified

QC Batch Method: EPA 8015 Modified

Analysis Description: GAS by Mod 8015, Water

Associated Lab Samples:	851741771	851741772	851741773	851741784	851741785
	851741786	851741787	851741788	851741789	

METHOD BLANK: 851741959

Associated Lab Samples:	851741771	851741772	851741773	851741784	851741785	851741786	851741787
	851741788	851741789					

<u>Parameter</u>	<u>Units</u>	<u>Blank Result</u>	<u>Reporting Limit</u>	<u>Footnotes</u>
Gasoline Range Organics	ug/l	ND	50.	
1,4-Difluorobenzene (S)	%	84		
4-Bromofluorobenzene (S)	%	78		

LABORATORY CONTROL SAMPLE: 851741960

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>Footnotes</u>
Gasoline Range Organics	ug/l	1000	1029	103	
1,4-Difluorobenzene (S)				107	
4-Bromofluorobenzene (S)				88	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 851741961 851741962

<u>Parameter</u>	<u>Units</u>	<u>851741787 Result</u>	<u>Spike Conc.</u>	<u>MS Result</u>	<u>MSD Result</u>	<u>MS % Rec</u>	<u>MSD % Rec</u>	<u>RPD</u>	<u>Footnotes</u>
Gasoline Range Organics	ug/l	19.86	1000.00	923.6	911.4	90	89	1	
1,4-Difluorobenzene (S)						102	102		
4-Bromofluorobenzene (S)						84	83		

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Lab Project Number: 8526311  
Client Project ID: BP Site 11117

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**QUALITY CONTROL DATA PARAMETER FOOTNOTES**

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

- LCS(D) Laboratory Control Sample (Duplicate)
- MS(D) Matrix Spike (Duplicate)
- DUP Sample Duplicate
- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- RPD Relative Percent Difference
- (S) Surrogate

**REPORT OF LABORATORY ANALYSIS**

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## CHAIN OF CUSTODY

CONSULTANT'S NAME <b>Blaine Tech Services, Inc.</b>		CONSULTANT'S ADDRESS <b>1680 Rogers Ave., San Jose CA 95112</b>	
IP SITE NUMBER <b>11117</b>	GLOBAL ID <b>T0600100201</b>	BP SITE / FACILITY ADDRESS <b>7210 Bancroft, Oakland</b>	CONSULTANT PROJECT NUMBER <b>020228502</b>
CONSULTANT PROJECT MANAGER <b>Jindy Magyar</b>		PHONE NUMBER <b>(408) 573-0555 x 221</b>	FAX NUMBER <b>(408) 573-7771</b>
IP CONTACT <b>Scott Hooton</b>		BP ADDRESS <b>295 SW 41st Street, Suite N, Renton WA</b>	CONSULTANT CONTRACT NUMBER <b>J966579</b>
AB CONTACT <b>Pace - Paula Kirtley</b>		PHONE NUMBER <b>(425) 251-0689</b>	FAX NO. <b>(425) 251-0736</b>
P CONTACT REQUESTING RUSH TAT (Print BP Contact Name)		LABORATORY ADDRESS <b>900 Gemini Ave., Houston, TX 77058</b>	PHONE NUMBER <b>(281) 488-1810</b>
RUSH REQUESTED OF (Print Consultant Contact Name)		DATE/TIME	SHIPMENT DATE
			SHIPMENT METHOD

AT:  24 HOURS     48 HOURS     72 HOURS     Standard 7 or 14 Days

ANALYSIS REQUIRED

AIRBILL NUMBER

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	TPH-G + BTEX / MTBE (8015M)	TPH-D (8015M)	FUEL OXYGENATES (8260)	1,2 DCA + EDB (8010)								COMMENTS	
				NO.	TYPE (VOL)	LAB SAMPLE #													
mw-1	2/28/02	1217	W	3	UDA	MCL	X												8526311
mw-2		1340					X												85174771
mw-3		1125					X												72
mw-4		1525					X												73
mw-6		1143					X												84
mw-7		1200					X												85
mw-8		1101					X												86
mw-9		1246					X												87
mw-10		1302					X												88
																			89

SAMPLER BY (Please Print Name) <b>Shaun O'Bryan</b>			SAMPLER BY (Signature) <i>[Signature]</i>				ADDITIONAL COMMENTS			
RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	0.1°C				
<b>Shaun O'Bryan</b>	<b>3/4/02</b>	<b>1310</b>	<b>AIRBORNE EXPRESS</b>	<b>3/4/02</b>	<b>1310</b>					
			<i>[Signature]</i>	<b>3/5/02</b>	<b>0850</b>					

# **Field Data Sheets**

WELL GAUGING DATA

Project # 020228-SO-2 Date 2/28/02 Client BP

Site 7210 Bancroft, Oakland 11117

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	2					15.25	36.35	TOC
MW-2	2	No FP Detected				17.42	39.41	
MW-3	2				15.81	40.55		
MW-4	2	No FP Detected				17.06	39.56	
MW-6	2				16.31	38.50		
MW-7	2				21.86	44.74		
MW-8	2				15.38	39.45		
MW-9	2				17.22	38.21		
MW-10	2				18.52	35.64	↓	

## BP WELL MONITORING DATA SHEET

Project #: <b>020228-SO-2</b>	Station # <b>11117</b>
Sampler: <b>O'Bryan</b>	Date: <b>2/28/02</b>
Well I.D.: <b>MW-1</b>	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth: <b>36.35</b>	Depth to Water: <b>15.25</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	D.O. Meter (if req'd): <input type="radio"/> YSI <input type="radio"/> HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	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

Other: \_\_\_\_\_

<b>3.4</b>	<b>x</b>	<b>3</b>	<b>=</b>	<b>10.2</b>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1208	67.6	7.2	568	3.5	
1211	67.2	7.0	667	7	
1214	67.1	7.0	567	10.25	

Did well dewater?    Yes     No

Gallons actually evacuated: **10.25**

Sampling Time: **1217**                      Sampling Date: **2/28/02**

Sample I.D. (Blind): **MW-1**                      Laboratory:  Pace                      Other \_\_\_\_\_

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

## BP WELL MONITORING DATA SHEET

Project #: <b>020228-SO-2</b>	Station # <b>11117</b>
Sampler: <b>O'Bryan</b>	Date: <b>2/28/02</b>
Well I.D.: <b>MW-2</b>	Well Diameter: <b>②</b> 3 4 6 8 <u>    </u>
Total Well Depth: <b>39.41</b>	Depth to Water: <b>17.42</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>PVC</b> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	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

Other: \_\_\_\_\_

<b>3.5</b>	X	<b>3</b>	=	<b>10.5</b>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<b>1330</b>	<b>70.9</b>	<b>6.7</b>	<b>758</b>	<b>3.5</b>	
<b>1333</b>	<b>71.0</b>	<b>6.9</b>	<b>671</b>	<b>7</b>	
<b>1336</b>	<b>71.0</b>	<b>6.8</b>	<b>643</b>	<b>10.5</b>	

Did well dewater? Yes   No      Gallons actually evacuated: **10.5**

Sampling Time: **1340**      Sampling Date: **2/28/02**

Sample I.D. (Blind): **MW-2**      Laboratory: Pace      Other: \_\_\_\_\_

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

## BP WELL MONITORING DATA SHEET

Project #: <b>020228-SO-2</b>	Station # <b>11117</b>
Sampler: <b>O'Bryan</b>	Date: <b>2/28/02</b>
Well I.D.: <b>MW-3</b>	Well Diameter: <b>②</b> 3 4 6 8
Total Well Depth: <b>40.55</b>	Depth to Water: <b>15.81</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>PVC</b> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	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

Other: \_\_\_\_\_

<u>4.0</u>	X	<u>3</u>	=	<u>12.0</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1113	66.5	6.6	813	4	Clear
1117	67.2	6.7	754	8	Clouded
1121	67.6	6.8	701	12	Clear

Did well dewater? Yes   No      Gallons actually evacuated: **12**

Sampling Time: **1125**      Sampling Date: **2/28/02**

Sample I.D. (Blind): **MW-3**      Laboratory: **Pace** Other: \_\_\_\_\_

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

## BP WELL MONITORING DATA SHEET

Project #: <u>020228-SO-2</u>	Station # <u>11117</u>
Sampler: <u>O'Bryan</u>	Date: <u>2/28/02</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>②</u> 3 4 6 8 _____
Total Well Depth: <u>39.56</u>	Depth to Water: <u>17.06</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
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method: <u>Bailer</u> Disposable Bailer <u>Middleburg</u> Electric Submersible Extraction Pump Other: _____	Sampling Method: <u>Bailer</u> <u>Disposable Bailer</u> Extraction Port Other: _____
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<u>3.6</u>	x	<u>3</u>	=	<u>10.8</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1514	71.8	6.9	1064	3.75	
1518	71.6	6.8	1058	7.5	
1521	71.7	6.8	1061	11	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>11</u>
Sampling Time: <u>1525</u>	Sampling Date: <u>2/28/02</u>
Sample I.D. (Blind): <u>MW-4</u>	Laboratory: <u>Pace</u> Other _____
Analyzed for: <u>TPH-C</u> <u>BTEX</u> <u>MTBE</u> 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

## BP WELL MONITORING DATA SHEET

Project #: <b>020228-SO-2</b>	Station # <b>11117</b>
Sampler: <b>O'Bryan</b>	Date: <b>2/28/02</b>
Well I.D.: <b>MW-6</b>	Well Diameter: <input checked="" type="radio"/> 2    3    4    6    8    ___
Total Well Depth: <b>38.50</b>	Depth to Water: <b>16.31</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC    Grade	D.O. Meter (if req'd):    YSI    HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method:                      **Bailer**                      Sampling Method:                      **Bailer**

Disposable Bailer                       **Disposable Bailer**  
 **Middleburg**                       Extraction Port  
 Electric Submersible  
 Extraction Pump  
 Other: \_\_\_\_\_

<b>3.6</b>	x	<b>3</b>	=	<b>10.8</b>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1132	69.3	7.0	778	3.75	Clouded
1136	69.7	6.8	781	7.5	Clear
1139	69.7	6.7	785	11	"

Did well dewater? Yes   **No**                      Gallons actually evacuated: **11**

Sampling Time: **1143**                      Sampling Date: **2/28/02**

Sample I.D. (Blind): **MW-6**                      Laboratory:  **Pace**                      Other: \_\_\_\_\_

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:



### BP WELL MONITORING DATA SHEET

Project #: <u>020228-SO-2</u>	Station # <u>11117</u>
Sampler: <u>O'Bryan</u>	Date: <u>2/28/02</u>
Well I.D.: <u>MW-7</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>44.74</u>	Depth to Water: <del>16.31</del> <u>21.86</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
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>3</sup> * 0.163

Purge Method: Bailer      Sampling Method: Bailer

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

<u>3.7</u>	X	<u>3</u>	=	<u>11.1</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
<u>1149</u>	<u>70.7</u>	<u>7.3</u>	<u>579</u>	<u>3.75</u>	
<u>1153</u>	<u>70.7</u>	<u>7.6</u>	<u>578</u>	<u>7.5</u>	
<u>1156</u>	<u>70.5</u>	<u>7.6</u>	<u>574</u>	<u>11.25</u>	

Did well dewater? Yes   No      Gallons actually evacuated: 11.25

Sampling Time: 1200      Sampling Date: 2/28/02

Sample I.D. (Blind): MW-7      Laboratory: Pace      Other: \_\_\_\_\_

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:

## BP WELL MONITORING DATA SHEET

Project #: <b>020228-SO-2</b>	Station # <b>11117</b>
Sampler: <b>O'Bryan</b>	Date: <b>2/28/02</b>
Well I.D.: <b>MW-8</b>	Well Diameter: <b>2</b> 3 4 6 8
Total Well Depth: <b>39.45</b>	Depth to Water: <b>15.38</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <b>PVC</b> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	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

Other: \_\_\_\_\_

<b>3.9</b>	X	<b>3</b>	=	<b>11.7</b>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1049	59.3	5.6	553	4	Brown
1053	58.4	6.4	499	8	"
1051	58.0	6.6	492	12	"

Did well dewater? Yes  No  Gallons actually evacuated: **12**

Sampling Time: **1101**      Sampling Date: **2/28/02**

Sample I.D. (Blind): **MW-8**      Laboratory: **Face**      Other: \_\_\_\_\_

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

**BP WELL MONITORING DATA SHEET**

Project #: <b>020228-SO-2</b>	Station # <b>11117</b>
Sampler: <b>O'Bryan</b>	Date: <b>2/28/02</b>
Well I.D.: <b>MW-9</b>	Well Diameter: <b>2</b> 3 4 6 8
Total Well Depth: <b>38.81</b>	Depth to Water: <b>17.22</b>
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
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method: Bailer Disposable Bailer <u>Middleburg</u> Electric Submersible Extraction Pump Other: _____	Sampling Method: Bailer <u>Disposable Bailer</u> Extraction Port Other: _____
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<u>3.5</u>	X	<u>3</u>	=	<u>10.5</u> Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1235	67.9	7.0	831	3.5	
1238	67.7	7.0	839	7	
1241	67.6	6.9	832	10.5	

Did well dewater? Yes No Gallons actually evacuated: **10.5**

Sampling Time: **1246** Sampling Date: **2/28/02**

Sample I.D. (Blind): **MW-9** Laboratory: Pace Other \_\_\_\_\_

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

## BP WELL MONITORING DATA SHEET

Project #: <b>020228-SO-2</b>	Station # <b>11117</b>
Sampler: <b>O'Bryan</b>	Date: <b>2/28/02</b>
Well I.D.: <b>MW-10</b>	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth: <b>35.64</b>	Depth to Water: <b>18.52</b>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVC    Grade	D.O. Meter (if req'd):    YSI    HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Purge Method: <input type="radio"/> Bailer <input type="radio"/> Disposable Bailer <input checked="" type="radio"/> <b>Middleburg</b> <input type="radio"/> Electric Submersible <input type="radio"/> Extraction Pump Other: _____	Sampling Method: <input type="radio"/> Bailer <input checked="" type="radio"/> <b>Disposable Bailer</b> <input type="radio"/> Extraction Port Other: _____
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<b>2.7</b>	x	<b>3</b>	=	<b>8.1</b>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1253	70.5	7.2	1016	2.75	
1256	71.4	7.0	1014	5.5	
1258	72.3	7.1	1000	8.25	

Did well dewater? Yes <input type="radio"/> <input checked="" type="radio"/> <b>NO</b>	Gallons actually evacuated: <b>8.25</b>
Sampling Time: <b>1302</b>	Sampling Date: <b>2/28/02</b>
Sample I.D. (Blind): <b>MW-10</b>	Laboratory: <input checked="" type="radio"/> <b>Pace</b> Other: _____
Analyzed for: <input checked="" type="radio"/> <b>TPH-G</b> <input checked="" type="radio"/> <b>BTEX</b> <input checked="" type="radio"/> <b>MTBE</b> TPH-D    Other: _____	
D.O. (if req'd):	Pre-purge: <input type="text"/> mg/L    Post-purge: <input type="text"/> mg/L
O.R.P. (if req'd):	Pre-purge: <input type="text"/> mV    Post-purge: <input type="text"/> mV