BP OIL

BP Oil Company
Environmental Remediation Management
295 SW 41st Street
Renton, Washington 98055-4931
(425) 251-0667
Fax No (425) 251-0736

March 13, 1999

Alameda County Health Care Services Agency
Attention Ms. Susan Hugo
1131 Harbor Bay Parkway, Ste. 250
Alameda, CA 94502-6577

RE: BP Oil Site No. 11132
3201 35th Street (at I-580)
Oakland, CA

Dear Ms. Hugo:

Enclosed please find a report titled Groundwater Monitoring and Sampling Report, dated 4 March 1999.

The report shows that aromatic petroleum constituents were detected in groundwater samples collected from six of the nine wells sampled this quarter (30 December 1998). The highest benzene concentration (4,700 ug/l) was reported in a sample obtained from well MW-2, located south of the underground storage tanks.

Plans for the coming quarter include product removal and groundwater monitoring.

Please give me a call if you have any questions, comments or concerns regarding this matter. I can be reached at (425) 251-0689.

Sincerely,

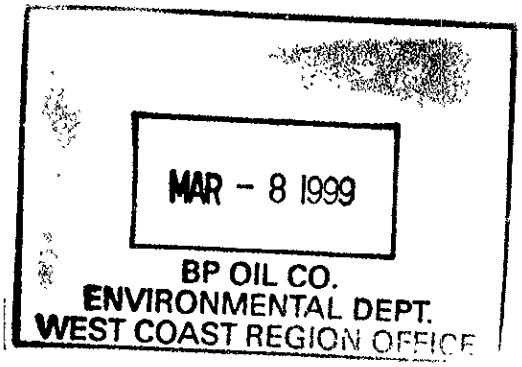
Scott Hooton

attachment

cc: B. Nagle - Alisto
Ade Fagorala- CRWQCB-SFBR
D. Camille - Tosco (w/attachment)

BLAINE
TECH SERVICES INC

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



March 4, 1999

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

4th Quarter 1998 Monitoring at 11132

Fourth Quarter 1998 Groundwater Monitoring
BP Service Station Number 11132
3201 35th Street
Oakland, CA

Monitoring Performed on December 30, 1998

Groundwater Sampling Report **981230-R-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**. 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.

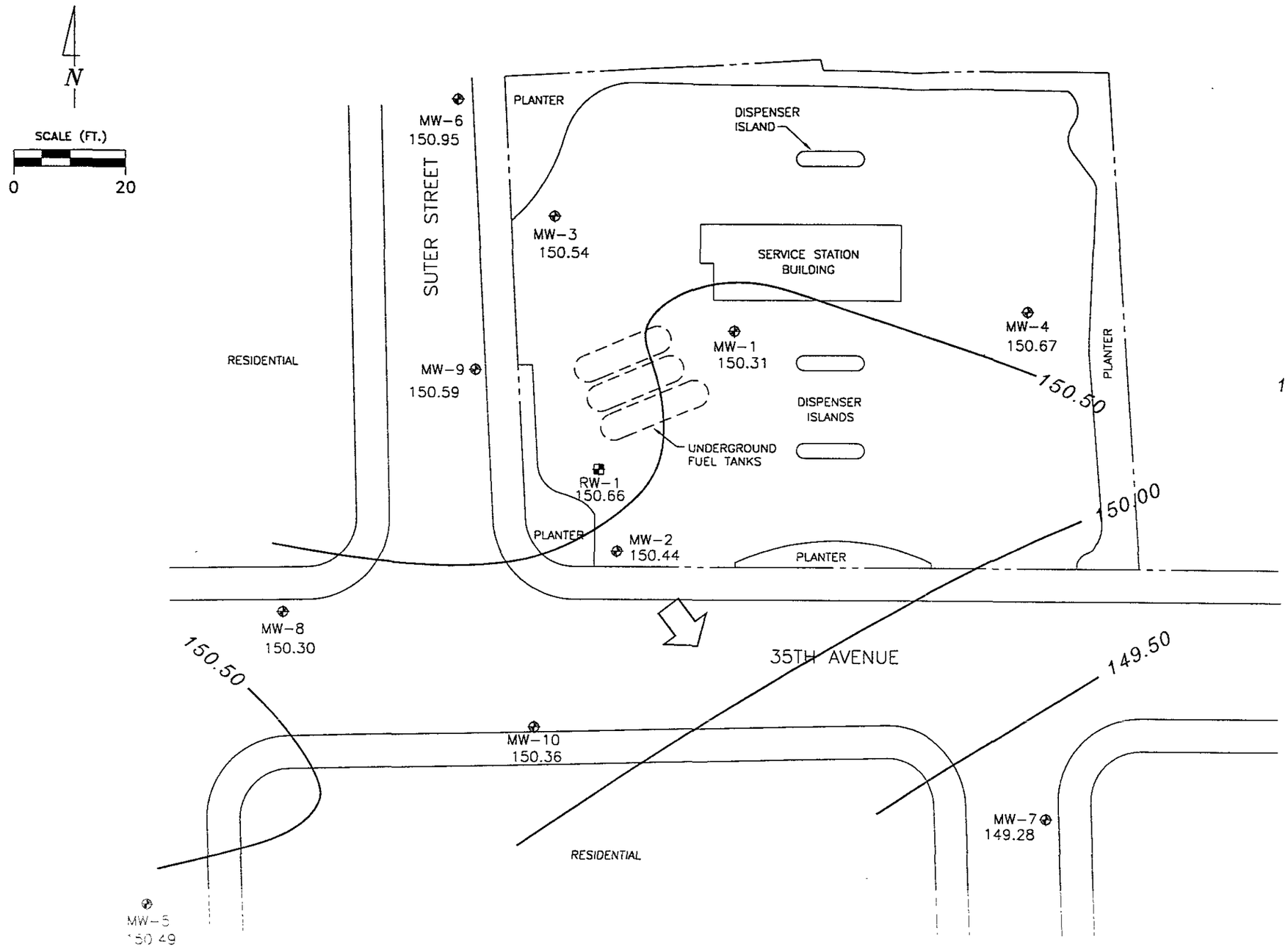
Yours truly,

Francis Thie
Vice President

FPT/ld

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

Professional Engineering Appendix



EXPLANATION

- GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- 150.44 GROUNDWATER ELEVATION (FT, MSL)
- 150.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.006

REGISTERED GEOLOGIST
STEVEN E. KRCIK
No. 4976
3/9/00
STATE OF CALIFORNIA

Ref: 11132bm.dwg
Basemap from Alisto engineering Group

PREPARED BY
RRM
engineering contracting firm

GROUNDWATER ELEVATION CONTOUR MAP, DECEMBER 30, 1998

BP Oil Service Station No 11132
3201 35th Street
Oakland, California

FIGURE: 1
PROJECT: OAC04

N

SCALE (FT.)

0 20

PLANTER

DISPENSER ISLAND

MW-6 NA

SUTER STREET

MW-1	
B	530
T	3200
E	2900
X	16000
TPHg	70000
MTBE	3600

MW-3 NA

SERVICE STATION BUILDING

MW-1

MW-4 NA

PLANTER

RESIDENTIAL

MW-9

MW-9	
B	860
T	1300
E	2400
X	21000
TPHg	83000
MTBE	180

DISPENSER ISLANDS

UNDERGROUND FUEL TANKS

RW-1 NA

PLANTER

MW-2

PLANTER

MW-2	
B	4700
T	3500
E	3700
X	21000
TPHg	95000
MTBE	<250

35TH AVENUE

MW-8

MW-8	
B	460
T	2300
E	2200
X	15000
TPHg	120000
MTBE	150

MW-10

MW-10	
B	3500
T	14000
E	5800
X	50000
TPHg	110000
MTBE	<50

RESIDENTIAL

MW-7 NA

MW-5 NA

EXPLANATION

- GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY 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
NA DATA NOT AVAILABLE

Ref: 11132btex.dwg
Basemap from Alisto Engineering Group

PREPARED BY
RRM
engineering contracting firm

HYDROCARBON CONCENTRATION MAP, DECEMBER 30, 1998

BP Oil Service Station No 11132
3201 35th Street
Oakland, California

FIGURE: 2
PROJECT: DAC04

Table of
Well Data and
Analytical Results

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

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)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-1	07/09/90	169.75	---	0.22	---	---	---	---	---	---	---	---	---
MW-1	12/21/90	169.75	---	0.58	---	---	---	---	---	---	---	---	---
MW-1	03/07/91	169.75	20.59	---	---	---	---	---	---	---	---	---	---
MW-1	06/27/91	169.75	---	0.18	---	---	---	---	---	---	---	---	---
MW-1	09/27/91	169.75	---	0.27	---	---	---	---	---	---	---	---	---
MW-1	12/18/91	169.75	---	0.28	---	---	---	---	---	---	---	---	---
MW-1	04/01/91	169.75	16.51	0.15	153.35	---	---	---	---	---	---	---	---
MW-1	07/03/92	169.75	22.3	0.27	147.65	---	---	---	---	---	---	---	---
MW-1	10/05/92	169.75	23.98	0.24	145.95	---	---	---	---	---	---	---	---
MW-1	01/13/93	169.75	17.03	0.24	152.90	---	---	---	---	---	---	---	---
MW-1	04/23/93	169.75	18.1	0.42	151.97	---	---	---	---	---	---	---	---
MW-1	07/12/93	169.75	22.02	0.49	148.10	---	---	---	---	---	---	---	---
MW-1	10/21/93	169.75	25.12	1.09	145.45	---	---	---	---	---	---	---	---
MW-1	01/21/94	169.75	23.02	0.76	147.30	---	---	---	---	---	---	---	---
MW-1	04/20/94	169.75	24.54	1.8	146.56	---	---	---	---	---	---	---	---
MW-1	08/01/94	169.75	24.11	0.35	145.90	---	---	---	---	---	---	---	---
MW-1	12/23/94	169.75	18.19	0.29	151.78	---	---	---	---	---	---	---	---
MW-1	01/26/95	169.75	16.25	1.1	154.33	---	---	---	---	---	---	---	---
MW-1	06/08/95	169.75	22.92	1.2	147.73	---	---	---	---	---	---	---	---
MW-1	08/22/95	169.75	24.45	0.85	145.94	---	---	---	---	---	---	---	---
MW-1	10/27/95	169.75	25.41	0.69	144.86	---	---	---	---	---	---	---	---
MW-1	01/25/96	169.75	18.2	1.4	152.60	---	---	---	---	---	---	---	---
MW-1	04/19/96	169.75	19.06	1.22	151.61	---	---	---	---	---	---	---	---
MW-1	07/23/96	169.75	22.98	0.89	147.44	---	---	---	---	---	---	---	---
MW-1	11/11/96	169.75	23.99	0.98	146.50	---	---	---	---	---	---	---	---
MW-1	01/21/97	169.75	16.8	0.9	153.63	---	---	---	---	---	---	---	---
MW-1	04/29/97	169.75	21.9	0.85	148.49	---	---	---	---	---	---	---	---
MW-1	04/30/97	169.75	---	---	---	100000	3600	8000	4000	21300	7700	5.2	SPL
QC-1 (c)	04/30/97	---	---	---	---	92000	3500	8100	4400	23800	6900	---	SPL
MW-1	08/21/97	169.75	23.4	0.87	147.00	140000	3000	8500	3900	22100	5700	5.3	SPL
QC-1 (c)	08/21/97	---	---	---	---	120000	3200	8100	3800	19600	5200	---	SPL
MW-1	11/05/97	169.75	23.7	0.54	146.46	68000	6200	4400	3300	14300	8000	4.7	SPL
QC-1 (c)	11/05/97	---	---	---	---	88000	7300	4800	3600	16900	8200	---	SPL
MW-1	02/03/98	169.75	13.63	0.32	156.36	---	---	---	---	---	---	---	---
MW-1	02/04/98	---	---	---	---	190000	2200	10000	5600	32000	ND<10000	5.3	SPL
QC-1 (c)	02/04/98	---	---	---	---	160000	2300	8400	5000	29400	ND<10000	---	SPL
MW-1	05/28/98	169.75	18.03	0.17	151.85	87000	980	3900	3600	19000	2900	3.8	SPL
MW-1	12/30/98	169.75	19.50	0 08	150.31	70000	530	3200	2900	16000	3600	---	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

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)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-2	07/09/90	168.14	---	0.1	---	---	---	---	---	---	---	---	---
MW-2	12/21/90	168.14	---	0.48	---	---	---	---	---	---	---	---	---
MW-2	03/07/91	168.14	19.18	---	---	---	---	---	---	---	---	---	---
MW-2	06/27/91	168.14	---	0.19	---	---	---	---	---	---	---	---	---
MW-2	09/27/91	168.14	---	0.15	---	---	---	---	---	---	---	---	---
MW-2	12/18/91	168.14	---	0.36	---	---	---	---	---	---	---	---	---
MW-2	04/01/91	168.14	15.21	0.1	153.01	---	---	---	---	---	---	---	---
MW-2	07/03/92	168.14	20.93	0.03	147.23	---	---	---	---	---	---	---	---
MW-2	10/05/92	168.14	22.74	0.21	145.56	---	---	---	---	---	---	---	---
MW-2	01/13/93	168.14	15.55	0.02	152.61	---	---	---	---	---	---	---	---
MW-2	04/23/93	168.14	16.54	0.21	151.76	---	---	---	---	---	---	---	---
MW-2	07/12/93	168.14	20.46	0.06	147.73	---	---	---	---	---	---	---	---
MW-2	10/21/93	168.14	24.91	0.31	143.46	---	---	---	---	---	---	---	---
MW-2	01/21/94	168.14	21.2	---	146.94	---	---	---	---	---	---	---	---
MW-2	04/20/94	168.14	22.44	---	145.70	1800	140	370	54	290	1.7	1.7	PACE
MW-2	08/01/94	168.14	22.24	0.04	145.93	---	---	---	---	---	---	---	---
MW-2	12/23/94	168.14	16.25	0.03	151.91	---	---	---	---	---	---	---	---
MW-2	01/26/95	168.14	14.55	0.39	153.88	---	---	---	---	---	---	---	---
MW-2	06/08/95	168.14	21.18	0.43	147.28	---	---	---	---	---	---	---	---
MW-2	08/22/95	168.14	22.76	0.36	145.65	---	---	---	---	---	---	---	---
MW-2	10/27/95	168.14	23.61	0.3	144.76	---	---	---	---	---	---	---	---
MW-2	01/25/96	168.14	15.95	0.15	152.30	---	---	---	---	---	---	---	---
MW-2	04/19/96	168.14	17.33	0.07	150.86	---	---	---	---	---	---	---	---
MW-2	07/23/96	168.14	21.25	0.05	146.93	---	---	---	---	---	---	---	---
MW-2	11/11/96	168.14	22.27	0.01	145.88	---	---	---	---	---	---	---	---
MW-2	01/21/97	168.14	15.19	0.01	152.96	---	---	---	---	---	---	---	---
MW-2	04/29/97	168.14	20.22	0.01	147.93	---	---	---	---	---	---	---	---
MW-2	04/30/97	168.14	---	---	---	130000	4600	15000	6000	37000	ND<5000	5.0	SPL
MW-2	08/21/97	168.14	21.74	0.01	146.41	110000	6000	16000	4700	28000	ND<500	4.6	SPL
MW-2	11/05/97	168.14	21.61	0.01	146.54	120000	7800	18000	4900	28100	ND<2500	4.6	SPL
MW-2	02/03/98	168.14	11.51	---	156.63	75000	590	1500	1800	12800	ND<2500	4.5	SPL
MW-2	05/28/98	168.14	16.51	---	151.63	79000	3900	3100	3100	18000	900	4.3	SPL
MW-2	12/30/98	168.14	17.70	---	150.44	95000	4700	3500	3700	21000	ND<250	---	SPL
MW-3	07/09/90	167.17	---	---	---	140	5.3	4.6	2.0	3.8	---	---	---
MW-3	12/21/90	167.17	---	---	---	0 19	100	6.0	0.9	27	---	---	---
MW-3	03/07/91	167.17	17.4	---	149.77	0 4	69	22	6.1	57	---	---	---
MW-3	06/27/91	167.17	---	---	---	380	28	26	13	46	---	---	---
MW-3	09/27/91	167.17	---	---	---	0 07	7.9	ND	0 4	1.1	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

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)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-3	12/18/91	167.17	—	—	—	0.26	34	24	0.8	28	—	—	—
MW-3	04/01/91	167.17	13.69	—	153.48	ND	ND	ND	ND	ND	—	—	—
MW-3	07/03/92	167.17	19.59	—	147.58	71	9.4	0.9	5.0	13	—	—	ANA
MW-3	10/05/92	167.17	21.22	—	145.95	67	5 1	1.1	6.1	8.1	—	—	ANA
QC-1 (c)	10/05/92	—	—	—	—	ND<50	2.2	ND<0 5	1.5	2.8	—	—	ANA
MW-3	01/13/93	167.17	13.63	—	153.54	830	50	34	42	89	—	—	PACE
MW-3	04/23/93	167.17	15.02	—	152.15	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-1 (c)	04/23/93	—	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-3	07/12/93	167.17	19.16	—	148.01	250	12	4.2	12	16	—	—	PACE
MW-3	10/21/93	167.17	21.81	—	145.36	52	4.4	1.4	4.7	3.3	—	—	PACE
QC-1 (c)	10/21/93	—	—	—	—	65	7.4	1.0	6.9	4.2	—	—	PACE
MW-3	01/21/94	167.17	19.94	—	147.23	57	3.0	3 4	3.6	9.0	—	—	PACE
MW-3	04/20/94	167.17	20.24	—	146.93	600	26	23	33	88	—	1.8	PACE
MW-3	08/01/94	167.17	20.74	—	146.43	99	6.2	1.1	4.5	5.2	—	1.4	PACE
QC-1 (c)	08/01/94	—	—	—	—	120	7.7	1.6	5.9	6.7	—	—	PACE
MW-3	12/23/94	167.17	14.7	—	152.47	ND<50	ND<0.5	0.78	ND<0.5	ND<0.5	—	1.7	PACE
QC-1 (c)	12/23/94	—	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-3	01/26/95	167.17	12.89	—	154.28	190	16	0.5	35	24	—	6.6	ATI
MW-3	06/08/95	167.17	19.95	—	147.22	330	21	4.0	34	32	—	7.0	ATI
MW-3	08/22/95	167.17	21.41	—	145.76	150	14	ND<0.50	ND<0.50	1.6	ND<5.0 (d)	6.6	ATI
MW-3	10/27/95	167.17	22.43	—	144.74	—	—	—	—	—	—	—	—
MW-3	10/30/95	167.17	—	—	—	51	2.4	ND<0.50	ND<0.50	ND<1.0	ND<5.0	6.9	ATI
MW-3	01/25/96	167.17	14.03	—	153.14	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	5.1	—	CEI
MW-3	04/19/96	167.17	15.26	—	151.91	460	55	4	33	63	ND<10	9.4	SPL
MW-3	07/23/96	167.17	19.19	—	147.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<10	9.2	SPL
MW-3	11/11/96	167.17	20.24	—	146.93	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	8.4	SPL
MW-3	01/21/97	167.17	13.09	—	154.08	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	5.4	SPL
MW-3	04/29/97	167.17	18.14	—	149.03	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.3	SPL
MW-3	08/21/97	167.17	19.64	—	147.53	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.9	SPL
MW-3	11/05/97	167.17	19.95	—	147.22	ND<250	ND<2.5	ND<5.0	ND<5.0	ND<5.0	ND<50	4.5	SPL
MW-3	02/03/98	167.17	10.57	—	156.60	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<10	4.7	SPL
MW-3	05/28/98	167.17	14.65	—	152.52	330	ND<2 5	ND<5.0	ND<5.0	ND<5.0	ND<50	4.2	SPL
MW-3	12/30/98	167.17	16.63	—	150.54	—	—	—	—	—	—	—	—
MW-4	07/09/90	170.36	—	—	—	ND	ND	ND	ND	ND	—	—	—
MW-4	12/21/90	170.36	—	—	—	ND	ND	ND	ND	0.8	—	—	—
MW-4	03/07/91	170.36	20.72	—	149.64	ND	2.2	3 8	1.5	2.8	—	—	—
MW-4	06/27/91	170.36	—	—	—	ND	6.3	1.8	0.4	1.0	—	—	—
MW-4	09/27/91	170.36	—	—	—	ND	ND	ND	ND	ND	—	—	—

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

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)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-4	12/18/91	170.36	---	---	---	ND	ND	ND	ND	ND	---	---	---
MW-4	04/01/91	170.36	17.49	---	152.87	ND	ND	ND	ND	ND	---	---	---
MW-4	07/03/92	170.36	22.16	---	148.20	ND<50	ND<0 5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
MW-4	10/05/92	170.36	23.38	---	146.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
MW-4	01/13/93	170.36	17.58	---	152.78	ND<50	ND<0 5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-4	04/23/93	170.36	15.72	---	154.64	ND<50	ND<0 5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-4	07/12/93	170.36	21.74	---	148.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-4	10/21/93	170.36	23.84	---	146.52	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-4	01/21/94	170.36	22.42	---	147.94	ND<50	ND<0 5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-4	04/20/94	170.36	22.66	---	147.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	2.2	PACE
MW-4	08/01/94	170.36	23.01	---	147.35	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	1.9	PACE
MW-4	12/23/94	170.36	17.03	---	153.33	---	---	---	---	---	---	---	---
MW-4	01/26/95	170.36	17.42	---	152.94	ND<50	ND<0 5	ND<0.5	ND<0 5	ND<1	---	7.5	ATI
MW-4	06/08/95	170.36	21.55	---	148.81	---	---	---	---	---	---	---	---
MW-4	08/22/95	170.36	23.47	---	146.89	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0 (d)	6.4	ATI
MW-4	10/27/95	170 36	24.5	---	145.86	---	---	---	---	---	---	---	---
MW-4	01/25/96	170.36	18.74	---	151 62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	58	---	CEI
MW-4	04/19/96	170.36	18.63	---	151.73	---	---	---	---	---	---	---	---
MW-4	07/23/96	170.36	22.56	---	147.80	---	---	---	---	---	---	---	---
MW-4	11/11/96	170.36	23.63	---	146.73	ND<50	ND<1 0	ND<1.0	ND<1.0	ND<1.0	34	8.2	SPL
MW-4	01/21/97	170.36	16.59	---	153.77	---	---	---	---	---	---	---	---
MW-4	04/29/97	170.36	21.43	---	148.93	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.7	SPL
MW-4	08/21/97	170.36	22.91	---	147.45	---	---	---	---	---	---	---	---
MW-4	11/05/97	170.36	22.34	---	148.02	60	ND<0.5	ND<1 0	ND<1.0	ND<1.0	76	4.9	SPL
MW-4	02/03/98	170.36	12.26	---	158.10	---	---	---	---	---	---	---	SPL
MW-4	05/28/98	170.36	18.5	---	151.86	70	ND<0 5	ND<1 0	ND<1.0	ND<1 0	160	4.2	SPL
MW-4	12/30/98	170.36	19.69	---	150.67	---	---	---	---	---	---	---	---
MW-5	07/09/90	165.14	---	---	---	280	200	210	46	290	---	---	---
MW-5	12/21/90	165.14	---	---	---	0.69	300	34	8 4	39	---	---	---
MW-5	03/07/91	165.14	16.6	---	148.54	ND	17	0 9	0.7	1.6	---	---	---
MW-5	06/27/91	165.14	---	---	---	330	120	10	12	8	---	---	---
MW-5	09/27/91	165.14	---	---	---	0.73	230	16	20	22	---	---	---
MW-5	12/18/91	165.14	---	---	---	ND	ND	ND	ND	ND	---	---	---
MW-5	04/01/91	165.14	11.99	---	153.15	800	250	54	11	60	---	---	---
MW-5	07/03/92	165.14	18.65	---	146.49	150	36	ND<0 5	ND<0.5	1.1	---	---	ANA
MW-5	10/05/92	165.14	20.32	---	144.82	270	79	4	1 7	2.9	---	---	ANA
MW-5	01/13/93	165.14	13.03	---	152.11	180	59	6 0	1 8	7 6	---	---	PACE
MW-5	04/23/93	165.14	13.51	---	151.63	8700	440	96	35	136	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

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)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-5	07/12/93	165.14	18.06	---	147.08	250	57	2.9	2.1	6.0	---	---	PACE
MW-5	10/21/93	165.14	20.41	---	144.73	210	82	1 5	ND<0.5	1.4	---	---	PACE
MW-5	01/21/94	165.14	18.86	---	146.28	110	36	1.2	ND<0.5	0.7	---	---	PACE
MW-5	04/20/94	165.14	17.3	---	147.84	690	230	4.5	1.6	11	---	1.3	PACE
MW-5	08/01/94	165.14	17.53	---	147.61	170	44	1.6	0.9	2.7	---	0.9	PACE
MW-5	12/23/94	165.14	11.63	---	153.51	630	180	1.9	0.66	1.9	---	1.4	PACE
MW-5	01/26/95	165.14	11.25	---	153.89	160	68	ND<0.5	ND<0.5	22	---	5.9	ATI
MW-5	06/08/95	165.14	16.8	---	148.34	2000	630	58	61	180	---	6.5	ATI
QC-1 (c)	06/08/95	---	---	---	---	1700	560	51	55	170	---	---	ATI
MW-5	08/22/95	165.14	19.02	---	146.12	3700	1100	18	27	59	ND<130 (d)	7.3	ATI
MW-5	10/27/95	165.14	20.94	---	144.20	---	---	---	---	---	---	---	---
MW-5	10/30/95	165.14	---	---	---	6500	2200	55	180	270	ND<250	7.5	ATI
MW-5	01/25/96	165.14	13.3	---	151.84	590	37	0.70	ND<0.50	ND<1.0	ND<5.0	---	CEI
QC-1 (c)	01/25/96	---	---	---	---	540	37	0 66	ND<0.50	ND<1.0	ND<5.0	---	CEI
MW-5	04/19/96	165.14	13.63	---	151.51	1500	470	38	49	210	ND<50	8.1	SPL
MW-5	07/23/96	165.14	17.61	---	147.53	140	4.6	ND<0.5	ND<0.5	ND<0.5	ND<10	8.0	SPL
MW-5	11/11/96	165.14	18.7	---	146.44	140	40	ND<1.0	ND<1.0	ND<1.0	ND<10	7.9	SPL
MW-5	01/21/97	165 14	11.63	---	153.51	730	300	ND<5.0	7.8	26	ND<50	5.0	SPL
MW-5	04/29/97	165.14	16.74	---	148.40	340	530	ND<5.0	ND<5.0	ND<5.0	ND<50	4.8	SPL
MW-5	08/21/97	165.14	18.26	---	146.88	ND<50	ND<0.5	ND<1 0	ND<1.0	ND<1.0	ND<10	4.9	SPL
MW-5	11/05/97	165.14	18.84	---	146.30	120	13	ND<1.0	ND<1.0	ND<1.0	ND<10	4.4	SPL
MW-5	02/03/98	165.14	9.49	---	155.65	ND<50	ND<0.50	ND<1.0	ND<1.0	ND<1.0	ND<10	4.3	SPL
MW-5	05/28/98	165.14	13.57	---	151.57	4900	1500	34	180	311	ND<10	4.1	SPL
MW-5	12/30/98	165.14	14.65	---	150.49	---	---	---	---	---	---	---	---
MW-6	07/09/90	165.4	---	---	---	ND	ND	ND	ND	ND	---	---	---
MW-6	12/21/90	165.4	---	---	---	0.17	2.6	7.0	4.9	26	---	---	---
MW-6 (e)	03/07/91	165.4	---	---	---	---	---	---	---	---	---	---	---
MW-6 (e)	06/27/91	165.4	---	---	---	---	---	---	---	---	---	---	---
MW-6 (e)	09/27/91	165.4	---	---	---	---	---	---	---	---	---	---	---
MW-6	12/18/91	165.4	---	---	---	ND	1.3	22	ND	2.7	---	---	---
MW-6	04/01/91	165.4	11.79	---	153.61	ND	ND	ND	ND	ND	---	---	---
MW-6	07/03/92	165.4	17.77	---	147.63	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
MW-6	10/05/92	165.4	19.46	---	145.94	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
MW-6	01/13/93	165.4	11.34	---	154.06	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-6	04/23/93	165.4	12.92	---	152.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-6	07/12/93	165.4	17.36	---	148.04	ND<50	ND<0.5	ND<0 5	ND<0.5	0.7	---	---	PACE
MW-6	10/21/93	165.4	19.98	---	145.42	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
MW-6	01/21/94	165.4	18.1	---	147.30	ND<50	ND<0 5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

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)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-6	04/20/94	165.4	18.68	—	146.72	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	2.0	PACE
MW-6	08/01/94	165.4	18.9	—	146.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	1.5	PACE
MW-6	12/23/94	165.4	12.94	—	152.46	—	—	—	—	—	—	—	—
MW-6	01/26/95	165.4	10.46	—	154.94	ND<50	ND<0 5	ND<0.5	ND<0.5	ND<1	—	7.3	ATI
MW-6	06/08/95	165.4	16.84	—	148.56	—	—	—	—	—	—	—	—
MW-6	08/22/95	165.4	19.48	—	145.92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0 (d)	6.7	ATI
MW-6	10/27/95	165.4	20.39	—	145.01	—	—	—	—	—	—	—	—
MW-6	01/25/96	165.4	12.24	—	153.16	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	9.9	—	CEI
MW-6	04/19/96	165.4	13.9	—	151.50	—	—	—	—	—	—	—	—
MW-6	07/23/96	165.4	17.83	—	147.57	—	—	—	—	—	—	—	—
MW-6	11/11/96	165.4	18.9	—	146.50	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	7.7	SPL
MW-6	01/21/97	165.4	11.97	—	153.43	—	—	—	—	—	—	—	—
MW-6	04/29/97	165.4	17.04	—	148.36	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.5	SPL
MW-6	08/21/97	165.4	18.58	—	146.82	—	—	—	—	—	—	—	—
MW-6	11/05/97	165.4	19.17	—	146.23	70	ND<0.5	ND<1.0	ND<1.0	ND<1.0	85	4.3	SPL
MW-6	02/03/98	165.4	9.87	—	155.53	—	—	—	—	—	—	—	—
MW-6	05/28/98	165.4	13.38	—	152.02	ND<50	ND<0 5	ND<1.0	ND<1 0	ND<1.0	ND<10	3.7	SPL
MW-6	12/30/98	165.4	14.45	—	150.95	—	—	—	—	—	—	—	—
MW-7	07/09/90	167.61	—	—	—	ND	ND	ND	ND	ND	—	—	—
MW-7	12/21/90	167.61	—	—	—	ND	ND	ND	ND	ND	—	—	—
MW-7	03/07/91	167.61	19.04	—	148.57	ND	ND	0 4	0.3	2.4	—	—	—
MW-7	06/27/91	167.61	—	—	—	70	17	4	0.8	2.2	—	—	—
MW-7	09/27/91	167.61	—	—	—	ND	0.4	ND	ND	0.4	—	—	—
MW-7	12/18/91	167.61	—	—	—	ND	0.7	2.9	0.8	3.3	—	—	—
MW-7	04/01/91	167.61	15.18	—	152.43	ND	ND	ND	ND	ND	—	—	—
MW-7	07/03/92	167.61	20.28	—	147.33	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	ANA
MW-7	10/05/92	167.61	21.56	—	146.05	ND<50	ND<0.5	ND<0.5	ND<0.5	1.5	—	—	ANA
MW-7	01/13/93	167.61	15.41	—	152.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-7	04/23/93	167.61	15.84	—	151.77	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-7	07/12/93	167.61	19.84	—	147.77	ND<50	ND<0 5	ND<0 5	ND<0.5	ND<0.5	—	—	PACE
MW-7	10/21/93	167.61	21.61	—	146.00	ND<50	ND<0.5	ND<0 5	ND<0.5	ND<0.5	—	—	PACE
MW-7	01/21/94	167.61	20.49	—	147.12	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
QC-1 (c)	01/21/94	—	—	—	—	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	—	—	PACE
MW-7	04/20/94	167.61	20.54	—	147.07	ND<50	ND<0 5	ND<0.5	ND<0.5	ND<0.5	—	1.5	PACE
MW-7	08/01/94	167.61	20.99	—	146.62	ND<50	0.7	ND<0.5	ND<0.5	ND<0.5	—	1.9	PACE
MW-7	12/23/94	167.61	15	—	152.61	—	—	—	—	—	—	—	—
MW-7	01/26/95	167.61	14.69	—	152.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	—	7.0	ATI
MW-7	06/08/95	167.61	19.87	—	147.74	—	—	—	—	—	—	—	—

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

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)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-7	08/22/95	167.61	21.49	---	146.12	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0 (d)	6.4	ATI
MW-7	10/27/95	167.61	22.53	---	145.08	---	---	---	---	---	---	---	---
MW-7	01/25/96	167.61	17.21	---	150 40	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	CEI
MW-7	04/19/96	167.61	17.09	---	150.52	---	---	---	---	---	---	---	---
MW-7	07/23/96	167.61	21.02	---	146.59	---	---	---	---	---	---	---	---
MW-7	11/11/96	167.61	22.03	---	145.58	ND<50	ND<0 5	ND<1 0	ND<1.0	ND<1 0	ND<10	7.8	SPL
MW-7	01/21/97	167.61	15.06	---	152.55	---	---	---	---	---	---	---	---
MW-7	04/29/97	167.61	20.11	---	147.50	ND<50	ND<0.5	ND<1 0	ND<1.0	ND<1.0	ND<10	4.4	SPL
MW-7	08/21/97	167.61	21.59	---	146.02	---	---	---	---	---	---	---	---
MW-7	11/05/97	167.61	20.05	---	147.56	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	4.4	SPL
MW-7	02/03/98	167.61	9.97	---	157.64	---	---	---	---	---	---	---	SPL
MW-7	05/28/98	167.61	13.52	---	154.09	ND<50	ND<0 5	ND<1 0	ND<1.0	ND<1.0	ND<10	4.3	SPL
MW-7	12/30/98	167.61	18.33	---	149.28	---	---	---	---	---	---	---	---
MW-8	03/07/91	165.74	16.72	---	149.02	2.7	780	450	64	310	---	---	---
MW-8	06/27/91	165.74	---	---	---	12000	3400	1100	240	750	---	---	---
MW-8	09/27/91	165.74	---	---	---	41	5700	5200	1100	4300	---	---	---
MW-8	12/18/91	165.74	---	---	---	3.2	990	150	120	250	---	---	---
MW-8	04/01/91	165.74	12.54	---	153.20	15000	3600	2600	410	1900	---	---	---
MW-8	07/03/92	165.74	18.78	---	146.96	72000	19000	32000	3000	15000	---	---	ANA
MW-8	10/05/92	165.74	20.48	0.01	145.27	---	---	---	---	---	---	---	---
MW-8	01/13/93	165.74	12.87	0.01	152.88	---	---	---	---	---	---	---	---
MW-8	04/23/93	165.74	13.9	SHEEN	151.84	---	---	---	---	---	---	---	---
MW-8	07/12/93	165.74	18.3	SHEEN	147.44	---	---	---	---	---	---	---	---
MW-8	10/21/93	165.74	21.91	0.95	144.54	---	---	---	---	---	---	---	---
MW-8	01/21/94	165.74	19.12	0.03	146.64	---	---	---	---	---	---	---	---
MW-8	04/20/94	165.74	19.28	0.03	146.48	26000	1700	4100	960	4000	---	1.1	PACE
MW-8	08/01/94	165.74	---	---	---	---	---	---	---	---	---	---	---
MW-8	12/23/94	165.74	13.81	0.03	151.95	---	---	---	---	---	---	---	---
MW-8	01/26/95	165.74	---	---	---	---	---	---	---	---	---	---	---
MW-8	06/08/95	165.74	17.82	0.29	148.14	---	---	---	---	---	---	---	---
MW-8	08/22/95	165.74	19.41	0.2	146.48	---	---	---	---	---	---	---	---
MW-8	10/27/95	165.74	20.47	0.14	145.38	---	---	---	---	---	---	---	---
MW-8	01/25/96	165.74	13.35	0.22	152.56	---	---	---	---	---	---	---	---
MW-8	04/19/96	165.74	14.4	0.2	151.49	---	---	---	---	---	---	---	---
MW-8	07/23/96	165.74	18.35	0.14	147.50	---	---	---	---	---	---	---	---
MW-8	11/11/96	165.74	19.41	0.02	146.35	---	---	---	---	---	---	---	---
MW-8	01/21/97	165.74	12.29	0.01	153.46	---	---	---	---	---	---	---	---
MW-8 (e)	04/29/97	165.74	---	---	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

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)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-8	08/21/97	165.74	19.61	---	146.13	240000	1100	9300	4100	31100	ND<1000	5.2	SPL
MW-8	11/05/97	165.74	19.45	0.1	146.37	57000	790	2700	2300	15200	ND<1000	5.0	SPL
MW-8	02/03/98	165.74	9.33	0.03	156.43	---	---	---	---	---	---	---	---
MW-8	02/04/98	---	---	---	---	94000	570	1500	2100	15200	ND<2500	5.5	SPL
MW-8 (e)	05/28/98	165.74	---	---	---	---	---	---	---	---	---	---	---
MW-8	12/30/98	165.74	15.48	0.05	150.30	120000	460	2300	2200	15000	150	---	SPL
MW-9	03/07/91	166.2	16.79	---	149.41	7.1	220	4	2.4	2400	---	---	---
MW-9	06/27/91	166.2	---	---	---	3600	520	400	85	310	---	---	---
MW-9	09/27/91	166.2	---	---	---	3.2	720	150	50	180	---	---	---
MW-9	12/18/91	166.2	---	---	---	ND	2.5	1 1	0.3	5.8	---	---	---
MW-9	04/01/91	166.2	12.89	---	153.31	12000	2000	2600	360	1600	---	---	---
MW-9	07/03/92	166.2	18.89	---	147.31	5700	17000	840	230	800	---	---	ANA
MW-9	10/05/92	166.2	20.52	---	145.68	1400	440	17	14	100	---	---	ANA
MW-9	01/13/93	166.2	12.92	---	153.28	11000	1200	1700	340	1400	---	---	PACE
QC-1 (c)	01/13/93	---	---	---		11000	1200	1600	330	1300	---	---	PACE
MW-9	04/23/93	166.2	14.08	---	152.12	24000	2800	4500	730	3400	---	---	PACE
MW-9	07/12/93	166.2	18.44	---	147.76	13000	1400	1100	360	1400	---	---	PACE
QC-1 (c)	07/12/93	---	---	---	---	10000	1200	900	310	1200	---	---	PACE
MW-9	10/21/93	166.2	21.81	0.89	145.06	---	---	---	---	---	---	---	---
MW-9	01/21/94	166.2	19.28	---	146.92	---	---	---	---	---	---	---	---
MW-9	04/20/94	166.2	19.72	---	146.48	43000	2800	6800	1300	7900	---	1.7	PACE
QC-1 (c)	04/20/94	---	---	---	---	45000	2700	6800	1200	8200	740 (d)	---	PACE
MW-9	08/01/94	166.2	20.18	0.05	146.06	---	---	---	---	---	---	---	---
MW-9	12/23/94	166.2	14.22	0.02	152.00	---	---	---	---	---	---	---	---
MW-9	01/26/95	166.2	11.85	0.13	154.45	---	---	---	---	---	---	---	---
MW-9	06/08/95	166.2	18.33	0.8	148.47	---	---	---	---	---	---	---	---
MW-9	08/22/95	166.2	19.95	0.01	146.26	---	---	---	---	---	---	---	---
MW-9	10/27/95	166.2	20.88	0.01	145.33	---	---	---	---	---	---	---	---
MW-9	01/25/96	166.2	13.84	0.07	152.41	---	---	---	---	---	---	---	---
MW-9 (e)	04/19/96	166.2	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/23/96	166.2	18.84	0.03	147.38	---	---	---	---	---	---	---	---
MW-9	11/11/96	166.2	19.91	0.01	146.30	---	---	---	---	---	---	---	---
MW-9	01/21/97	166.2	12.93	0.01	153.28	---	---	---	---	---	---	---	---
MW-9	04/29/97	166.2	18.03	SHEEN	148.17	---	---	---	---	---	---	---	---
MW-9	04/30/97	166.2	---	---	---	78000	1900	3600	3100	20600	ND<5000	5.5	SPL
MW-9	08/21/97	166.2	19.56	0.01	146.65	110000	2100	3400	2300	18800	ND<500	5.1	SPL
MW-9	11/05/97	166.2	20.59	0.01	145.62	59000	1400	1700	2200	17000	ND<500	4.5	SPL
MW-9	02/03/98	166.2	10.56	---	155.64	55000	490	1200	1400	10200	ND<1000	4.9	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

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)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
MW-9	05/28/98	166.2	14.21	0.01	152.00	41000	250	1200	1500	11400	ND<250	3.8	SPL
QC-1 (c)	05/28/98	---	---	---	---	53000	290	830	1400	10500	ND<500	---	SPL
MW-9	12/30/98	166.2	15.61		150.59	83000	860	1300	2400	21000	180	---	SPL
MW-10	03/07/91	167.01	18.09	---	148.92	1.6	120	190	32	230	---	---	---
MW-10	06/27/91	167.01	---	---	---	12000	7300	500	150	300	---	---	---
MW-10	09/27/91	167.01	---	---	---	57	12000	7200	1400	4600	---	---	---
MW-10	12/18/91	167.01	---	---	---	5.3	2500	120	36	79	---	---	---
MW-10	04/01/91	167.01	13.92	---	153.09	ND	ND	ND	ND	ND	---	---	---
MW-10	07/03/92	167.01	19.92	---	147.09	8600	5100	1300	180	690	---	---	ANA
MW-10	10/05/92	167.01	21.92	0.19	145.23	---	---	---	---	---	---	---	---
MW-10	01/13/93	167.01	14.43	0.03	152.60	---	---	---	---	---	---	---	---
MW-10	04/23/93	167.01	15.26	0.06	151.80	---	---	---	---	---	---	---	---
MW-10	07/12/93	167.01	19.78	0.45	147.57	---	---	---	---	---	---	---	---
MW-10	10/21/93	167 01	22.9	0.69	144.63	---	---	---	---	---	---	---	---
MW-10	01/21/94	167.01	20.25	0.06	146.81	---	---	---	---	---	---	---	---
MW-10	04/20/94	167.01	20.74	---	146.27	100000	12000	24000	2400	14000	1600 (d)	1.0	PACE
MW-10	08/01/94	167.01	22	0.28	145.22	---	---	---	---	---	---	---	---
MW-10	12/23/94	167.01	16.08	0.25	151.12	---	---	---	---	---	---	---	---
MW-10	01/26/95	167.01	13.68	0.8	153.93	---	---	---	---	---	---	---	---
MW-10	06/08/95	167.01	19.08	0.75	148.49	---	---	---	---	---	---	---	---
MW-10	08/22/95	167.01	20.73	0.7	146.81	---	---	---	---	---	---	---	---
MW-10	10/27/95	167.01	21.69	0.63	145.79	---	---	---	---	---	---	---	---
MW-10	01/25/96	167.01	15.05	0.81	152.57	---	---	---	---	---	---	---	---
MW-10	04/19/96	167.01	16.26	0.58	151.19	---	---	---	---	---	---	---	---
MW-10	07/23/96	167.01	20.18	0.62	147.30	---	---	---	---	---	---	---	---
MW-10	11/11/96	167.01	21.2	0.2	145.96	---	---	---	---	---	---	---	---
MW-10	01/21/97	167.01	13.66	0.14	153.46	---	---	---	---	---	---	---	---
MW-10	04/29/97	167.01	18.71	0.21	148.46	---	---	---	---	---	---	---	---
MW-10	04/30/97	167.01	---	---	---	170000	9700	38000	4700	30500	ND<5000	5.6	SPL
MW-10	08/21/97	167.01	20.19	0.14	146.93	170000	9500	35000	4300	27100	ND<5000	5.3	SPL
MW-10	11/05/97	167.01	20.52	0.02	146.51	80000	3800	12000	2700	15700	ND<500	4.4	SPL
MW-10	02/03/98	167.01	10.62	0.01	156.40	---	---	---	---	---	---	---	---
MW-10	02/04/98	---	---	---	---	72000	500	1300	1700	12000	ND<1000	5.1	SPL
MW-10	05/28/98	167.01	15.46	---	151.55	220000	3200	24000	5200	43000	ND<1000	4.8	SPL
MW-10	12/30/98	167.01	16.65	---	150.36	110000	3500	14000	5800	50000	ND<50	---	SPL
RW-1	07/09/90	168.01	---	1.21	---	---	---	---	---	---	---	---	---
RW-1	12/21/90	168.01	---	0.01	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

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)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
RW-1	03/07/91	168.01	17.62	SHEEN	150.39	---	---	---	---	---	---	---	---
RW-1	06/27/91	168.01	---	0.04	---	---	---	---	---	---	---	---	---
RW-1	09/27/91	168.01	---	0.02	---	---	---	---	---	---	---	---	---
RW-1	12/18/91	168.01	---	0.02	---	---	---	---	---	---	---	---	---
RW-1	04/01/91	168.01	14.4	0.11	153.69	---	---	---	---	---	---	---	---
RW-1	07/03/92	168.01	20.66	SHEEN	147.35	---	---	---	---	---	---	---	---
RW-1	10/05/92	168.01	23.34	0.08	144.73	---	---	---	---	---	---	---	---
RW-1	01/13/93	168.01	16.59	0.05	151.46	---	---	---	---	---	---	---	---
RW-1	04/23/93	168.01	16.17	0.18	151.98	---	---	---	---	---	---	---	---
RW-1	07/12/93	168.01	20.18	0.06	147.88	---	---	---	---	---	---	---	---
RW-1	10/21/93	168.01	25.7	0.56	142.73	---	---	---	---	---	---	---	---
RW-1	01/21/94	168.01	21.24	0.4	147.07	---	---	---	---	---	---	---	---
RW-1	04/20/94	168.01	32.2	---	135.81	---	---	---	---	---	---	---	---
RW-1	08/01/94	168.01	21.7	---	146.31	29000	580	950	300	7800	1200 (d)	1.1	PACE
RW-1	12/23/94	168.01	16.02	---	151.99	1300	25	8.6	1.4	69	---	1.8	PACE
RW-1	01/26/95	168.01	13.78	---	154.23	ND<50	ND<0.5	ND<0 5	ND<0.5	ND<1	---	---	ATI
QC-1 (c)	01/26/95	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	ATI
RW-1	06/08/95	168.01	20.05	---	147.96	1300	130	ND<1.0	ND<1.0	36	---	---	ATI
RW-1	08/22/95	168.01	21.74	---	146.27	3300	230	13	4.9	280	ND<25 (d)	6.6	ATI
QC-1 (c)	08/22/95	---	---	---	---	2800	210	9.3	4.3	250	ND<25 (d)	---	ATI
RW-1	10/27/95	168.01	32	---	136.01	---	---	---	---	---	---	---	---
RW-1	10/30/95	168.01	---	---	---	230	1 4	ND<1.0	ND<1.0	ND<2.0	650	6.9	ATI
QC-1 (c)	10/30/95	---	---	---	---	240	1.6	ND<1.0	ND<1.0	ND<2.0	630	---	ATI
RW-1	01/25/96	168.01	15.41	---	152.60	15000	3400	930	330	2500	5300	---	CEI
RW-1	04/19/96	168.01	16.83	---	151.18	35000	5500	3300	1700	9400	14000	7.6	SPL
QC-1 (c)	04/19/96	---	---	---	---	33000	5600	3200	1700	8800	15000	---	SPL
RW-1	07/23/96	168.01	20.76	---	147.25	46000	3600	2300	900	5100	36000	7.4	SPL
QC-1 (c)	07/23/96	---	---	---	---	47000	3700	2500	930	5300	35000	---	SPL
RW-1	11/11/96	168.01	21.73	---	146.28	34000	3000	1200	880	4600	22000	8.3	SPL
QC-1 (c)	11/11/96	---	---	---	---	31000	2900	1000	860	4600	22000	---	SPL
RW-1	01/21/97	168.01	14.2	---	153.81	260	40	16	2.7	34	1500	6.1	SPL
QC-1 (c)	01/21/97	---	---	---	---	270	42	17	2.7	36	1500	---	SPL
RW-1	04/29/97	168.01	19.15	---	148.86	32000	3100	590	1300	6000	46000	5.3	SPL
RW-1	08/21/97	168.01	20.67	---	147.34	7600	730	58	370	1780	9500	4.7	SPL
RW-1	11/05/97	168.01	21.01	---	147.00	39000	2300	86	1300	3840	56000	4.5	SPL
RW-1	02/03/98	168.01	10.68	---	157.33	3400	31	11	29	161	3200	5.1	SPL
RW-1	05/28/98	168.01	15.55	---	152.46	2000	90	15	60	305	2700	4.3	SPL
RW-1	12/30/98	168.01	17.35	---	150.66	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

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)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	DO (ppm)	LAB
QC-2	(f) 10/05/92	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	ANA
QC-2	(f) 01/13/93	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(f) 04/23/93	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(f) 07/12/93	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(f) 10/21/93	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(f) 01/21/94	---	---	---	---	ND<50	ND<0.5	2.1	ND<0.5	2.1	---	---	PACE
QC-2	(f) 04/20/94	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(f) 04/20/94	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	PACE
QC-2	(f) 12/23/94	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0 5	ND<0.5	---	---	ATI
QC-2	(f) 01/26/95	---	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0 5	ND<1	---	---	ATI
QC-2	(f) 06/08/95	---	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	ATI
QC-2	(f) 08/22/95	---	---	---	---	ND<50	ND<0.50	ND<0 50	ND<0.50	ND<1.0	ND<5.0 (d)	---	ATI
QC-2	(f) 10/30/95	---	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	ATI
QC-2	(f) 01/25/96	---	---	---	---	ND<50	ND<0 50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	CEI
QC-2	(f) 04/19/96	---	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITERING

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
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
---	Not analyzed/available/applicable/measurable
ND	Not detected above reported detection limit
PACE	Pace, Inc.
ANA	Anametrix, Inc.
ATI	Analytical Technologies, Inc.
CEI	Ceimic Corporation
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) Blind duplicate

(d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-024-10-001.

(e) Well inaccessible.

(f) Travel blank.

TABLE 2 - PRODUCT REMOVAL STATUS

WELL ID	DATE	PRODUCT THICKNESS (Feet)	PRODUCT REMOVED (Gallons)	PRODUCT REMOVED CUMULATIVE (Gallons)
MW-1	01/26/95	1.1	3.00	3.00
	06/08/95	1.2	0.60	3.60
	06/28/95	---	0.10	3.70
	08/22/95	0.85	0.15	3.85
	10/30/95	0.69	0.11	3.96
	01/25/96	1.4	1.00	4.96
	02/16/95	---	0.08	5.04
	04/19/96	1.22	0.75	5.79
	07/23/96	0.89	0.00	5.79
	11/11/96	0.98	0.98	6.77
	01/21/97	0.9	0.20	6 97
	04/29/97	0.85	0.25	7.22
	08/21/97	0.87	0.15	7.37
	11/05/97	0.54	0.25	7 62
	02/03/98	0.32	0.25	7.87
	05/06/98	0.47	0.25	8 12
	05/13/98	0.1	<0.1	NA
	05/24/98	0.19	<0 1	NA
	05/27/98	0.15	<0.1	NA
	05/28/98	0.17	0.20	8.32
	06/09/98	0 2	0.25	8.57
	06/17/98	0.21	0.10	8.67
	06/22/98	0.15	0.25	8.92
	07/02/98	0.15	0.10	8.42
	07/09/98	0.2	0.10	8.67
	07/14/98	0 11	<0 1	NA
	07/30/98	0.1	<0 1	NA
	12/30/98	0.08	0.02	8.69
MW-2	09/29/93	---	0.10	0.10
	10/05/93	---	0.10	0.20
	10/14/93	---	0.10	0.30
	10/20/93	0.31	0.25	0.55
	11/02/93	---	0.10	0.65
	12/07/93	---	0.05	0.70
	12/17/93	---	<0.01	NA
	12/23/93	---	0.30	1.00
	01/12/94	---	0.05	1.05
	02/02/94	---	0.01	1.06
	02/11/94	---	0.01	1.07
	03/18/94	---	<0.01	NA
	08/01/94	0.04	---	NA
	10/26/94	---	0.10	1.17
	11/12/94	---	0.10	1.27
	12/12/94	---	0.03	1.30
	12/23/94	0.03	---	NA
	01/26/95	0.39	0.20	1.50
	06/08/95	0.43	<0.10	NA
	06/28/95	---	0.05	1.55
	08/22/95	0.36	0.10	1.65
	10/30/95	0.3	0.05	1.70
	01/25/96	0.15	<0.10	NA
	02/16/95	---	<0.10	NA
	04/19/96	0.07	<0.10	NA
	07/23/96	0.05	<0.10	NA
	11/11/96	0.01	<0.10	NA
	01/21/97	0.01	<0.10	NA

TABLE 2 - PRODUCT REMOVAL STATUS

	04/29/97	0.01	<0.10	NA
	08/21/98	0.01	<0.10	NA
	11/05/97	0.01	<0.10	NA
	02/03/98	0.00	<0.10	NA
	05/28/98	Globules	<0.10	NA
	12/30/98	—	—	NA
MW-8				
	07/12/93	Iridescence	—	—
	10/21/93	0.95	—	—
	11/02/93	—	0.25	0.25
	11/10/93	—	0.10	0.35
	11/16/93	—	0.10	0.45
	11/23/93	—	0.10	0.55
	11/30/93	—	0.10	0.65
	12/17/93	—	<0.10	NA
	12/23/93	—	<0.10	NA
	01/12/94	—	<0.10	NA
	01/21/94	0.03	—	NA
	02/02/94	—	0.05	0.70
	02/11/94	—	0.08	0.78
	02/18/94	—	0.10	0.88
	03/18/94	—	<0.10	NA
	04/20/94	0.03	—	NA
	04/27/94	—	0.10	0.98
	05/27/94	—	0 10	1 08
	10/26/94	—	0 10	1.18
	11/12/94	—	<0.10	NA
	12/12/94	—	<0.10	NA
	12/23/94	0.03	<0.10	NA
	06/08/95	0.29	0.10	1.28
	08/22/95	0.2	0.05	1.33
	10/27/95	0.14	<0.10	NA
	10/30/95	—	0.02	1.35
	01/25/96	0.22	0.05	1.4
	02/16/95	—	0.1	1.5
	04/19/96	0.2	0.25	1.75
	07/23/96	0.14	<0 10	NA
	11/11/96	0.02	<0.10	NA
	01/21/97	0.01	<0.10	NA
	08/21/97	Iridescence	—	NA
	11/05/97	0.1	0.10	1.85
	02/03/98	0.03	<0.10	NA
	05/06/98	0.05	<0.10	NA
	05/28/98	(a)	—	NA
	12/30/98	0.05	0.01	1.86
MW-9	10/21/93	0.89	—	—
	11/02/93	—	0.10	0.10
	11/10/93	—	0.10	0.20
	11/16/93	—	0.10	0.30
	12/23/93	—	0.10	0.40
	01/12/94	—	<0.10	NA
	01/20/93	—	0.05	0.45
	02/02/94	—	0.05	0.50
	02/11/94	—	<0.10	NA
	02/18/94	—	0.10	0.60
	03/18/94	—	0.10	0.70
	08/01/94	0.05	—	NA
	10/26/94	—	0.15	0.85
	11/12/94	—	0.10	0.95
	12/12/94	—	0.10	1.05
	12/23/94	0.02	—	NA
	01/26/95	—	0.10	1.15

TABLE 2 - PRODUCT REMOVAL STATUS

	06/28/95	---	0.10	1.25
	08/22/95	---	0.10	1.35
	10/30/95	---	0.10	1.45
	01/25/96	0.13	0.10	1.55
	02/16/95	---	0.10	1.65
	06/08/95	0.8	---	NA
	08/22/95	0.01	---	NA
	10/27/95	0.01	---	NA
	01/25/96	0.07	---	NA
	04/19/96	(a)	---	NA
	07/23/96	0.03	<0.10	NA
	11/11/96	0.01	<0.10	NA
	01/21/97	0.01	<0.10	NA
	04/29/97	Iridescence	<0.10	NA
	08/27/97	0.01	---	NA
	11/05/97	0.01	0.10	1.75
	02/03/98	---	<0.10	NA
	05/13/98	0.02	<0.10	NA
	05/24/98	0.01	<0.10	NA
	05/27/98	0.01	<0.10	NA
	05/28/98	0.01	<0.10	NA
	06/09/98	0.01	<0.10	NA
	06/17/98	0.01	<0.10	NA
	06/22/98	0.01	<0.10	NA
	07/02/98	0.01	<0.10	NA
	07/09/98	0.01	<0.10	NA
	07/14/98	0.01	<0.10	NA
	12/30/98	---	---	NA
MW-10	09/07/93	---	0.10	0.10
	09/14/93	---	0.10	0.20
	09/29/93	---	0.10	0.30
	10/05/93	---	1.60	1.90
	10/14/93	---	2.10	4.00
	10/20/93	---	1.00	5.00
	10/21/93	0.69	---	NA
	10/27/93	---	1 00	6.00
	11/02/93	---	0.30	6.30
	11/10/93	---	0.20	6.50
	11/16/93	---	0.10	6.60
	11/23/93	---	0.10	6.70
	11/30/93	---	0.30	7.00
	12/07/93	---	0.20	7.20
	12/17/93	---	0.30	7.50
	12/23/93	---	<0.10	NA
	01/04/94	---	<0.10	NA
	01/12/94	---	0.10	7.60
	01/20/94	---	0.20	7.80
	01/21/94	0.06	---	NA
	02/02/94	---	0.10	7.90
	02/11/94	---	0.10	8.00
	02/18/94	---	0.20	8.20
	05/27/94	---	<0.10	NA
	08/01/94	0.28	---	NA
	10/26/94	---	0.60	8.80
	11/12/94	---	0.40	9.20
	12/12/94	---	0.20	9.40
	12/23/94	0.25	---	NA
	01/26/95	0.8	0.10	9.50
	06/08/95	0.75	---	NA
	06/28/95	---	0.10	9.60
	08/22/95	0.7	0.15	9.75
	10/27/95	0.63	---	NA
	10/30/95	---	0.10	9.85

TABLE 2 - PRODUCT REMOVAL STATUS

01/25/96	0.81	0.25	10.10
02/16/95	—	0.10	10.20
04/19/96	—	0.50	10.70
07/23/96	0.62	<0.10	NA
11/11/96	0.2	0.20	10.90
01/21/97	0.14	<0.03	NA
04/29/97	0.21	0.04	10.94
08/21/97	0.14	—	NA
11/05/97	0.02	<0.10	NA
02/03/98	0.1	<0.10	NA
05/06/98	0.02	<0.10	NA
05/13/98	Sheen	<0.10	NA
05/28/98	Globules	<0.10	NA
12/30/98	—	<0.10	NA

TABLE 2 - PRODUCT REMOVAL STATUS

NOTE:
(a) Well inaccessible.

Analytical Appendix

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

January 13, 1999

Mr. Scott Hooton
BP OIL COMPANY
295 SW 41 Street Bldg. 13, Ste
Renton, WA 98055

The following report contains analytical results for the sample(s) received at Southern Petroleum Laboratories (SPL) on January 5, 1999. The sample(s) was assigned to Certificate of Analysis No.(s) 9901061 and analyzed for all parameters as listed on the chain of custody

Any data flags or quality control exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s).

If you have any questions or comments pertaining to this data report, please do not hesitate to contact me. Please reference the above Certificate of Analysis No. during any inquiries.

Again, SPL is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Southern Petroleum Laboratories

Sonia West
Senior Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 99-01-061

Approved for Release by:

Sonia West
Sonia West, Senior Project Manager

1-13-99
Date

Greg Grandits
Laboratory Director

Cynthia Schreiner
Quality Assurance Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9901061-01

BP Oil Company
295 SW 41 Street Bldg.13,Ste
Renton, WA 98055
ATTN: Scott Hooton

P.O.# N/A , COC#100196
DATE: 01/12/99

PROJECT: #11132, 3201 35th Street
SITE: Oakland, CA
SAMPLED BY: Blaine Tech Services
SAMPLE ID: A

PROJECT NO: 981230-R-2
MATRIX: WATER
DATE SAMPLED: 12/30/98 14:10:00
DATE RECEIVED: 01/05/99

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	3600	100 P	ug/L
BENZENE	530	100 P	ug/L
TOLUENE	3200	100 P	ug/L
ETHYLBENZENE	2900	100 P	ug/L
TOTAL XYLENE	16000	100 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	22630		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	110		
4-Bromofluorobenzene	100		
Method 8020A ***			
Analyzed by: CJ			
Date: 01/07/99			
Gasoline Range Organics	70	5 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	110		
4-Bromofluorobenzene	100		
California LUFT Manual for Gasoline			
Analyzed by: CJ			
Date: 01/07/99 21:38:00			

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL California License # 1903

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9901061-02

BP Oil Company
295 SW 41 Street Bldg.13,Ste
Renton, WA 98055
ATTN: Scott Hooton

P.O.# N/A , COC#100196
DATE: 01/12/99

PROJECT: #11132, 3201 35th Street
SITE: Oakland, CA
SAMPLED BY: Blaine Tech Services
SAMPLE ID: B

PROJECT NO: 981230-R-2
MATRIX: WATER
DATE SAMPLED: 12/30/98 13:51:00
DATE RECEIVED: 01/05/99

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	250 P	ug/L
BENZENE	4700	250 P	ug/L
TOLUENE	3500	250 P	ug/L
ETHYLBENZENE	3700	250 P	ug/L
TOTAL XYLENE	21000	250 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	32900		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	103		
4-Bromofluorobenzene	97		
Method 8020A ***			
Analyzed by: CJ			
Date: 01/07/99			
Gasoline Range Organics	95	12 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	105		
4-Bromofluorobenzene	100		
California LUFT Manual for Gasoline			
Analyzed by: CJ			
Date: 01/07/99 22:02:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9901061-03

BP Oil Company
295 SW 41 Street Bldg.13,Ste
Renton, WA 98055
ATTN: Scott Hooton

P.O.# N/A
COC#100196
DATE: 01/12/99

PROJECT: #11132, 3201 35th Street
SITE: Oakland, CA
SAMPLED BY: Blaine Tech Services
SAMPLE ID: C

PROJECT NO: 981230-R-2
MATRIX: WATER
DATE SAMPLED: 12/30/98 14:24:00
DATE RECEIVED: 01/05/99

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	150	25 P	ug/L
BENZENE	460	25 P	ug/L
TOLUENE	2300	25 P	ug/L
ETHYLBENZENE	2200	25 P	ug/L
TOTAL XYLENE	15000	25 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	19960		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	111		
4-Bromofluorobenzene	120		
Method 8020A ***			
Analyzed by: TB			
Date: 01/12/99			
Gasoline Range Organics	120	25 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	93		
4-Bromofluorobenzene	100		
California LUFT Manual for Gasoline			
Analyzed by: CJ			
Date: 01/07/99 22:26:00			

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9901061-04

BP Oil Company
295 SW 41 Street Bldg.13,Ste
Renton, WA 98055
ATTN: Scott Hooton

P.O.# N/A , COC#100196
DATE: 01/12/99

PROJECT: #11132, 3201 35th Street
SITE: Oakland, CA
SAMPLED BY: Blaine Tech Services
SAMPLE ID: D

PROJECT NO: 981230-R-2
MATRIX: WATER
DATE SAMPLED: 12/30/98 13:39:00
DATE RECEIVED: 01/05/99

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	180	50 P	ug/L
BENZENE	860	50 P	ug/L
TOLUENE	1300	50 P	ug/L
ETHYLBENZENE	2400	50 P	ug/L
TOTAL XYLENE	21000	50 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	25560		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	113		
4-Bromofluorobenzene	120		
Method 8020A ***			
Analyzed by: GS			
Date: 01/10/99			
Gasoline Range Organics	83	25 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	100		
4-Bromofluorobenzene	100		
California LUFT Manual for Gasoline			
Analyzed by: CJ			
Date: 01/08/99 00:28:00			

(P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9901061-05

BP Oil Company
295 SW 41 Street Bldg.13,Ste
Renton, WA 98055
ATTN: Scott Hooton

P.O.# N/A , COC#100196
DATE: 01/12/99

PROJECT: #11132, 3201 35th Street
SITE: Oakland, CA
SAMPLED BY: Blaine Tech Services
SAMPLE ID: E

PROJECT NO: 981230-R-2
MATRIX: WATER
DATE SAMPLED: 12/30/98 14:42:00
DATE RECEIVED: 01/05/99

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	50 P	ug/L
BENZENE	3500	50 P	ug/L
TOLUENE	14000	50 P	ug/L
ETHYLBENZENE	5800	50 P	ug/L
TOTAL XYLENE	50000	50 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	73300		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	127		
4-Bromofluorobenzene	120		
Method 8020A ***			
Analyzed by: CJ			
Date: 01/08/99			
Gasoline Range Organics	110	25 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	107		
4-Bromofluorobenzene	93		
California LUFT Manual for Gasoline			
Analyzed by: CJ			
Date: 01/08/99 00:53:00			

ND - Not detected. (P) - Practical Quantitation Limit

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.
SPL California License # 1903

QUALITY CONTROL

DOCUMENTATION

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **
METHOD 8020

Matrix: Aqueous
Units: ug/L

Batch Id: HP_S990107104410

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	82	82.0	72 - 128
Benzene	ND	100	81	81.0	61 - 119
Toluene	ND	100	82	82.0	65 - 125
EthylBenzene	ND	100	81	81.0	70 - 118
O Xylene	ND	100	82	82.0	72 - 117
M & P Xylene	ND	200	160	80.0	72 - 116

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	50	56	112	40	80.0	33.3 *	20	39 - 150
BENZENE	ND	50	55	110	55	110	0	21	32 - 164
TOLUENE	ND	50	56	112	54	108	3.64	20	38 - 159
ETHYLBENZENE	ND	50	55	110	54	108	1.83	19	52 - 142
O XYLENE	ND	50	54	108	53	106	1.87	18	53 - 143
M & P XYLENE	ND	100	110	110	110	110	0	17	53 - 144

Analyst: CJ
Sequence Date: 01/08/99
SPL ID of sample spiked: 9901090-04A
Sample File ID: S_A1128.TX0
Method Blank File ID:
Blank Spike File ID: S_A1152.TX0
Matrix Spike File ID: S_A1123.TX0
Matrix Spike Duplicate File ID: S_A1124.TX0

* = Values outside QC Range due to Matrix Interference (except RPD)
« = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data (1st Q '97)
(***) = Source: SPL-Houston Historical Data (1st Q '97)

SAMPLES IN BATCH(SPL ID): 9901059-07A 9901061-01A 9901061-02A 9901059-06A

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **
METHOD 8020

Matrix: Aqueous
Units: ug/L

Batch Id: HP_U990111065200

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	100	120	120	72 - 128
Benzene	ND	100	100	100	61 - 119
Toluene	ND	100	110	110	65 - 125
EthylBenzene	ND	100	100	100	70 - 118
O Xylene	ND	100	100	100	72 - 117
M & P Xylene	ND	200	210	105	72 - 116

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	49	20	69	100	66	85.0	16.2	20	39 - 150
BENZENE	ND	20	20	100	21	105	4.88	21	32 - 164
TOLUENE	ND	20	20	100	20	100	0	20	38 - 159
ETHYLBENZENE	ND	20	19	95.0	20	100	5.13	19	52 - 142
O XYLENE	ND	20	19	95.0	19	95.0	0	18	53 - 143
M & P XYLENE	ND	40	39	97.5	39	97.5	0	17	53 - 144

Analyst: TB
Sequence Date: 01/11/99
SPL ID of sample spiked: 9901146-07A
Sample File ID: U_A2015.TX0
Method Blank File ID:
Blank Spike File ID: U_A2004.TX0
Matrix Spike File ID: U_A2009.TX0
Matrix Spike Duplicate File ID: U_A2010.TX0

* = Values outside QC Range due to Matrix Interference (except RPD)
« = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data (1st Q '97)
(***) = Source: SPL-Houston Historical Data (1st Q '97)

SAMPLES IN BATCH(SPL ID): 9901067-02A 9901061-03A 9901059-07A 9901259-05A
9901066-03A

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **
METHOD 8020

Matrix: Aqueous
Units: ug/L

Batch Id: HP_W990110110300

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	50	50	100	72 - 128
Benzene	ND	50	47	94.0	61 - 119
Toluene	ND	50	47	94.0	65 - 125
EthylBenzene	ND	50	47	94.0	70 - 118
O Xylene	ND	50	46	92.0	72 - 117
M & P Xylene	ND	100	94	94.0	72 - 116

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	3.9	20	26	110	26	110	0	20	39 - 150
BENZENE	ND	20	26	130	26	130	0	21	32 - 164
TOLUENE	ND	20	25	125	25	125	0	20	38 - 159
ETHYLBENZENE	ND	20	26	130	26	130	0	19	52 - 142
O XYLENE	ND	20	26	130	25	125	3.92	18	53 - 143
M & P XYLENE	ND	40	52	130	51	128	1.55	17	53 - 144

Analyst: GS/
Sequence Date: 01/10/99
SPL ID of sample spiked: 9901067-01A
Sample File ID: W_A1123.TXO
Method Blank File ID:
Blank Spike File ID: W_A1116.TXO
Matrix Spike File ID: W_A2007.TXO
Matrix Spike Duplicate File ID: W_A2008.TXO

* = Values outside QC Range due to Matrix Interference (except RPD)
« = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data (1st Q '97)
(***) = Source: SPL-Houston Historical Data (1st Q '97)

SAMPLES IN BATCH(SPL ID): 9901068-01A 9901066-02A 9901061-04A 9901059-06A
9901067-01A 9901067-02A 9901059-03A

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **
METHOD 8020

Matrix: Aqueous
Units: ug/L

Batch Id: HP_S990108112200

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
MTBE	ND	50	49	98.0	72 - 128
Benzene	ND	50	47	94.0	61 - 119
Toluene	ND	50	48	96.0	65 - 125
EthylBenzene	ND	50	48	96.0	70 - 118
O Xylene	ND	50	48	96.0	72 - 117
M & P Xylene	ND	100	95	95.0	72 - 116

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
MTBE	ND	20	27	135	23	115	16.0	20	39 - 150
BENZENE	ND	20	23	115	23	115	0	21	32 - 164
TOLUENE	ND	20	23	115	24	120	4.26	20	38 - 159
ETHYLBENZENE	ND	20	23	115	23	115	0	19	52 - 142
O XYLENE	ND	20	24	120	23	115	4.26	18	53 - 143
M & P XYLENE	ND	40	46	115	47	118	2.58	17	53 - 144

Analyst: CJ
Sequence Date: 01/08/99
SPL ID of sample spiked: 9901059-01A
Sample File ID: S_A1161.TX0
Method Blank File ID:
Blank Spike File ID: S_A1156.TX0
Matrix Spike File ID: S_A1168.TX0
Matrix Spike Duplicate File ID: S_A1169.TX0

* = Values outside QC Range due to Matrix Interference (except RPD)
< = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL-Houston Historical Data (1st Q '97)
(***) = Source: SPL-Houston Historical Data (1st Q '97)

SAMPLES IN BATCH(SPL ID): 9901066-04A 9901067-03A 9901059-01A 9901059-04A 9901061-05A 9901059-05A

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL BATCH QUALITY CONTROL REPORT **

California LUFT Manual for Gasoline

Matrix: Aqueous

Batch Id: HP_S990107130910

Units: mg/L

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Gasoline Range Organics	ND	1.0	0.87	87.0	64 - 131

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	QC Limits(***) (Advisory) Recovery Range
GASOLINE RANGE ORGANICS	0.32	0.90	0.55	25.6 *	0.56	26.7 *	4.21	36	36 - 160

Analyst: CJ

Sequence Date: 01/07/99

SPL ID of sample spiked: 9901175-02A

Sample File ID: SSA1129.TX0

Method Blank File ID:

Blank Spike File ID: SSA1121.TX0

Matrix Spike File ID: SSA1125.TX0

Matrix Spike Duplicate File ID: SSA1126.TX0

* = Values outside QC Range due to Matrix Interference (except RPD)

« = Data outside Method Specification limits.

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

LCS % Recovery = (<1> / <3>) x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: SPL-Houston Historical data (1st Q '97)

(***) = Source: SPL-Houston Historical Data (1st Q '97)

SAMPLES IN BATCH(SPL ID): 9901061-04A 9901061-05A 9901059-01A 9901059-02A 9901059-03A 9901059-06A 9901059-07A 9901061-01A 9901061-02A 9901061-03A

CHAIN OF CUSTODY

AND

SAMPLE RECEIPT CHECKLIST

9901061

CHAIN OF CUSTODY

No. 100196

Page 1 of 1

CONSULTANT'S NAME	CONSULTANT'S ADDRESS
Blaine Tech S.	1680 Rogers Ave

BP SITE NUMBER	BP SITE / FACILITY ADDRESS	CONSULTANT PROJECT NUMBER
11132	3201 35th Street Oakland, CA	981230 R-2

CONSULTANT PROJECT MANGER	PHONE NUMBER	FAX NUMBER	CONSULTANT CONTRACT NUMBER

BP CONTACT	BP ADDRESS	PHONE NUMBER	FAX NO.

LAB CONTACT	LABORATORY ADDRESS	PHONE NUMBER	FAX NO.

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 804039443641

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE LAB SAMPLE #	TPH-G	BTEX	MTBE	[illegible]	COMMENTS
A	12/30/98	13:10	W	3			X	X	X		
B	12/30/98	13:51	W	3			X	X	X		
C	12/30/98	14:24	W	3			X	X	X		
D	12/30/98	13:39	W	3			X	X	X		
E	12/30/98	14:42	W	3			X	X	X		
~~RW-1~~	~~12/30/98~~	~~13:22~~	~~W~~	~~5~~			X	X	X	X	CANCEL

2°

SAMPLED BY (Please Print Name)	SAMPLED BY (Signature)	ADDITIONAL COMMENTS
Jim Rosa	Jim Rosa	

RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY /AFFILIATION (Print Name / Signature)	DATE	TIME
Jim Rosa, Jim Rosa	1/4/99	4:30			
			Tina Cockrum / SPL	1-5-99	1000

CLV-16722-A (2/97)
PKG/50

DISTRIBUTION: WHITE - ORIGINAL (WITH DATA) YELLOW - BP PINK - LAB BLUE - CONSULTANT FIELD STAFF

SPL Houston Environmental Laboratory

Sample Login Checklist

Date: 1-5-99	Time: 1000

SPL Sample ID: 9901061

			Yes	No
1	Chain-of-Custody (COC) form is present.		✓	
2	COC is properly completed.		✓	
3	If no, Non-Conformance Worksheet has been completed.			
4	Custody seals are present on the shipping container.		✓	
5	If yes, custody seals are intact.		✓	
6	All samples are tagged or labeled.		✓	
7	If no, Non-Conformance Worksheet has been completed.			
8	Sample containers arrived intact		✓	
9	Temperature of samples upon arrival:		3° C	
10	Method of sample delivery to SPL:	SPL Delivery		
		Client Delivery		
		FedEx Delivery (airbill #) 804039443641		
		Other:		
11	Method of sample disposal:	SPL Disposal	✓	
		HOLD		
		Return to Client		

Name: Tina Cockrum	Date: 1-5-99

Field
Data
Sheets

WELL GAUGING DATA

Project # 98 12 30 RZ Date: 12 30 98 Client: BP

Site 3201 35th Street Oakland

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	odor/sheen	19.12	0.03		19.50	free product	TOC	
MW-2	2	odor				17.70	34.40		skimmer
MW-3	2					16.63	34.43		
MW-4	2					19.69	39.45		
MW-5	2					14.65	29.90		
MW-6	2					14.45	34.50		
MW-7	2					18.33	34.38		
MW-8	2		15.43	0.05		15.48	39.28		
MW-9	2					15.61	29.28		
MW-10	2					16.65	34.00		
RW-1	6					17.35	38.35		

WELL MONITORING DATA SHEET

Project #: 98 12 30 R-2	Client: BP
Sampler: JR MA	Start Date: 12-30-98
Well I.D.: MW-1	Well Diameter: (2) 3 4 ~~6~~ 8 ____
Total Well Depth: 44.30	Depth to Water: 19.50
Before: After:	Before: After:
Depth to Free Product: 19.42	Thickness of Free Product (feet): 0.08
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer; Disposable Bailer X; Middleburg; Electric Submersible; Extraction Pump; Other: ____

Sampling Method: Bailer; Disposable Bailer; Extraction Port; Other: ____

1 Case Volume	Specified Volumes	Calculated Volume
3.9 (Gals.) X	3	= 11.7 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
13:56	63.5	6.9	1560	7200	~~12~~ 4	Odor/Sheen
13:59	64.1	6.8	1520	7200	8	
14:03	63.8	6.8	1510	7200	12	
		Emptied Skimmer ≈5mL FP				5. milliliter free product
			Bailed ≈	75 mL.	FP	

Did well dewater? Yes (No) Gallons actually evacuated: 12

Sampling Time: 14:10 Sampling Date: 12-30-98

Sample I.D.: [redacted] A Laboratory: SPL

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

Equipment Blank I.D.: @ Time Duplicate I.D.:

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

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

WELL MONITORING DATA SHEET

Project #: 98 12 30 R-2	Client: BP
Sampler: SR	Start Date: 12-30-98
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 34.40	Depth to Water: 17.70
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer / Disposable Bailer ✓ / Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / Disposable Bailer ✓ / Extraction Port / Other: _____

2.6 (Gals.) X 3 = 7.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
13:43	69.3	7.0	1783	7200	3.0	Odor Heavy
13:45	69.0	7.0	1765	7200	6.0	Sheen
13:48	68.8	7.0	1688	7200	9.0	Globules
		Emptied	Skimmer		0	

Did well dewater? Yes (No)	Gallons actually evacuated: 9
Sampling Time: 13:51	Sampling Date: 12-30-98
Sample I.D.: MW-2	Laboratory: SFL
Analyzed for: (TPH-G BTEX MTBE) TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:

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

WELL MONITORING DATA SHEET

Project #: 98 12 30 R-2	Client: BP
Sampler: SR	Start Date: 12/30/98
Well I.D.: MW-8	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 39.28	Depth to Water: 15.48
Before: After:	Before: After:
Depth to Free Product: 15.43	Thickness of Free Product (feet): 0.05
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer; Disposable Bailer X; Middleburg; Electric Submersible; Extraction Pump; Other: ____

Sampling Method: Bailer; Disposable Bailer X; Extraction Port; Other: ____

3.8 (Gals.) X	3	=	11.4 Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
14:15	69.8	8.4	378	7200	4.0	Odor/Heavy
14:18	68.9	7.9	354	7200	8.0	Sheen
14:20	68.7	8.0	305	7200	12.0	
			Bailed ≈ 50.0 ml FP			

Did well dewater? Yes (No)	Gallons actually evacuated: 12
Sampling Time: 14:24	Sampling Date: 12-30-98
Sample I.D.: ~~MW-8~~ C	Laboratory: SPL
Analyzed for: (TPH-G BTEX MTBE) TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:

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

WELL MONITORING DATA SHEET

Project #: 981230 R-2	Client: BP
Sampler: SR	Start Date: 12/30/98
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 29.28	Depth to Water: 15.61
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer / Disposable Bailer: X / Middleburg / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer / Disposable Bailer: X / Extraction Port / Other: ___

2.1 (Gals.) X 3 = 6.3 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.165

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
13:30	66.4	7.6	1404	>200	2.5	Globules of
13:33	65.8	7.6	1406	>200	5.0	FP
13:35	64.5	7.5	1389	>200	7.0	
		Emptied Skimmer - Ø				

Did well dewater? Yes (No) Gallons actually evacuated: 7.0

Sampling Time: 13:39 Sampling Date: 12/30/98

Sample I.D.: MW9D Laboratory: SPL

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

Equipment Blank I.D.: @ Time Duplicate I.D.:

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

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

WELL MONITORING DATA SHEET

Project #: 98 12 30 R-2	Client: BP
Sampler: SR	Start Date: 12/30/98
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 34.00	Depth to Water: 16.65
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer / Disposable Bailer X / Middleburg / Electric Submersible / Extraction Pump / Other: ____

Sampling Method: Bailer / Disposable Bailer X / Extraction Port / Other: ____

2.7 (Gals.) X 3 = 8.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
14:30	67.5	7.5	1339	>200	3	odor/Heavy
14:32	67.1	7.5	1310	>200	6	Sheen
14:35	67.1	7.4	1301	>200	9	Globs
	Emptied Skimmer & Bailer			20 ml	FP	

Did well dewater? Yes (No)	Gallons actually evacuated: 9
Sampling Time: 14:42	Sampling Date: 12-30-98
Sample I.D.: (MW-10) E	Laboratory: SPL
Analyzed for: (TPH-G BTEX MTBE) TPH-D	Other:
Equipment Blank I.D.: @ Time	Duplicate I.D.:
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:

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

WELL MONITORING DATA SHEET

Project #: 981230-R2	Client: BP
Sampler: SR	Start Date: 12/30/98
Well I.D.: RW1	Well Diameter: 2 3 4 (6) 8 ___
Total Well Depth: ~~TP~~ 38.35	Depth to Water: 17.35
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Extraction Pump, Other: ___

Sampling Method: Bailer, ~~Disposable Bailer~~, Extraction Port, Other: ___

30.8 (Gals.) X 3 = 92.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.165

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
13	Cannot	Pull Pump - Stuck in well. (Extraction				
	~~Attempted/Sampled~~			- CANCEL - NO SAMPLE		
13.20	68.7	6.9	750	~~7000~~ -	68	odor, Heavy sheen
	Bailer had product on it, but no measurable					
	amount in well.					

Did well dewater? Yes (No)		Gallons actually evacuated: —	
Sampling Time: 13:22		Sampling Date: 12-30-98	
Sample I.D.:		Laboratory: SRL	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other:	
Equipment Blank I.D.: @ Time		Duplicate I.D.:	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other:	
D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd): Pre-purge:	mV	Post-purge:	mV