

bp



Scott T. Hooton
Portfolio Manager

BP Oil Company
Midwest Environmental Services
295 SW 41st Street
Bldg. 13, Suite N
Renton, WA 98055

Switchboard: 425/251-0667
Central Fax: 425/251-0736

STID
780 ✓

10/21/01
[Signature]

May 11, 2001

Mr. Amir K. Gholami
Alameda Country Health Care Services
Agency
1131 Harbor Bay Parkway, STE 250
Alameda, CA 94502-6577

RE: Former BP Oil Site No. 11107
18501 Hesperian Boulevard
San Lorenzo, CA

Direct: 425/251-0689
Cell: 206/919-5029
hootonst@bp.com
www.bp.com

Dear Mr. Gholami:

This transmits the *Second Quarter 2001 Groundwater Monitoring* report prepared on behalf of BP by Blaine Tech Services. The report summarizes chemical data obtained since 1992, including results associated with samples obtained on 7 May 2001.

The enclosed report shows that concentrations of petroleum hydrocarbons are generally decreasing, consistent with the natural attenuation of a petroleum hydrocarbons release. The highest MTBE concentrations are associated with samples obtained from well MW-5 (320 ug/l).

Please contact me at (425) 251-0689 if you have questions.

Sincerely,

[Signature]
Scott Hooton

Attachment

cc: site file
David Camille - Tosco (w/attachment)
Khaled Rahman - Cambria (w/attachment)

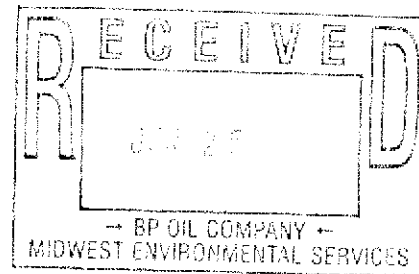
BLAINE
TECH SERVICES, INC.



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

✓
June 22, 2001

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



2nd Quarter 2001 Monitoring at 11107

Second Quarter 2001 Groundwater Monitoring
BP Service Station Number 11107
18501 Hesperian Boulevard
San Lorenzo, CA

Monitoring Performed on May 17, 2001

Groundwater Sampling Report 010517-C-4

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.

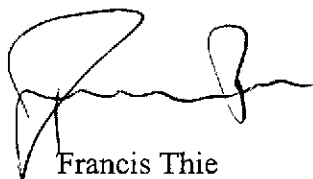
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The **Professional Engineering Appendix** contains a **Groundwater Elevation Map** and a **Dissolved Petroleum Hydrocarbon Concentration Map**.

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,

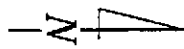
A handwritten signature in black ink, appearing to read 'Francis Thie', with a stylized flourish at the end.

Francis Thie
Vice President

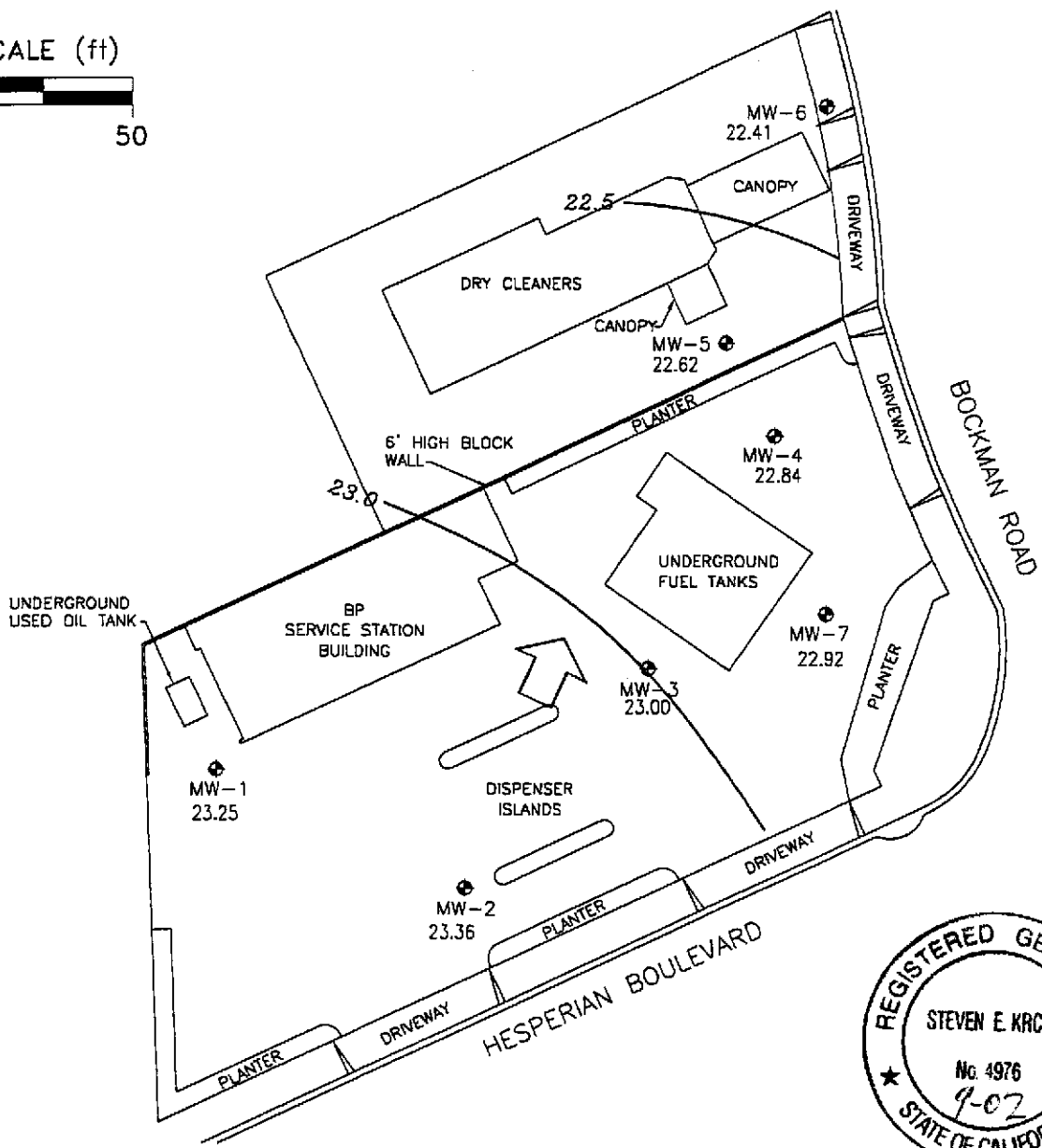
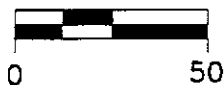
FPT/ks

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

Professional Engineering Appendix



SCALE (ft)



EXPLANATION

- GROUNDWATER MONITORING WELL
- 23.25 GROUNDWATER ELEVATION (FT, MSL)
- 23.0 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ➔ APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.003

Ref. 111107bm.dwg
Basemap from Alisto Engineering Group

PREPARED BY

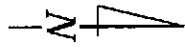
RRM
engineering contracting firm

BP Service Station No. 11107
18501 Hesperian Boulevard
San Lorenzo, California

GROUNDWATER ELEVATION CONTOUR MAP,
MAY 17, 2001

FIGURE:
1

PROJECT:
DAC04



SCALE (ft)

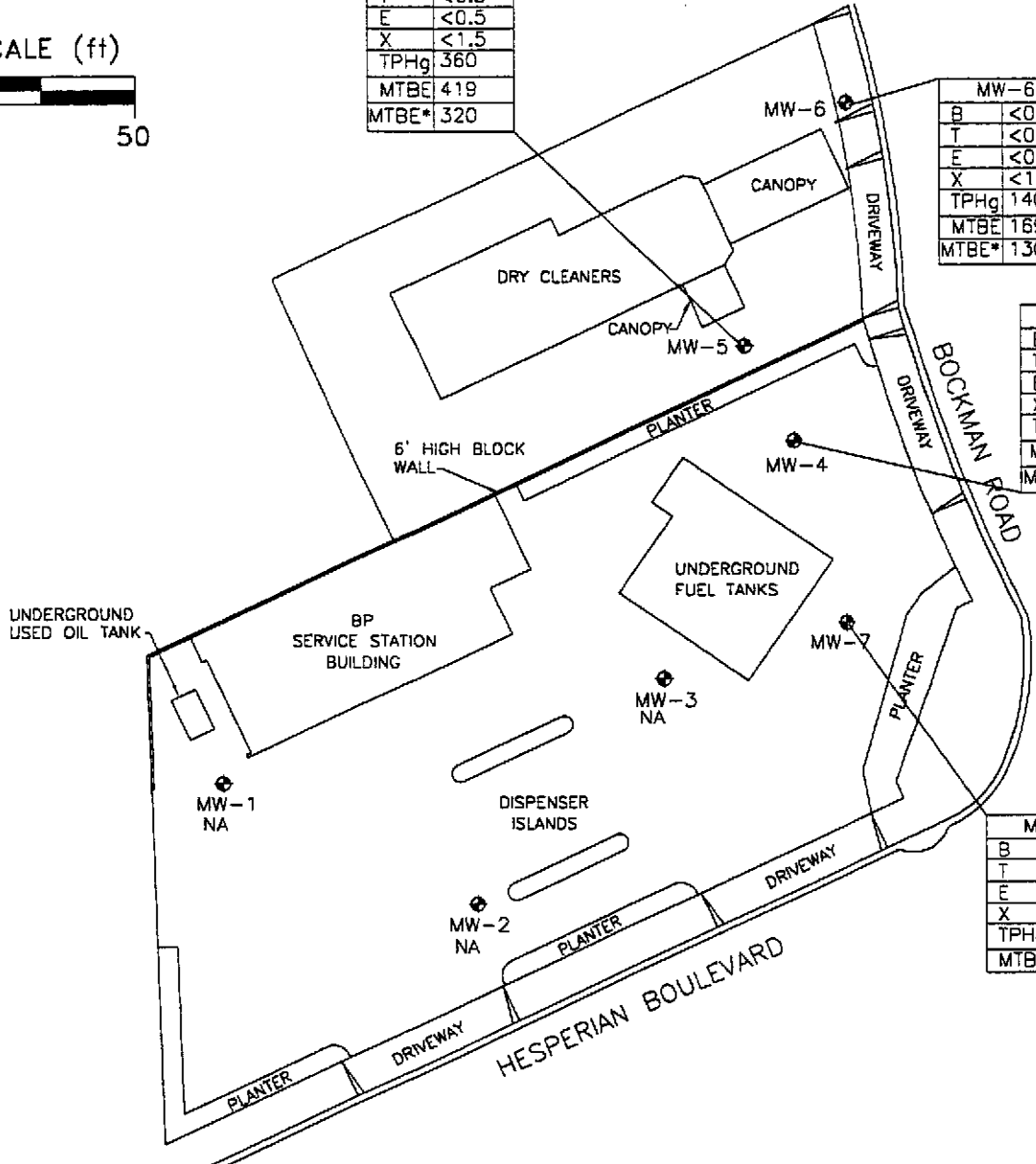


MW-5	
B	<0.5
T	<0.5
E	<0.5
X	<1.5
TPHg	360
MTBE	419
MTBE*	320

MW-6	
B	<0.5
T	<0.5
E	<0.5
X	<1.5
TPHg	140
MTBE	169
MTBE*	130

MW-4	
B	<0.5
T	<0.5
E	<0.5
X	<1.5
TPHg	99
MTBE	119
MTBE*	91

MW-7	
B	<0.5
T	<0.5
E	<0.5
X	<1.5
TPHg	<50
MTBE	<0.5



EXPLANATION

- ⊕ GROUNDWATER MONITORING WELL
- TPHg TOTAL PETROLEUM HYDROCARBON CALCULATED AS GASOLINE IN PARTS PER BILLION (ppb)
- B BENZENE, ppb
- T TOLUENE, ppb
- E ETHYLBENZENE, ppb
- X XYLENE, ppb
- MTBE METHYL-TERT-BUTYL-ETHER, ppb
- MTBE* MTBE BY 8260
- NA DATA NOT AVAILABLE

Ref. 111107btex.dwg
Basemap from Alisto Engineering Group

PREPARED BY



BP Service Station No. 11107
18501 Hesperian Boulevard
San Lorenzo, California

HYDROCARBON CONCENTRATION MAP,
MAY 17, 2001

FIGURE:

2

PROJECT:

DAC04

Table of Well Data and Analytical Results

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-1	11/04/92	41.07	20.78	20.29	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	2.8	ND	---	PACE
QC-1	(c) 11/04/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
MW-1	02/24/94	41.07	20.70	20.37	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j) ND<5000	1.5	0.9	---	PACE
MW-1	05/12/94	41.07	18.12	22.95	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j) ND<5000	1.0	ND<0.5	7	PACE
MW-1	09/09/94	41.07	21.74	19.33	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j) ND<5000	ND<0.5	ND<0.5	2.3	PACE
MW-1	11/03/94	41.07	20.01	21.06	ND<50	50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j) ND<5000	ND<0.5	ND<0.5	4.3	PACE
MW-1	03/01/95	41.07	17.44	23.63	ND<50	ND<500	ND<50	ND<0.50	ND<0.50	ND<1.0	---	420	0.54	0.3	2.3	ATI
MW-1	06/06/95	41.07	17.55	23.52	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	09/01/95	41.07	18.19	22.88	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	60	---	---	8.8	ATI
MW-1	11/29/95	41.07	18.84	22.23	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	03/23/96	41.07	16.97	24.10	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	9.6	SPL
MW-1	09/05/96	41.07	17.74	23.33	110	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	3.6	SPL
MW-1	03/11/97	41.07	17.62	23.45	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	5.2	SPL
MW-1	12/08/97	41.07	16.30	24.77	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	---	---
MW-1	07/08/98	41.07	16.66	24.41	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	12/07/98	41.07	17.80	23.27	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	01/19/99	41.07	17.18	23.89	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	04/23/99	41.07	17.40	23.67	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	07/20/99	41.07	17.76	23.31	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	02/29/00	41.07	17.17	23.90	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	04/14/00	41.07	17.22	23.85	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	07/24/00	41.07	17.61	23.46	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	10/30/00	41.07	17.76	23.31	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	01/11/01	41.07	17.88	23.19	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	05/17/01	41.07	17.82	23.25	---	---	---	---	---	---	---	---	---	---	---	---

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-2	11/04/92	40.56	20.16	20.40	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
MW-2	02/24/94	40.56	20.12	20.44	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	---	PACE
MW-2	05/12/94	40.56	17.49	23.07	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	7.4	PACE
MW-2	09/09/94	40.56	21.12	19.44	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	2.1	PACE
MW-2	11/03/94	40.56	19.36	21.20	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	4.2	PACE
MW-2	03/01/95	40.56	16.83	23.73	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	2.2	ATI
MW-2	06/06/95	40.56	16.96	23.60	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	09/01/95	40.56	17.54	23.02	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	7.9	ATI
MW-2	11/29/95	40.56	18.19	22.37	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	03/23/96	40.56	16.35	24.21	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	8.5	SPL
MW-2	09/05/96	40.56	17.55	23.01	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	3.2	SPL
MW-2	03/11/97	40.56	16.95	23.61	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	2.9	SPL
MW-2	12/08/97	40.56	16.01	24.55	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	3.0	SPL
MW-2	07/08/98	40.56	16.41	24.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	12/07/98	40.56	17.15	23.41	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	01/19/99	40.56	17.15	23.41	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	04/23/99	40.56	16.89	23.67	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	07/20/99	40.56	17.25	23.31	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	12/30/99	40.56	17.44	23.12	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/29/00	40.56	16.13	24.43	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	04/14/00	40.56	16.88	23.68	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	07/24/00	40.56	17.11	23.45	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	10/30/00	40.56	17.12	23.44	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	01/11/01	40.56	17.28	23.28	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	05/17/01	40.56	17.20	23.36	---	---	---	---	---	---	---	---	---	---	---	---

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-3	11/04/92	40.45	20.23	20.22	760	---	3.7	15	1.9	57	---	---	---	---	---	PACE
MW-3	02/24/94	40.45	20.24	20.21	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	30.66	(j)	---	---	---	PACE
MW-3	05/12/94	40.45	17.61	22.84	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.11	(j)	---	---	7.3	PACE
MW-3	09/09/94	40.45	21.22	19.23	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	2	PACE
MW-3	11/03/94	40.45	19.48	20.97	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10.98	(j)	---	---	3.6	PACE
MW-3	03/01/95	40.45	17.08	23.37	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	1.9	ATI
MW-3	06/06/95	40.45	17.21	23.24	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	09/01/95	40.45	17.69	22.76	200	---	2.7	33	7.2	43	ND<5.0	---	---	---	7.8	ATI
MW-3	09/01/95	40.45	18.29	22.16	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	03/23/96	40.45	16.59	23.86	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	7.3	SPL
MW-3	09/05/96	40.45	17.71	22.74	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	3.2	SPL
MW-3	03/11/97	40.45	17.17	23.28	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	1.5	SPL
MW-3	12/08/97	40.45	16.12	24.33	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	1.9	SPL
MW-3	07/08/98	40.45	16.40	24.05	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/07/98	40.45	17.32	23.13	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	01/19/99	40.45	17.30	23.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	04/23/99	40.45	17.07	23.38	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	07/20/99	40.45	17.47	22.98	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	12/30/99	40.45	17.60	22.85	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	02/29/00	40.45	16.43	24.02	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	04/14/00	40.45	17.09	23.36	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	07/24/00	40.45	17.44	23.01	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	10/30/00	40.45	17.29	23.16	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	01/11/01	40.45	17.49	22.96	---	---	---	---	---	---	---	---	---	---	---	---
MW-3	05/17/01	40.45	17.45	23.00	---	---	---	---	---	---	---	---	---	---	---	---

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-4	11/04/92	39.24	19.18	20.06	900	---	150	4.1	0.8	53	---	---	---	---	---	PACE
MW-4	02/24/94	39.24	19.22	20.02	240	---	110	3.8	1.8	11	1433	(d),(j)	---	---	---	PACE
QC-1	(c) 02/24/94	---	---	---	310	---	95	5.3	2.2	17	1479	(d),(j)	---	---	---	PACE
MW-4	05/12/94	39.24	16.62	22.62	ND<50	---	2.2	1.0	ND<0.5	ND<0.5	862	(d),(j)	---	---	7.3	PACE
QC-1	(c) 05/12/94	---	---	---	430	---	2.6	1.3	ND<0.5	ND<0.5	912	(d),(j)	---	---	---	PACE
MW-4	09/09/94	39.24	20.27	18.97	240	---	9.1	1.3	0.6	2.5	397	(j)	---	---	2.2	PACE
QC-1	(c) 09/09/94	---	---	---	57	---	1.7	ND<0.5	ND<0.5	0.5	83	(j)	---	---	---	PACE
MW-4	11/03/94	39.24	18.46	20.78	250	---	3.1	2.8	1.0	3.3	319	(j)	---	---	3.2	PACE
QC-1	(c) 11/03/94	---	---	---	110	---	2.4	ND<0.5	ND<0.5	ND<0.5	642	(j)	---	---	---	PACE
MW-4	03/01/95	39.24	16.15	23.09	8900	---	1800	26	450	400	---	---	---	---	2.0	ATI
QC-1	(c) 03/01/95	---	---	---	7600	---	1700	25	410	370	---	---	---	---	---	ATI
MW-4	06/06/95	39.24	16.28	22.96	3100	---	(e) 530	25	170	85	---	---	---	---	---	ATI
QC-1	(c) 06/06/95	---	---	---	3000	---	530	27	170	92	---	---	---	---	---	ATI
MW-4	(f) 09/01/95	39.24	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/29/95	39.24	17.31	21.93	ND<50	---	1.8	ND<0.50	ND<0.50	ND<1.0	440	---	---	---	3.2	ATI
QC-1	(c) 11/29/95	---	---	---	ND<50	---	1.5	ND<0.50	ND<0.50	ND<1.0	490	---	---	---	---	ATI
MW-4	03/23/96	39.24	15.74	23.50	2700	---	480	ND<25	180	176	13000	---	---	---	7.8	SPL
MW-4	09/05/96	39.24	16.75	22.49	1100	---	ND<12	ND<25	ND<25	ND<25	3200	---	---	---	4.0	SPL
MW-4	03/11/97	39.24	16.10	23.14	2400	---	46	ND<10	66	106	3400	---	---	---	4.0	SPL
MW-4	12/08/97	39.24	15.96	23.28	590	---	11	ND<1.0	ND<1.0	ND<1.0	1200	---	---	---	4.4	SPL
QC-1	(c) 12/08/97	---	---	---	620	---	11	ND<1.0	ND<1.0	ND<1.0	1100	---	---	---	---	SPL
MW-4	07/08/98	39.24	16.28	22.96	1700	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	1200	---	---	---	3.9	SPL
QC-1	(c) 07/08/98	---	---	---	1600	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	1100	---	---	---	---	SPL
MW-4	12/07/98	39.24	16.47	22.77	530	---	ND<2.5	ND<5.0	ND<5.0	ND<5.0	680/910	(h)	---	---	---	SPL
MW-4	01/19/99	39.24	16.40	22.84	570	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	660	---	---	---	---	SPL
MW-4	04/23/99	39.24	16.17	23.07	ND<50	---	ND<1.0	ND<1.0	1.8	1.3	1100/810	(h)	---	---	---	SPL
MW-4	07/20/99	39.24	16.39	22.85	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	480	---	---	---	---	SPL
MW-4	12/30/99	39.24	16.56	22.68	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	410	---	---	---	---	PACE
MW-4	02/29/00	39.24	15.69	23.55	78	(i)	2.0	ND<0.5	0.77	2.8	1200	---	---	---	---	PACE
MW-4	04/14/00	39.24	16.21	23.03	300	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	800	---	---	---	---	PACE
MW-4	07/24/00	39.24	16.50	22.74	130	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	270	---	---	---	---	PACE
MW-4	10/30/00	39.24	16.35	22.89	73	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	210	---	---	---	---	PACE
MW-4	01/11/01	39.24	16.46	22.78	120	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	176	---	---	---	---	PACE
MW-4	05/17/01	39.24	16.40	22.84	99	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	119	---	---	---	---	PACE

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-5	06/06/95	39.07	16.16	22.91	1100	---	(e) 42	ND<2.5	15	4.0	---	---	---	---	---	ATI
MW-5	09/01/95	39.07	16.63	22.44	1600	---	55	ND<2.5	15	8.0	1200	---	---	---	7.4	ATI
QC-1	(c) 09/01/95	---	---	---	1200	---	64	ND<2.5	14	3.1	---	---	---	---	---	ATI
MW-5	11/29/95	39.07	17.19	21.88	2300	---	140	4.0	36	11	1500	---	---	---	4.1	ATI
MW-5	03/23/96	39.07	15.54	23.53	90	---	2.8	ND<1	ND<1	ND<1	1500	---	---	---	7.5	SPL
MW-5	09/05/96	39.07	16.72	22.35	2300	---	5.1	ND<1.0	ND<1.0	ND<1.0	3300	---	---	---	3.2	SPL
QC-1	(c) 09/05/96	---	---	---	2000	---	4.9	ND<1.0	ND<1.0	ND<1.0	2900	---	---	---	---	SPL
MW-5	03/11/97	39.07	16.12	22.95	470	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	580	---	---	---	3.0	SPL
QC-1	(c) 03/11/97	---	---	---	460	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	540	---	---	---	---	SPL
MW-5	12/08/97	39.07	15.85	23.22	370	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	840	---	---	---	3.0	SPL
MW-5	07/08/98	39.07	16.11	22.96	430	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	330	---	---	---	2.5	SPL
MW-5	12/07/98	39.07	16.27	22.80	220	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	290/410	(h)	---	---	---	SPL
MW-5	01/19/99	39.07	16.31	22.76	490	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	490/440	(h)	---	---	---	SPL
MW-5	04/23/99	39.07	16.00	23.07	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	310/210	(h)	---	---	---	SPL
MW-5	07/20/99	39.07	16.36	22.71	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	470	---	---	---	---	SPL
MW-5	12/30/99	39.07	16.53	22.54	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	550	---	---	---	---	PACE
MW-5	02/29/00	39.07	15.45	23.62	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	280	---	---	---	---	PACE
MW-5	04/14/00	39.07	16.10	22.97	81	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	240	---	---	---	---	PACE
MW-5	07/24/00	39.07	16.50	22.57	250	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	570	---	---	---	---	PACE
MW-5	10/30/00	39.07	16.23	22.84	140	---	ND<0.5	0.7	ND<0.5	1.1	360	---	---	---	---	PACE
MW-5	01/11/01	39.07	16.41	22.66	420	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	585	---	---	---	---	PACE
MW-5	05/17/01	39.07	16.45	22.62	360	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	419	---	---	---	---	PACE

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-6	03/01/95	38.46	15.66	22.80	270	---	11	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	1.6	ATI
MW-6	06/06/95	38.46	15.82	22.64	220	---	(e) 2.3	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	ATI
MW-6	09/01/95	38.46	16.25	22.21	780	---	ND<2.5	ND<2.5	ND<2.5	ND<5.0	2800	---	---	---	7.5	ATI
MW-6	11/29/95	38.46	16.80	21.66	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1100	---	---	---	3.9	ATI
MW-6	03/23/96	38.46	15.27	23.19	50	---	ND<0.5	ND<1	ND<1	ND<1	910	---	---	---	8.0	SPL
MW-6	09/05/96	38.46	16.30	22.16	4400	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	7400	---	---	---	3.0	SPL
MW-6	03/11/97	38.46	15.75	22.71	1100	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2000	---	---	---	3.1	SPL
MW-6	12/08/97	38.46	15.51	22.95	150	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	140	---	---	---	3.4	SPL
MW-6	07/08/98	38.46	15.78	22.68	370	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	250	---	---	---	3.6	SPL
MW-6	12/07/98	38.46	15.95	22.51	440	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	630/820	(h)	---	---	---	---
MW-6	01/19/99	38.46	15.97	22.49	950	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	950/810	(h)	---	---	---	SPL
MW-6	04/23/99	38.46	15.74	22.72	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	310/220	(h)	---	---	---	SPL
MW-6	07/20/99	38.46	16.12	22.34	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	1300	---	---	---	---	SPL
MW-6	12/30/99	38.46	16.16	22.30	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	360	---	---	---	---	PACE
MW-6	02/29/00	38.46	15.08	23.38	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	340	---	---	---	---	PACE
MW-6	04/14/00	38.46	15.82	22.64	90	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	220	---	---	---	---	PACE
MW-6	07/24/00	38.46	16.03	22.43	240	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	540	---	---	---	---	PACE
MW-6	10/30/00	38.46	15.83	22.63	120	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	380	---	---	---	---	PACE
MW-6	01/11/01	38.46	16.00	22.46	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.69	---	---	---	---	PACE
MW-6	05/17/01	38.46	16.05	22.41	140	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	100	---	---	---	---	PACE

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (b) (ug/L)	TPH-D (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	TOG (ug/L)	1,1,1-TCA (ug/L)	PCE (ug/L)	DO (ppm)	LAB
MW-7	03/01/95	39.50	16.21	23.29	1400	---	14	ND<1.0	14	27	---	---	---	---	1.8	ATI
MW-7	06/06/95	39.50	16.34	23.16	540	---	(e) 5.5	ND<0.50	15	1.1	---	---	---	---	---	ATI
MW-7	09/01/95	39.50	16.74	22.76	190	---	2.8	ND<0.50	5.0	ND<1.0	10	---	---	---	7.5	ATI
MW-7	11/29/95	39.50	17.33	22.17	230	---	31	ND<0.50	3.8	1.9	ND<5.0	---	---	---	4.6	ATI
MW-7	03/23/96	39.50	15.86	23.64	ND<50	---	5.0	ND<1	ND<1	ND<1	330	---	---	---	7.2	SPL
QC-1 (c)	03/23/96	---	---	---	60	---	7.6	ND<1	ND<1	ND<1	360	---	---	---	---	SPL
MW-7	09/05/96	39.50	16.80	22.70	200	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	430	---	---	---	3.1	SPL
MW-7	03/11/97	39.50	18.32	21.18	120	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	140	---	---	---	4.7	SPL
MW-7	12/08/97	39.50	16.02	23.48	240	---	0.8	ND<1.0	ND<1.0	ND<1.0	200	---	---	---	5.2	SPL
MW-7	07/08/98	39.50	16.32	23.18	270	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	170	---	---	---	4.8	SPL
MW-7	12/07/98	39.50	16.43	23.07	100	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	120	---	---	---	---	SPL
MW-7	01/19/99	39.50	16.41	23.09	80	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	80	---	---	---	---	SPL
MW-7	04/23/99	39.50	16.21	23.29	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	20	---	---	---	---	SPL
MW-7	07/20/99	39.50	16.54	22.96	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	24	---	---	---	---	SPL
MW-7	12/30/99	39.50	16.65	22.85	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	---	---	---	---	PACE
MW-7	02/29/00	39.50	15.71	23.79	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.0	---	---	---	---	PACE
MW-7	04/14/00	39.50	16.25	23.25	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.0	---	---	---	---	PACE
MW-7	07/24/00	39.50	16.63	22.87	ND<50	---	1.1	0.5	ND<0.5	ND<0.5	3.1	---	---	---	---	PACE
MW-7	10/30/00	39.50	16.35	23.15	ND<50	---	ND<0.5	ND<0.5	ND<0.5	1.1	ND<0.5	---	---	---	---	PACE
MW-7	01/11/01	39.50	16.52	22.98	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
MW-7	05/17/01	39.50	16.58	22.92	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	11/04/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
QC-2 (g)	11/04/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
QC-2 (g)	02/24/94	---	---	---	---	---	---	---	---	---	ND<5.0	(j)	---	---	---	PACE
QC-2 (g)	03/01/95	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	---	---	---	---	---	PACE
QC-2 (g)	05/12/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	---	PACE
QC-2 (g)	09/09/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	---	PACE
QC-2 (g)	11/03/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	(j)	---	---	---	PACE
QC-2 (g)	06/06/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	ATI
QC-2 (g)	09/01/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	---	ATI
QC-2 (g)	11/29/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	---	ATI
QC-2 (g)	03/23/96	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	---	SPL

Table 1 - Summary of Results of Groundwater Sampling

ADDITIONAL ANALYSES

WELL ID	DATE OF SAMPLING/ MONITORING	1,2-DCA by 8010 (ug/L)	EDB by 8010 (ug/L)	1,2-DCA by 8260 (ug/L)	EDB by 8260 (ug/L)	MTBE by 8260 (ug/L)	DIPE by 8260 (ug/L)	ETBE by 8260 (ug/L)	TBA by 8260 (ug/L)	TAME by 8260 (ug/L)
MW-4	07/20/99	ND<1.0	ND<1.0	ND<1.0	ND<1.0	590	ND<10	ND<5.0	ND<500	ND<5.0
MW-4	12/30/99	---	---	ND<5.0	ND<5.0	280	ND<5.0	ND<5.0	---	ND<5.0
MW-4	02/29/00	---	---	ND<20	ND<20	870	ND<20	ND<20	---	ND<20
MW-4	04/14/00	---	---	ND<10	ND<10	730	ND<10	ND<10	---	ND<10
MW-4	07/24/00	---	---	ND<1.0	ND<1.0	390	ND<5.0	ND<5.0	ND<50	ND<5.0
MW-4	10/30/00	---	---	ND<5.0	ND<5.0	160	ND<5.0	ND<5.0	ND<50	ND<5.0
MW-4	01/11/01	---	---	ND<1.0	ND<1.0	170	ND<1.0	ND<1.0	ND<10	ND<1.0
MW-4	05/17/01	---	---	ND<1.0	ND<1.0	91	ND<1.0	ND<1.0	ND<10	ND<1.0
MW-5	07/20/99	---	---	---	---	490	ND<10	ND<10	ND<500	ND<10
MW-5	12/30/99	---	---	---	---	470	ND<10	ND<10	---	ND<10
MW-5	02/29/00	---	---	ND<5.0	ND<5.0	190	ND<5.0	ND<5.0	---	ND<5.0
MW-5	04/14/00	---	---	---	---	200	ND<5.0	ND<5.0	---	ND<5.0
MW-5	07/24/00	---	---	---	---	630	ND<5.0	ND<5.0	ND<50	ND<5.0
MW-5	10/30/00	---	---	---	---	260	ND<10	ND<10	ND<100	ND<10
MW-5	01/11/01	---	---	ND<1.0	ND<1.0	540	ND<1.0	ND<1.0	110	ND<1.0
MW-5	05/17/01	---	---	---	---	320	ND<1.0	ND<1.0	31	ND<1.0
MW-6	07/20/99	---	---	---	---	1400	ND<10	ND<10	ND<500	ND<10
MW-6	12/30/99	---	---	---	---	300	ND<5.0	ND<5.0	---	ND<5.0
MW-6	02/29/00	---	---	ND<5.0	ND<5.0	240	ND<5.0	ND<5.0	---	ND<5.0
MW-6	04/14/00	---	---	---	---	200	ND<5.0	ND<5.0	---	ND<5.0
MW-6	07/24/00	---	---	---	---	600	ND<5.0	ND<5.0	62	ND<5.0
MW-6	10/30/00	---	---	---	---	260	ND<10	ND<10	ND<100	ND<10
MW-6	01/11/01	---	---	---	---	2.4	ND<1.0	ND<1.0	ND<10	ND<1.0
MW-6	05/17/01	---	---	---	---	130	ND<1.0	ND<1.0	ND<10	ND<1.0

Table 1 - Summary of Results of Groundwater Sampling

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
TOG	Total oil and grease
1,1,1-TCA	1,1,1-Trichloroethane
PCE	Tetrachloroethene
1,2-DCA	1,2-Dichloroethane
EDB	1,2-Dibromoethane
DIPE	Di-isopropyl Ether
ETBE	tert-Butyl Ethyl Ether
TBA	t-Butyl Alcohol
TAME	tert-Amyl Methyl Ether
DO	Dissolved oxygen
ug/L	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
--	Not measured/analyzed/applicable
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories

NOTES:

- (a) Top of casing elevations surveyed relative to an established benchmark with an elevation of 39.95 feet above mean sea level.
- (b) Groundwater elevations in feet above mean sea level.
- (c) Blind duplicate.
- (d) A copy of the documentation for this data is included in Alisto report 10-060-07-001.
- (e) MTBE peak present. See documentation in Appendix C of Alisto report 10-060-07-001.
- (f) Well inaccessible.
- (g) Travel blank.
- (h) MTBE by 8020/8260.
- (i) Gasoline does not include MTBE.
- (j) A copy of the documentation for this data is included in Blaine Tech Services report 010517-C-4. The data for the October 22 and 23, 1992 and November 4, 1992 sampling events has been destroyed.

Analytical Appendix

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

Lab Project Number: 8521481
Client Project ID: BP Site#11107

Attn: Mr. Aidan Metzger
Phone:

Lab Sample No: 851693126 Project Sample Number: 8521481-001 Date Collected: 05/17/01 14:33
Client Sample ID: B(11107) Matrix: Water Date Received: 05/22/01 09:30

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
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GC Volatiles

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
GAS by Mod 8015, Water Method: EPA 8015 Modified Prep Method: EPA 8015 Modified									
Gasoline Range Organics	99.	ug/l	50.	1.0	05/29/01 15:56	WRIC			
1,4-Difluorobenzene (S)	96	%		1.0	05/29/01 15:56	WRIC			
4-Bromofluorobenzene (S)	87	%		1.0	05/29/01 15:56	WRIC	460-00-4		

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
SW8021 Aromatics, Water Method: EPA 8021 Prep Method: See analytical meth									
Benzene	ND	ug/l	0.500	1.0	05/29/01 15:56	WRIC	71-43-2		
Ethylbenzene	ND	ug/l	0.500	1.0	05/29/01 15:56	WRIC	100-41-4		
Toluene	ND	ug/l	0.500	1.0	05/29/01 15:56	WRIC	108-88-3		
Xylene (Total)	ND	ug/l	1.50	1.0	05/29/01 15:56	WRIC	1330-20-7		
Methyl-tert-butyl ether	119.	ug/l	0.500	1.0	05/29/01 15:56	WRIC	1634-04-4		
1,4-Difluorobenzene (S)	98	%		1.0	05/29/01 15:56	WRIC			
4-Bromofluorobenzene (S)	101	%		1.0	05/29/01 15:56	WRIC	460-00-4		

GC/MS Volatiles

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
SW8260 Nonroutine VOCs, Trace Method: EPA 8260 Prep Method: See analytical meth									
Dibromomethane	ND	ug/l	1.0	1.0	05/23/01 19:26	NZAI	74-95-3		
1,2-Dichloroethane	ND	ug/l	1.0	1.0	05/23/01 19:26	NZAI	107-06-2		
Methyl-tert-butyl ether	91.	ug/l	1.0	1.0	05/23/01 19:26	NZAI	1634-04-4		
2-Methyl-2-propanol	ND	ug/l	10.	1.0	05/23/01 19:26	NZAI	75-65-0		
Ethyl-tert-butyl ether	ND	ug/l	1.0	1.0	05/23/01 19:26	NZAI	637-92-3		
Diisopropyl ether	ND	ug/l	1.0	1.0	05/23/01 19:26	NZAI	108-20-3		
tert-Amylmethyl ether	ND	ug/l	1.0	1.0	05/23/01 19:26	NZAI	994-05-8		
Toluene-d8 (S)	100	%		1.0	05/23/01 19:26	NZAI	2037-26-5		
4-Bromofluorobenzene (S)	102	%		1.0	05/23/01 19:26	NZAI	460-00-4		
1,2-Dichloroethane-d4 (S)	88	%		1.0	05/23/01 19:26	NZAI	17060-07-0		

Lab Project Number: 8521481
Client Project ID: BP Site#11107

Lab Sample No: 851693127 Project Sample Number: 8521481-002 Date Collected: 05/17/01 14:53
Client Sample ID: C(11107) Matrix: Water Date Received: 05/22/01 09:30

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limi
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GC Volatiles

GAS by Mod 8015, Water Method: EPA 8015 Modified Prep Method: EPA 8015 Modified
Gasoline Range Organics 360 ug/l 50. 1.0 05/29/01 16:35 WRIC
1,4-Difluorobenzene (S) 98 % 1.0 05/29/01 16:35 WRIC
4-Bromofluorobenzene (S) 87 % 1.0 05/29/01 16:35 WRIC 460-00-4

SW8021 Aromatics, Water Method: EPA 8021 Prep Method: See analytical meth
Benzene ND ug/l 0.500 1.0 05/29/01 16:35 WRIC 71-43-2
Ethylbenzene ND ug/l 0.500 1.0 05/29/01 16:35 WRIC 100-41-4
Toluene ND ug/l 0.500 1.0 05/29/01 16:35 WRIC 108-88-3
Xylene (Total) ND ug/l 1.50 1.0 05/29/01 16:35 WRIC 1330-20-7
Methyl-tert-butyl ether 419. ug/l 0.500 1.0 05/29/01 16:35 WRIC 1634-04-4
1,4-Difluorobenzene (S) 99 % 1.0 05/29/01 16:35 WRIC
4-Bromofluorobenzene (S) 101 % 1.0 05/29/01 16:35 WRIC 460-00-4

GC/MS Volatiles

SW8260 Nonroutine VOCs, Trace Method: EPA 8260 Prep Method: See analytical meth
Methyl-tert-butyl ether 320 ug/l 10. 10.0 05/23/01 18:29 NZAI 1634-04-4 1
2-Methyl-2-propanol 31. ug/l 10. 1.0 05/23/01 18:29 NZAI 75-65-0
Ethyl-tert-butyl ether ND ug/l 1.0 1.0 05/23/01 18:29 NZAI 637-92-3
Diisopropyl ether ND ug/l 1.0 1.0 05/23/01 18:29 NZAI 108-20-3
tert-Amylmethyl ether ND ug/l 1.0 1.0 05/23/01 18:29 NZAI 994-05-8
Toluene-d8 (S) 100 % 1.0 05/23/01 18:29 NZAI 2037-26-5
4-Bromofluorobenzene (S) 102 % 1.0 05/23/01 18:29 NZAI 460-00-4
1,2-Dichloroethane-d4 (S) 87 % 1.0 05/23/01 18:29 NZAI 17060-07-0

Lab Project Number: 8521481

Client Project ID: BP Site#11107

Lab Sample No: 851693128 Project Sample Number: 8521481-003 Date Collected: 05/17/01 15:17
Client Sample ID: D(11107) Matrix: Water Date Received: 05/22/01 09:30

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
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GC Volatiles

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
GAS by Mod 8015. Water Method: EPA 8015 Modified Prep Method: EPA 8015 Modified									
Gasoline Range Organics	140	ug/l	50.	1.0	05/29/01 16:54	WRIC			
1,4-Difluorobenzene (S)	95	%		1.0	05/29/01 16:54	WRIC			
4-Bromofluorobenzene (S)	87	%		1.0	05/29/01 16:54	WRIC	460-00-4		

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
SW8021 Aromatics, Water Method: EPA 8021 Prep Method: See analytical meth									
Benzene	ND	ug/l	0.500	1.0	05/29/01 16:54	WRIC	71-43-2		
Ethylbenzene	ND	ug/l	0.500	1.0	05/29/01 16:54	WRIC	100-41-4		
Toluene	ND	ug/l	0.500	1.0	05/29/01 16:54	WRIC	108-88-3		
Xylene (Total)	ND	ug/l	1.50	1.0	05/29/01 16:54	WRIC	1330-20-7		
Methyl-tert-butyl ether	169.	ug/l	0.500	1.0	05/29/01 16:54	WRIC	1634-04-4		
1,4-Difluorobenzene (S)	98	%		1.0	05/29/01 16:54	WRIC			
4-Bromofluorobenzene (S)	102	%		1.0	05/29/01 16:54	WRIC	460-00-4		

GC/MS Volatiles

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
SW8260 Nonroutine VOCs, Trace Method: EPA 8260 Prep Method: See analytical meth									
Methyl-tert-butyl ether	130	ug/l	1.0	1.0	05/23/01 18:53	NZAI	1634-04-4		
2-Methyl-2-propanol	ND	ug/l	10.	1.0	05/23/01 18:53	NZAI	75-65-0		
Ethyl-tert-butyl ether	ND	ug/l	1.0	1.0	05/23/01 18:53	NZAI	637-92-3		
Diisopropyl ether	ND	ug/l	1.0	1.0	05/23/01 18:53	NZAI	108-20-3		
tert-Amylmethyl ether	ND	ug/l	1.0	1.0	05/23/01 18:53	NZAI	994-05-8		
Toluene-d8 (S)	99	%		1.0	05/23/01 18:53	NZAI	2037-26-5		
4-Bromofluorobenzene (S)	101	%		1.0	05/23/01 18:53	NZAI	460-00-4		
1,2-Dichloroethane-d4 (S)	84	%		1.0	05/23/01 18:53	NZAI	17060-07-0		

Lab Project Number: 8521481

Client Project ID: BP Site#11107

Lab Sample No: 851693129	Project Sample Number: 8521481-004	Date Collected: 05/17/01 14:11
Client Sample ID: A(11107)	Matrix: Water	Date Received: 05/22/01 09:30

Parameters	Results	Units	PRL	Dilution	Analyzed	Analyst	CAS#	Ftnote	Limit
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GC Volatiles

GAS by Mod 8015, Water	Method: EPA 8015 Modified	Prep Method: EPA 8015 Modified
Gasoline Range Organics	ND ug/l 50.	1.0 05/29/01 17:14 WRIC
1,4-Difluorobenzene (S)	96 %	1.0 05/29/01 17:14 WRIC
4-Bromofluorobenzene (S)	86 %	1.0 05/29/01 17:14 WRIC 460-00-4

SW8021 Aromatics, Water	Method: EPA 8021	Prep Method: See analytical meth
Benzene	ND ug/l 0.500	1.0 05/29/01 17:14 WRIC 71-43-2
Ethylbenzene	ND ug/l 0.500	1.0 05/29/01 17:14 WRIC 100-41-4
Toluene	ND ug/l 0.500	1.0 05/29/01 17:14 WRIC 108-88-3
Xylene (Total)	ND ug/l 1.50	1.0 05/29/01 17:14 WRIC 1330-20-7
Methyl-tert-butyl ether	ND ug/l 0.500	1.0 05/29/01 17:14 WRIC 1634-04-4
1,4-Difluorobenzene (S)	98 %	1.0 05/29/01 17:14 WRIC
4-Bromofluorobenzene (S)	101 %	1.0 05/29/01 17:14 WRIC 460-00-4



Pace Analytical Services, Inc.

900 Gemini Avenue

Houston, TX 77058

Phone: 281.488.1810

Fax: 281.488.4661

Lab Project Number: 8521481

Client Project ID: BP Site#11107

PARAMETER FOOTNOTES

ND Not Detected

NC Not Calculable

PRL Pace Reporting Limit

(S) Surrogate

[1] The sample was diluted due to the presence of high levels of target analytes resulting in elevated reporting limits.

QUALITY CONTROL DATA

Lab Project Number: 8521481

Client Project ID: BP Site#11107

QC Batch: 53228

QC Batch Method: See analytical meth

Analysis Method: EPA 8021

Analysis Description: SW8021 Aromatics, Water

Associated Lab Samples: 851693126

851693127

851693128

851693129

METHOD BLANK: 851694081

Associated Lab Samples:

	851693126	851693127	851693128	851693129
Parameter	Units	Method Blank Result	PRL	Footnotes
Benzene	ug/l	ND	0.5	
Ethylbenzene	ug/l	ND	0.5	
Toluene	ug/l	ND	0.5	
Xylene (Total)	ug/l	ND	1.5	
Methyl-tert-butyl ether	ug/l	ND	0.5	
1,4-Difluorobenzene (S)	%	98		
4-Bromofluorobenzene (S)	%	100		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851694083 851694084

Parameter	Units	851693126		Matrix	Matrix	Matrix	Matrix	RPD	Footnotes
		851693126	Spike Conc.	Spike Result	Spike % Rec	Sp. Dup. Result	Dup % Rec		
Benzene	ug/l	0	50.00	41.42	83	43.53	87	5	
Ethylbenzene	ug/l	0	50.00	47.62	95	49.45	99	4	
Toluene	ug/l	0	50.00	46.19	92	47.24	94	2	
Xylene (Total)	ug/l	0	100.00	96.04	96	95.43	95	1	
Methyl-tert-butyl ether	ug/l	119.1	50.00	147.9	58	160.3	82	8	
1,4-Difluorobenzene (S)					101		101		
4-Bromofluorobenzene (S)					101		102		

LABORATORY CONTROL SAMPLE: 851694082

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Benzene	ug/l	50	43.81	88	
Ethylbenzene	ug/l	50	51.15	102	
Toluene	ug/l	50	49.54	99	
Xylene (Total)	ug/l	100	104.9	105	

Date: 05/30/01

Page: 6

Lab Project Number: 8521481
Client Project ID: BP Site#11107

LABORATORY CONTROL SAMPLE: 851694082

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Methyl-tert-butyl ether	ug/l	50	45.68	91	
1,4-Difluorobenzene (S)				100	
4-Bromofluorobenzene (S)				103	

QC Batch: 53230
Analysis Method: EPA 8015 Modified
Associated Lab Samples: 851693126

Lab Project Number: 8521481
Client Project ID: BP Site#11107

QC Batch Method: EPA 8015 Modified
Analysis Description: GAS by Mod 8015, Water
851693127 851693128 851693129

METHOD BLANK: 851694089
Associated Lab Samples:

Parameter	Units	851693126	851693127 Method Blank Result	851693128 PRL	851693129 Footnotes
Gasoline Range Organics	ug/l		ND	50	
1,4-Difluorobenzene (S)	%		97		
4-Bromofluorobenzene (S)	%		87		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851694411 851694412

Parameter	Units	851693129	Spike Conc.	Matrix Spike Result	Spike % Rec	Matrix Sp. Dup. Result	Spike Dup % Rec	RPD	Footnotes
Gasoline Range Organics	ug/l	14.99	1000.00	996.4	98	1040	102	4	
1,4-Difluorobenzene (S)					99		98		
4-Bromofluorobenzene (S)					90		91		

LABORATORY CONTROL SAMPLE: 851694090

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
Gasoline Range Organics	ug/l	1000	1134	113	
1,4-Difluorobenzene (S)				103	
4-Bromofluorobenzene (S)				96	

QC Batch: 53147
Analysis Method: EPA 8260
Associated Lab Samples: 851693126

Lab Project Number: 8521481
Client Project ID: BP Site#11107

QC Batch Method: See analytical meth
Analysis Description: SW8260 Nonroutine VOCs, Trace
851693127 851693128

METHOD BLANK: 851693798
Associated Lab Samples:

Parameter	Units	851693126	851693127	851693128	Footnotes
			Method Blank Result	PRL	
Dibromomethane	ug/l		ND	1	
1,2-Dichloroethane	ug/l		ND	1	
Methyl-tert-butyl ether	ug/l		ND	1	
2-Methyl-2-propanol	ug/l		ND	10	
Ethyl-tert-butyl ether	ug/l		ND	1	
Diisopropyl ether	ug/l		ND	1	
tert-Amylmethyl ether	ug/l		ND	1	
Toluene-d8 (S)	%		100		
4-Bromofluorobenzene (S)	%		100		
1,2-Dichloroethane-d4 (S)	%		100		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 851693800 851693801

Parameter	Units	851693126	Spike Conc.	Matrix	Spike % Rec	Matrix	Spike % Rec	RPD	Footnotes
				Spike Result		Sp. Dup. Result			
Methyl-tert-butyl ether	ug/l	91.21	50.00	158.6	135	165.8	149	4	
2-Methyl-2-propanol	ug/l	0	250.00	339.9	136	302.2	121	12	
Ethyl-tert-butyl ether	ug/l	0	50.00	49.77	100	50.92	102	2	
Diisopropyl ether	ug/l	0	50.00	53.53	107	55.28	111	3	
tert-Amylmethyl ether	ug/l	0	50.00	52.26	104	53.58	107	2	
Toluene-d8 (S)					102		101		
4-Bromofluorobenzene (S)					98		99		
1,2-Dichloroethane-d4 (S)					98		101		

Lab Project Number: 8521481

Client Project ID: BP Site#11107

LABORATORY CONTROL SAMPLE: 851693799

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,2-Dichloroethane	ug/l	50	52.20	104	
Methyl-tert-butyl ether	ug/l	50	44.98	90	
2-Methyl-2-propanol	ug/l	250	233.6	93	
Ethyl-tert-butyl ether	ug/l	50	46.76	94	
Diisopropyl ether	ug/l	50	50.42	101	
tert-Amylmethyl ether	ug/l	50	47.24	94	
Toluene-d8 (S)				97	
4-Bromofluorobenzene (S)				96	
1,2-Dichloroethane-d4 (S)				98	

LABORATORY CONTROL SAMPLE: 851694404

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,2-Dichloroethane	ug/l	50	47.85	96	
Methyl-tert-butyl ether	ug/l	50	42.13	84	
2-Methyl-2-propanol	ug/l	250	239.7	96	
Ethyl-tert-butyl ether	ug/l	50	42.19	84	
Diisopropyl ether	ug/l	50	45.40	91	
tert-Amylmethyl ether	ug/l	50	43.02	86	
Toluene-d8 (S)				99	
4-Bromofluorobenzene (S)				96	
1,2-Dichloroethane-d4 (S)				91	

LABORATORY CONTROL SAMPLE: 851694452

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
1,2-Dichloroethane	ug/l	50	42.48	85	
Methyl-tert-butyl ether	ug/l	50	42.82	86	
2-Methyl-2-propanol	ug/l	100	85.88	86	
Ethyl-tert-butyl ether	ug/l	50	46.18	92	
Diisopropyl ether	ug/l	50	49.03	98	
tert-Amylmethyl ether	ug/l	50	45.36	91	
Toluene-d8 (S)				101	

Lab Project Number: 8521481
Client Project ID: BP Site#11107

LABORATORY CONTROL SAMPLE: 851694452

Parameter	Units	Spike Conc.	LCS Result	Spike % Rec	Footnotes
4-Bromofluorobenzene (S)				102	
1,2-Dichloroethane-d4 (S)				90	



Pace Analytical Services, Inc.

900 Gemini Avenue
Houston, TX 77058

Phone: 281.488.1810

Fax: 281.488.4661

Lab Project Number: 8521481

Client Project ID: BP Site#11107

QUALITY CONTROL DATA PARAMETER FOOTNOTES

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

- ND Not Detected
- NC Not Calculable
- PRL Pace Reporting Limit
- RPD Relative Percent Difference
- (S) Surrogate



CHAIN OF CUSTODY

CONSULTANT'S NAME Blaine Tech Services, Inc.		CONSULTANT'S ADDRESS 1680 Rogers Ave., San Jose CA 95112	
BP SITE NUMBER 11107	BP SITE / FACILITY ADDRESS 18501 Hesperian, San Lorenzo		CONSULTANT PROJECT NUMBER 010517-24
CONSULTANT PROJECT MANAGER Scott Boor		PHONE NUMBER (408) 573-0555 x 223	FAX NUMBER (408) 573-7771
CONSULTANT CONTRACT NUMBER J589268			
BP CONTACT Scott Hooton	BP ADDRESS 295 SW 41st Street, Suite N, Renton WA	PHONE NUMBER (425) 251-0689	FAX NO. (425) 251-0736
LAB CONTACT Pace - Paula Kirtley	LABORATORY ADDRESS 900 Gemini Ave., Houston, TX 77058	PHONE NUMBER (281) 488-1810	FAX NO. (281) 488-4661
BP CONTACT REQUESTING RUSH TAT (Print BP Contact Name)	RUSH REQUESTED OF (Print Consultant Contact Name)	DATE/TIME	SHIPMENT DATE
			SHIPMENT METHOD

TAT: 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	LAB SAMPLE #	TPH-G + BTEX / MTBE (8015M) (8020)	TPH-D (8015M)	FUEL OXYGENATES (8280)	1,2 DCA + EDB (8010)									COMMENTS	
				NO.	TYPE (VOL)																
XXXXXX B	5/17	1433	W	9	40ML	851693126		X		X	X										
XXXXXX C	↓	1453	↓	6	40ML		27	X		X											
XXXXXX D	↓	1517	↓	6	40ML		28	X		X											
XXXXXX A	↓	1411	↓	3	40ML		29	X													

SAMPLED BY (Please Print Name) <i>Hank Castro</i>				SAMPLED BY (Signature) <i>Hank Castro</i>				ADDITIONAL COMMENTS			
RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY / AFFILIATION (Print Name / Signature)	DATE	TIME						
<i>Hank Castro</i>	5/21/01	1600	<i>Airborne Express</i> <i>Clayton Pao</i>	5/21/01	1600						
				5/22/01	0930						



Scott Hooton
 BP Oil
 295 SW 41st St.
 Renton, WA 98055

28-Nov-00

EPA 8020 Chromatogram Review

Site - 11107

Pace Sample #	Matrix / Units	Sample ID	Date		Inst.	MTBE
			Sampled	Date Run		
70 0254272	Water / ug/L	MW-1	2/24/94	3/1/94	70-Q-1Lease	<5.0
70 0254280	Water / ug/L	MW-2	2/24/94	3/1/94	70-Q-1Lease	<5.0
70 0254299	Water / ug/L	MW-3	2/24/94	3/1/94	70-Q-1Lease	30.66
70 0254302	Water / ug/L	MW-4	2/24/94	3/1/94	70-Q-1Lease	1433
70 0254310	Water / ug/L	QC-1	2/24/94	3/1/94	70-Q-1Lease	1479
70 0254329	Water / ug/L	QC-2	2/24/94	3/1/94	70-Q-1Lease	<5.0
70 0320550	Water / ug/L	MW-1	5/12/94	5/16/94	70-Q-1Lease	<5.0
70 0320585	Water / ug/L	MW-2	5/12/94	5/16/94	70-Q-1Lease	<5.0
70 0320593	Water / ug/L	MW-3	5/12/94	5/16/94	70-Q-1Lease	7.11
70 0320607	Water / ug/L	MW-4	5/12/94	5/17/94	70-Q-1Lease	862
70 0320615	Water / ug/L	QC-1	5/12/94	5/17/94	70-Q-1Lease	912
70 0320631	Water / ug/L	QC-2	5/12/94	5/16/94	70-Q-1Lease	<5.0
70 0393027	Water / ug/L	S-1 MW1	9/9/94	9/17/94	70-Q-8	<5.0
70 0393035	Water / ug/L	S-2 MW2	9/9/94	9/17/94	70-Q-8	<5.0
70 0393043	Water / ug/L	S-3 MW3	9/9/94	9/17/94	70-Q-8	<5.0
70 0393051	Water / ug/L	S-4 MW4	9/9/94	9/17/94	70-Q-8	397
70 0393060	Water / ug/L	S-5 QC-1	9/9/94	9/17/94	70-Q-8	83
70 0393078	Water / ug/L	S-6 QC-2	9/9/94	9/17/94	70-Q-8	<5.0
70 0436150	Water / ug/L	S-1 MW1	11/3/94	11/7/94	70-Q-8	<5.0
70 0436168	Water / ug/L	S-2 MW2	11/3/94	11/7/94	70-Q-8	<5.0
70 0436176	Water / ug/L	S-3 MW3	11/3/94	11/8/94	70-Q-8	10.98
70 0436184	Water / ug/L	S-4 MW4	11/3/94	11/7/94	70-Q-8	319
70 0436192	Water / ug/L	S-5 QC-1	11/3/94	11/9/94	70-Q-4	642
70 0436206	Water / ug/L	S-6	11/3/94	11/7/94	70-Q-8	<5.0

The data for the following sampling events has been destroyed:

- October 22, 1992
- October 23, 1992
- November 4, 1992





Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

For all samples above, the MTBE results were quantitated against an actual MTBE standard. However, the results should still be considered estimated because the instrument may not have been calibrated for MTBE at the time of analysis and the identification of MTBE was not confirmed.

SEQUOIA ANALYTICAL

Peggy Penner
Laboratory Director



Field Data Sheets

WELL GAUGING DATA

Project # 010517-04 Date 5-17-01 Client BP

Site 18501 Herperian Blvd

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					17.82	30.41		C
MW-2						17.20	24.77		C
MW-3						17.45	24.85		C
MW-4		B				16.40	25.00		
MW-5		C				16.45	22.39		
MW-6		D				16.05	24.93		
MW-7	↓	A				16.58	24.26	↓	

BP WELL MONITORING DATA SHEET

Project #: <u>010517-24</u>	Station # <u>11107</u>
Sampler: <u>Hand</u>	Date: <u>5-17-01</u>
Well I.D.: <u>MW-4</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>25.00</u>	Depth to Water: <u>16.40</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 ² * 0.163

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

9
 045

$$\frac{1.3}{1 \text{ Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{3.9}{\text{Calculated Volume}} \text{ Gals.}$$

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1422	72.8	7.1	760	1.3	
1424	72.6	7.0	786	2.6	
1427	72.4	7.0	792	3.9	

Did well dewater? Yes No Gallons actually evacuated: 3.9

Sampling Time: 1433 Sampling Date: 5-17-01

Sample I.D. (Blind): B Laboratory: Pace Other: _____

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: 1,2 DCA FECS by 80108, Fuel Oxygenates by 8260

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>010517-24</u>	Station # <u>1107</u>
Sampler: <u>Hank</u>	Date: <u>5-17-01</u>
Well I.D.: <u>MW-5</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>22.39</u>	Depth to Water: <u>16.45</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 ² * 0.163

Purge Method: Bailer Sampling Method: Bailer

Disposable Bailer Disposable Bailer

Middleburg Extraction Port

Electric Submersible Other: _____

Extraction Pump

Other: _____

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VOAS

<u>0.9</u>	X	<u>3</u>	=	<u>2.7</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1445	72.1	6.7	784	.9	
1446	72.3	6.9	798	1.8	
1447	71.8	6.8	791	2.7	

Did well dewater? Yes No Gallons actually evacuated: 2.7

Sampling Time: 1453 Sampling Date: 5-17-01

Sample I.D. (Blind): C Laboratory: Pace Other: _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: fuel OKYseater by 8260.

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>010517-44</u>	Station # <u>1107</u>
Sampler: <u>Henk</u>	Date: <u>5-17-01</u>
Well I.D.: <u>MW-6</u>	Well Diameter: <u>(2)</u> 3 4 6 8 <u> </u>
Total Well Depth: <u>24.93</u>	Depth to Water: <u>16.05</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 ² * 0.163

Purge Method: Bailer	Sampling Method: Bailer
<input checked="" type="checkbox"/> Disposable Bailer	<input checked="" type="checkbox"/> Disposable Bailer
Middleburg	Extraction Port
Electric Submersible	Other: _____
Extraction Pump	
Other: _____	

$$\frac{6}{0.45} \times \frac{1.4}{\text{Case Volume (Gals.)}} \times \frac{3}{\text{Specified Volumes}} = \frac{4.2}{\text{Calculated Volume}} \text{ Gals.}$$

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1506	71.2	6.6	809	1.4	
1509	71.6	6.7	816	2.8	
1512	71.4	6.7	821	4.2	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>4.2</u>
Sampling Time: <u>1517</u>	Sampling Date: <u>5-17-01</u>
Sample I.D. (Blind): <u>D</u>	Laboratory: <u>Pace</u> Other _____
Analyzed for: <u>TPH-G BTEX MTBE</u> TPH-D	Other: <u>Fuel Oxygenates by #260</u>

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>010517-24</u>	Station # <u>1107</u>
Sampler: <u>Hand</u>	Date: <u>5-17-01</u>
Well I.D.: <u>MW-7</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>24.26</u>	Depth to Water: <u>16.58</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 ² * 0.163

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port Other: _____
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$$\frac{3 \text{ VOLS}}{1.2 \text{ I Case Volume (Gals.)}} \times 3 \text{ Specified Volumes} = 3.6 \text{ Gals. Calculated Volume}$$

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1402	72.3	6.9	701	1.2	
1404	72.2	6.8	689	2.4	
1406	72.3	6.7	686	3.6	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>3.6</u>
Sampling Time: <u>1411</u>	Sampling Date: <u>5-17-01</u>
Sample I.D. (Blind): <u>A</u>	Laboratory: <u>(Pace)</u> Other _____
Analyzed for: <u>(TPH-G BTEX 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