

S. T. Hooton
Team Leader
Environmental Remediation Management



BP OIL

BP Exploration & Oil Inc.
295 SW 41st Street, Bldg., 13, STE N
Renton, WA 98055-4931
Phone: 425-251-0689
Fax: 425-251-0736

October 15, 1999

Alameda County Health Care Services Agency
Attention Ms. Eva Chu
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

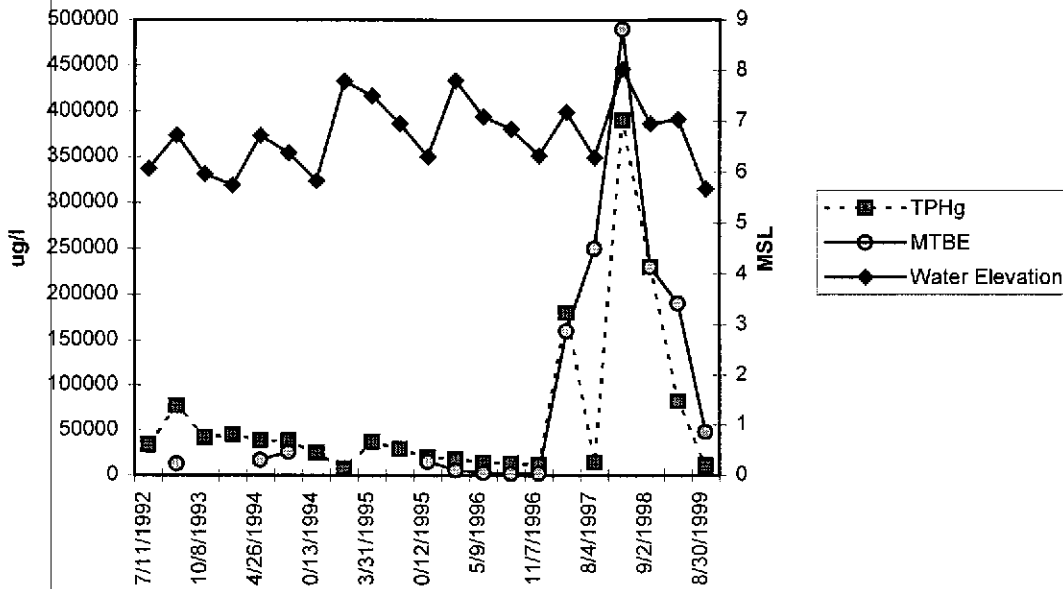
RE: Former BP Oil Site No. 11104
1716 Webster Street (at Buena Vista)
Alameda, CA

Dear Ms. Chu:

Enclosed find the 30 September 1999 *Third Quarter 1999 Groundwater Monitoring* report prepared by Blaine Tech Services on behalf of BP. The report summarizes chemical data obtained since 1992, including the results associated with samples obtained on 30 August 1999.

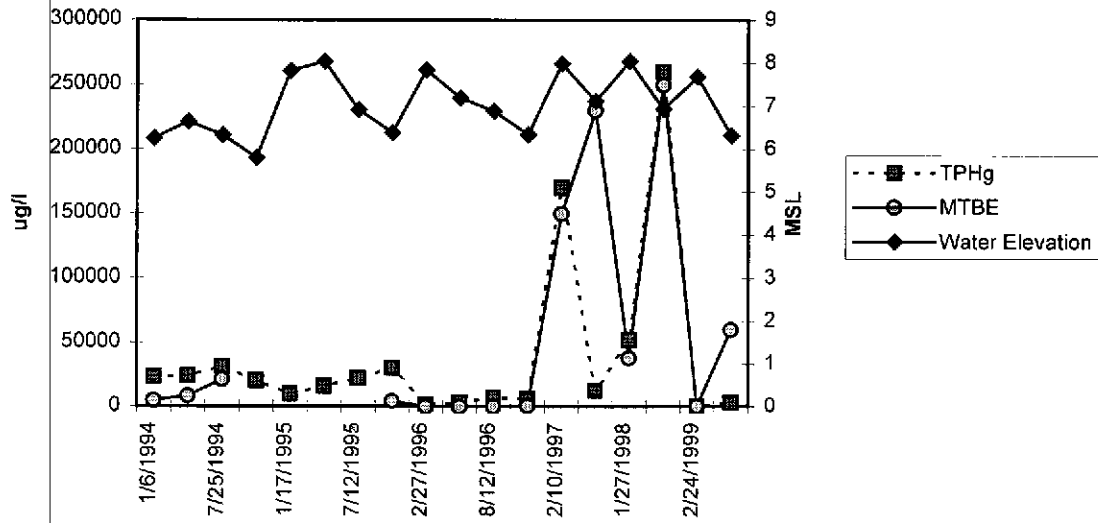
The report shows that aromatic petroleum hydrocarbons were detected in samples obtained in two of the wells sampled this quarter. The highest benzene concentration (2,100 ug/l) was detected in a sample obtained from well MW-1, located immediately adjacent to the underground storage tank area. MTBE concentrations were also reported in samples obtained from wells RW-1 (60,000 ug/l) and MW-1 (48,000 ug/l). TPHg and MTBE concentration trends are depicted on the graphs shown below.

MW-1 TPHg, MTBE & Water Elevation



99 OCT 21 PM 4: 28
ENVIRONMENTAL
PROTECTION

RW-1 TPHg, MTBE & Water Elevation



Please contact me at (425) 251-0689 if you have any questions or concerns regarding this submittal.

Sincerely,

Scott Hooton

attachment

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

BLAINE
TECH SERVICES INC.



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

September 30, 1999

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

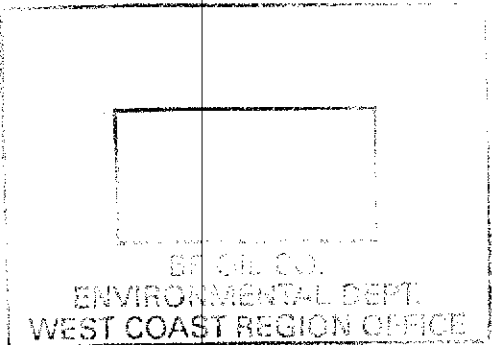
after GW extr. in June 1999, the nitrate conc. do look lower by order of magnitude but still high (60,000 ppb nitrate)
11104(3)

11/3/99 - dms underway to upgrade piping trenches (Nov 5?) - not much problem noted in trenches. Bot release in sump was obvious. However the concrete sump was removed & contractor did not observe soil contamination around sump.

3rd Quarter 1999 Monitoring at 11104

Third Quarter 1999 Groundwater Monitoring
BP Service Station Number 11104
1716 Webster Street
Alameda, CA

Monitoring Performed on August 30, 1999



Groundwater Sampling Report 990830-X-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.

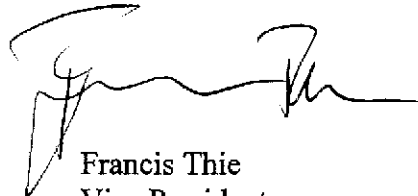
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The **Professional Engineering Appendix**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

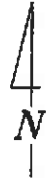
A handwritten signature in black ink, appearing to read 'Francis Thie', written over a horizontal line.

Francis Thie
Vice President

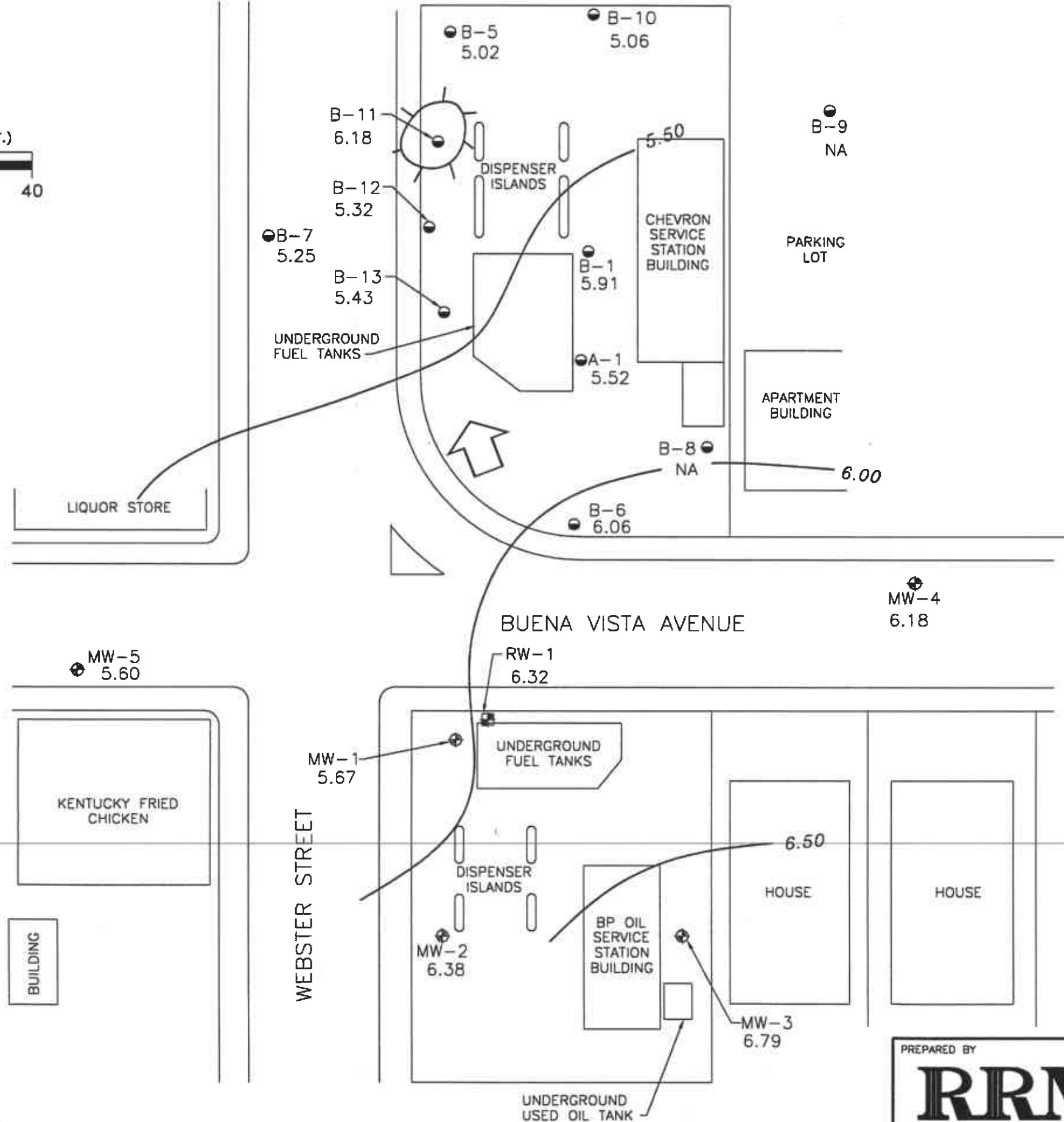
FPT/cm

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

Professional Engineering Appendix



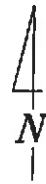
SCALE (FT.)



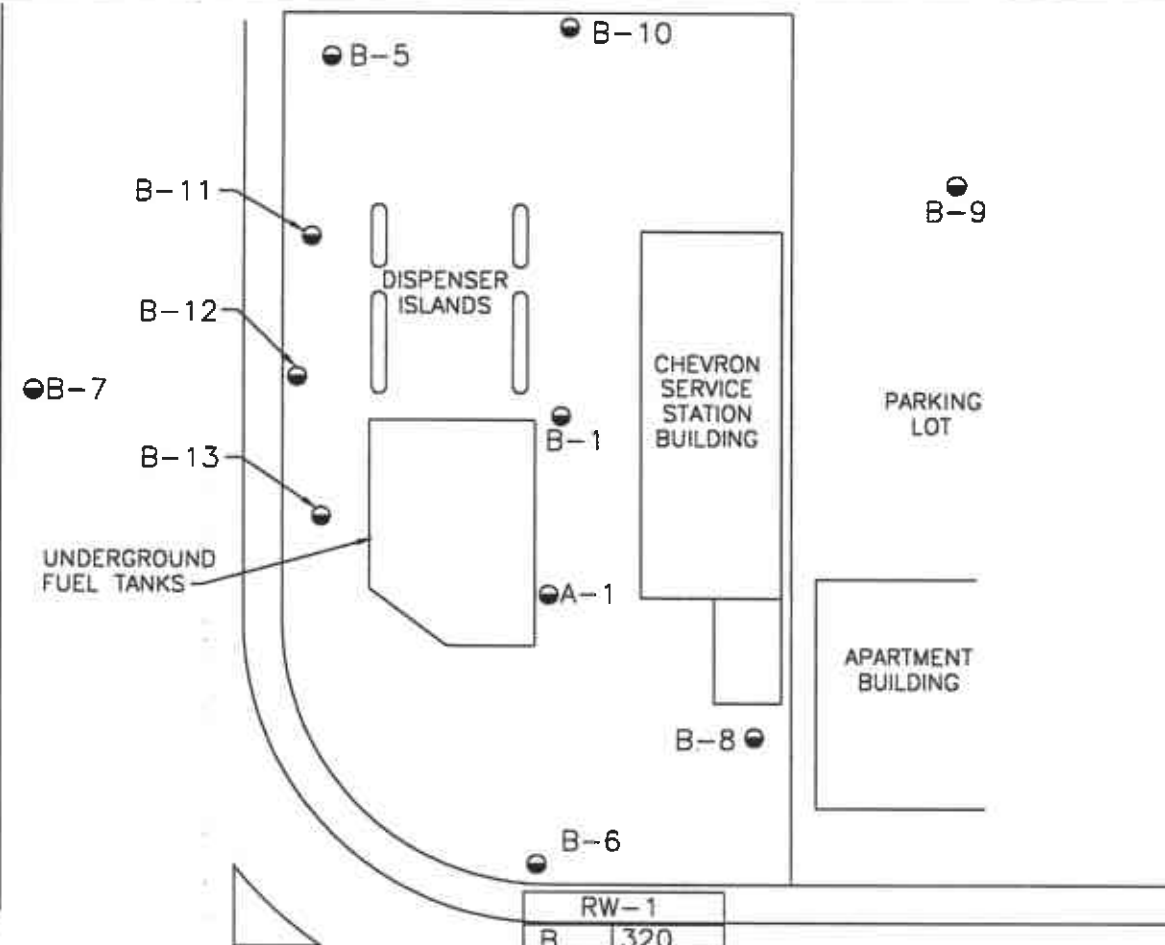
EXPLANATION

- BP OIL GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- CHEVRON GROUNDWATER MONITORING WELL
- 6.18 GROUNDWATER ELEVATION (FT, MSL)
- 6.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- NA DATA NOT AVAILABLE
- APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.006





SCALE (FT.)



EXPLANATION

- BP OIL GROUNDWATER MONITORING WELL
- GROUNDWATER RECOVERY WELL
- CHEVRON 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
- NA DATA NOT AVAILABLE

RW-1	
B	320
T	<25
E	120
X	28
TPHg	3100
MTBE	60000

MW-1	
B	2100
T	<25
E	1800
X	580
TPHg	11000
MTBE	48000

MW-5
NA

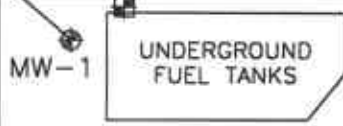


KENTUCKY FRIED CHICKEN

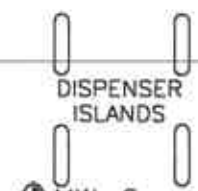


BUILDING

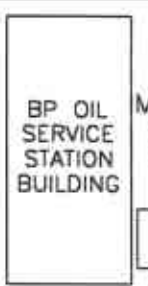
WEBSTER STREET



MW-1

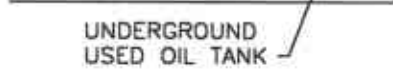


MW-2
NA



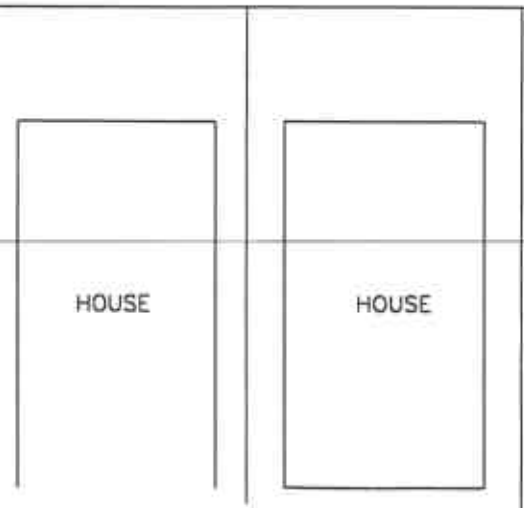
BP OIL SERVICE STATION BUILDING

MW-3
NA



UNDERGROUND USED OIL TANK

BUENA VISTA AVENUE



HOUSE

HOUSE



Ref. 11104btex.dwg
Base map from Aliso Engineering Group

PREPARED BY
RRM
 engineering contracting firm

HYDROCARBON CONCENTRATION MAP,
 AUGUST 30, 1999

BP Oil Service Station No. 11104
 1715 Webster Street
 Alameda, California

FIGURE:
 2
 PROJECT:
 DAC04

Table of Well Data and Analytical Results

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (mg/l)	DO (ppm)	LAB
MW-1	07/21/92	11.98	5.91	6.07	34000	7000	1700	2500	6900	---	---	---	---
MW-1	10/20/92	11.98	6.66	5.32	---	---	---	---	---	---	---	---	---
MW-1	03/05/93	11.98	4.56	7.42	---	---	---	---	---	---	---	---	---
MW-1	04/01/93	11.98	4.57	7.41	---	---	---	---	---	---	---	---	---
MW-1	07/09/93	11.98	5.25	6.73	77000	15000	1400	2100	7400	13,000	(c)	---	PACE
QC-1 (d)	07/09/93	---	---	---	79000	16000	1500	2200	7700	14,000	(c)	---	PACE
MW-1	10/08/93	11.98	6.01	5.97	42000	7100	270	2700	4700	---	---	---	PACE
MW-1	01/06/94	11.98	6.24	5.74	45000	12000	4300	3000	6700	---	---	---	PACE
MW-1	04/26/94	11.98	5.26	6.72	39000	6500	500	1800	1200	17000	(c)	6.3	PACE
MW-1	07/25/94	11.98	5.60	6.38	38000	6300	240	1500	1100	26000	(c)	1.7	PACE
MW-1	10/13/94	11.98	6.15	5.83	25000	6300	130	1300	830	---	---	2.3	PACE
QC-1 (d)	10/13/94	---	---	---	25000	7300	120	1200	740	---	---	---	PACE
MW-1	01/17/95	11.98	4.19	7.79	7800	3100	1100	460	850	---	---	7.9	ATI
QC-1 (d)	01/17/95	---	---	---	8400	3100	1200	470	1000	---	---	---	ATI
MW-1	03/31/95	11.98	4.48	7.50	37000	6700	6900	1200	4500	---	---	6.4	ATI
QC-1 (d)	03/31/95	---	---	---	40000	6900	7300	1300	5000	---	---	---	ATI
MW-1	05/01/95	11.98	4.39	7.59	---	---	---	---	---	---	---	---	---
MW-1	07/12/95	11.98	5.02	6.96	29000	7000	300	1500	3900	---	---	7.2	ATI
QC-1 (d)	07/12/95	---	---	---	29000	6600	380	1500	3900	---	---	---	ATI
MW-1	10/12/95	11.98	5.68	6.30	20000	3400	310	1100	3000	15000	---	6.3	ATI
QC-1 (d)	10/12/95	---	---	---	20000	3500	310	1100	3000	14000	---	---	ATI
MW-1	02/27/96	11.98	4.18	7.80	18000	4400	2900	860	2380	5500	472	7.9	SPL
MW-1	05/08/96	11.98	4.89	7.09	---	---	---	---	---	---	---	---	---
MW-1	05/09/96	11.98	---	---	14000	2300	1900	540	3340	2700	---	6.1	SPL
MW-1	08/09/96	11.98	5.13	6.85	---	---	---	---	---	---	---	---	---
MW-1	08/12/96	11.98	---	---	13000	2800	190	1300	3040	1800	---	7.1	SPL
MW-1	11/07/96	11.98	5.65	6.33	12000	2100	35	ND<25	ND<25	2100	---	7.2	SPL
MW-1	02/10/97	11.98	4.80	7.18	18000	1900	ND<500	ND<500	ND<500	16000	---	6.8	SPL
QC-1 (d)	02/10/97	---	---	---	18000	2100	ND<500	ND<500	ND<500	16000	---	---	SPL
MW-1	08/04/97	11.98	5.69	6.29	14000	2700	ND<50	1200	1220	25000	---	7.2	SPL
QC-1 (d)	08/04/97	---	---	---	ND<25000	2600	ND<50	1200	1100	26000	---	---	SPL
MW-1	01/27/98	11.98	3.96	8.02	39000	4400	4300	1600	2890	49000	---	6.4	SPL
MW-1	09/02/98	11.98	5.03	6.95	23000	3900	ND<50	1900	1000	23000	---	6.3	SPL
MW-1	02/24/99	11.98	4.94	7.04	82000	3000	520	2600	3200	190000/200000 (h)	---	---	SPL
MW-1	08/30/99	11.98	6.31	5.67	11000	2100	ND<25	1800	580	48000	---	---	SPL

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WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (mg/l)	DO (ppm)	LAB
MW-2	07/21/92	12.98	6.44	6.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-2	10/20/92	12.98	7.39	5.59	---	---	---	---	---	---	---	---	---
MW-2	03/05/93	12.98	4.91	8.07	---	---	---	---	---	---	---	---	---
MW-2	04/01/93	12.98	4.92	8.06	---	---	---	---	---	---	---	---	---
MW-2	07/09/93	12.98	5.60	7.38	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-2	10/08/93	12.98	6.50	6.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-1 (d)	10/08/93	12.98	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-2	01/06/94	12.98	6.25	6.73	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-2	04/26/94	12.98	5.73	7.25	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	7.5	PACE
MW-2	07/25/94	12.98	6.07	6.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	2.4	PACE
MW-2	10/13/94	12.98	6.80	6.18	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	2.4	PACE
MW-2	01/17/95	12.98	5.10	7.88	---	---	---	---	---	---	---	---	---
MW-2	03/31/95	12.98	4.69	8.29	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	7.3	ATI
MW-2	05/01/95	12.98	5.23	7.75	---	---	---	---	---	---	---	---	---
MW-2	07/12/95	12.98	5.40	7.58	---	---	---	---	---	---	---	---	---
MW-2	10/12/95	12.98	6.06	6.92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	6.9	ATI
MW-2	02/27/96	12.98	4.66	8.32	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	412	8.7	SPL
MW-2	05/08/96	12.98	5.28	7.70	---	---	---	---	---	---	---	---	---
MW-2	08/09/96	12.98	5.59	7.39	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	7.8	SPL
MW-2	11/07/96	12.98	6.11	6.87	---	---	---	---	---	---	---	---	---
MW-2	02/10/97	12.98	5.26	7.72	---	---	---	---	---	---	---	---	---
MW-2	08/04/97	12.98	6.14	6.84	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	6.5	SPL
MW-2	01/27/98	12.98	4.42	8.56	---	---	---	---	---	---	---	---	---
MW-2	09/02/98	12.98	5.47	7.51	100	0.56	3.6	ND<1.0	3.0	110	---	6.9	SPL
MW-2	02/24/99	12.98	5.12	7.86	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	8.2	---	---	SPL
MW-2	08/30/99	12.98	6.60	6.38	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (mg/l)	DO (ppm)	LAB
MW-3 (e)	07/21/92	13.38	7.07	6.31	ND<50	0.95	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-3	10/20/92	13.38	8.06	5.32	---	---	---	---	---	---	---	---	---
MW-3	03/05/93	13.38	5.16	8.22	---	---	---	---	---	---	---	---	---
MW-3	04/01/93	13.38	5.25	8.13	---	---	---	---	---	---	---	---	---
MW-3	07/09/93	13.38	5.80	7.58	ND<50	0.6	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-3	10/08/93	13.38	7.17	6.21	ND<50	0.6	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-3	01/06/94	13.38	6.94	6.44	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-3	04/26/94	13.38	6.18	7.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	3.1	PACE
MW-3	07/25/94	13.38	6.67	6.71	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	2.2	PACE
MW-3	10/13/94	13.38	7.43	5.95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	2.1	PACE
MW-3	01/17/95	13.38	5.07	8.31	---	---	---	---	---	---	---	---	---
MW-3	03/31/95	13.38	4.03	9.35	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	6.6	ATI
MW-3	05/01/95	13.38	4.94	8.44	---	---	---	---	---	---	---	---	---
MW-3	07/12/95	13.38	5.80	7.58	---	---	---	---	---	---	---	---	---
MW-3	10/12/95	13.38	6.64	6.74	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	6.4	ATI
MW-3	02/27/96	13.38	4.75	8.63	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	316	8.5	SPL
MW-3	05/08/96	13.38	5.86	7.52	---	---	---	---	---	---	---	---	---
MW-3	08/09/96	13.38	5.70	7.68	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	7.9	SPL
MW-3	11/07/96	13.38	6.21	7.17	---	---	---	---	---	---	---	---	---
MW-3	02/10/97	13.38	5.14	8.24	---	---	---	---	---	---	---	---	---
MW-3	08/04/97	13.38	6.01	7.37	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	6.6	SPL
MW-3	01/27/98	13.38	4.30	9.08	---	---	---	---	---	---	---	---	---
MW-3	09/02/98	13.38	5.80	7.58	ND<50	ND<0.5	2.2	ND<1.0	ND<1.0	ND<10	---	6.6	SPL
MW-3	02/24/99	13.38	4.34	9.04	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	---	---	SPL
MW-3	08/30/99	13.38	6.59	6.79	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (mg/l)	DO (ppm)	LAB
MW-4	03/05/93	11.80	4.81	6.99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-4	04/01/93	11.80	4.80	7.00	---	---	---	---	---	---	---	---	---
MW-4	07/09/93	11.80	5.54	6.26	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-4	10/08/93	11.80	6.28	5.52	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-4	01/06/94	11.80	5.82	5.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-4	04/26/94	11.80	5.50	6.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	7.4	PACE
MW-4	07/25/94	11.80	5.83	5.97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	7.2	PACE
MW-4	10/13/94	11.80	6.26	5.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	6.7	PACE
MW-4	01/17/95	11.80	4.19	7.61	---	---	---	---	---	---	---	---	---
MW-4	03/31/95	11.80	3.96	7.84	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	7.1	ATI
MW-4	05/01/95	11.80	4.49	7.31	---	---	---	---	---	---	---	---	---
MW-4	07/12/95	11.80	5.16	6.64	---	---	---	---	---	---	---	---	---
MW-4	10/12/95	11.80	5.80	6.00	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	6.9	ATI
MW-4	02/27/96	11.80	4.22	7.58	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	256	8.9	SPL
MW-4	05/08/96	11.80	5.00	6.80	---	---	---	---	---	---	---	---	---
MW-4	08/09/96	11.80	5.13	6.67	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	8.5	SPL
MW-4	11/07/96	11.80	5.65	6.15	---	---	---	---	---	---	---	---	---
MW-4	02/10/97	11.80	4.81	6.99	---	---	---	---	---	---	---	---	---
MW-4	08/04/97	11.80	5.72	6.08	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	6.4	SPL
MW-4	01/27/98	11.80	4.06	7.74	---	---	---	---	---	---	---	---	---
MW-4	09/02/98	11.80	4.89	6.91	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	5.8	SPL
MW-4	02/24/99	11.80	3.89	7.91	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	---	---	SPL
MW-4	08/30/99	11.80	5.62	6.18	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (mg/l)	DO (ppm)	LAB
MW-5	04/01/93	11.62	4.77	6.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-5	07/09/93	11.62	5.40	6.22	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-5	10/08/93	11.62	5.87	5.75	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-5	01/06/94	11.62	5.75	5.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-5	04/26/94	11.62	5.49	6.13	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	7.1	PACE
MW-5	07/25/94	11.62	5.69	5.93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	6.6	PACE
MW-5	10/13/94	11.62	6.03	5.59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	3.0	PACE
MW-5	01/17/95	11.62	4.74	6.88	---	---	---	---	---	---	---	---	---
MW-5	03/31/95	11.62	4.58	7.04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	7.1	ATI
MW-5	05/01/95	11.62	4.79	6.83	---	---	---	---	---	---	---	---	---
MW-5	07/12/95	11.62	5.32	6.30	---	---	---	---	---	---	---	---	---
MW-5	10/12/95	11.62	5.70	5.92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	6.7	ATI
MW-5 (f)	02/27/96	11.62	---	---	---	---	---	---	---	---	---	---	---
MW-5	05/08/96	11.62	4.91	6.71	---	---	---	---	---	---	---	---	---
MW-5	08/09/96	11.62	5.01	6.61	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	7.7	SPL
MW-5	11/07/96	11.62	5.54	6.08	---	---	---	---	---	---	---	---	---
MW-5	02/10/97	11.62	4.66	6.96	---	---	---	---	---	---	---	---	---
MW-5	08/04/97	11.62	5.51	6.11	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	6.9	SPL
MW-5	01/27/98	11.62	4.01	7.61	---	---	---	---	---	---	---	---	---
MW-5	09/02/98	11.62	5.17	6.45	ND<50	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	6.4	SPL
MW-5	02/24/99	11.62	4.52	7.10	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	---	---	SPL
MW-5	08/30/99	11.62	6.02	5.60	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (mg/l)	DO (ppm)	LAB
RW-1	01/06/94	11.84	5.59	6.25	23000	3800	210	840	2100	4600	(c) ---	---	PACE
QC-1 (d)	01/06/94	---	---	---	24000	3700	210	830	2000	4700	(c) ---	---	PACE
RW-1	04/26/94	11.84	5.21	6.63	24000	3500	120	800	1700	8100	(c) ---	6.4	PACE
QC-1 (d)	04/26/94	---	---	---	22000	3300	110	700	1700	6900	(c) ---	---	PACE
RW-1	07/25/94	11.84	5.52	6.32	31000	4800	290	1100	1700	21000	(c) ---	5.5	PACE
QC-1 (d)	07/25/94	---	---	---	28000	4400	240	960	1400	19000	(c) ---	---	PACE
RW-1	10/13/94	11.84	6.05	5.79	20000	4200	46	990	440	---	---	6.8	PACE
RW-1	01/17/95	11.84	4.02	7.82	9600	1500	65	300	2700	---	---	7.7	ATI
RW-1	03/31/95	11.84	3.81	8.03	16000	1500	780	370	2000	---	---	7.8	ATI
RW-1	05/01/95	11.84	4.21	7.63	---	---	---	---	---	---	---	---	---
RW-1	07/12/95	11.84	4.93	6.91	22000	3700	150	950	2800	---	---	7.2	ATI
RW-1	10/12/95	11.84	5.46	6.38	30000	1600	1500	1700	8500	4300	---	7.0	ATI
RW-1	02/27/96	11.84	4.00	7.84	1800	30	24	41	440	52	194	7.7	SPL
QC-1 (d)	02/27/96	---	---	---	1600	30	23	38	420	50	---	---	SPL
RW-1	05/08/96	11.84	4.65	7.19	---	---	---	---	---	---	---	---	---
RW-1	05/09/96	11.84	---	---	3200	19	19	97	800	ND<50	---	7.1	SPL
QC-1 (d)	05/09/96	---	---	---	2900	15	15	78	700	ND<50	---	---	SPL
RW-1	08/09/96	11.84	4.96	6.88	---	---	---	---	---	---	---	---	---
RW-1	08/12/96	11.84	---	---	6900	210	270	390	1920	ND<100	---	7.9	SPL
QC-1 (d)	08/12/96	---	---	---	8200	270	330	450	2330	ND<100	---	---	SPL
RW-1	11/07/96	11.84	5.50	6.34	6100	320	45	ND<10	ND<10	430	---	6.9	SPL
QC-1 (d)	11/07/96	---	---	---	6800	360	45	ND<10	ND<10	500	---	---	SPL
RW-1	02/10/97	11.84	3.85	7.99	170000	ND<120	ND<250	ND<250	ND<250	150000	---	6.7	SPL
RW-1	08/04/97	11.84	4.72	7.12	ND<25000	580	450	630	3700	230000	---	6.9	SPL
RW-1	01/27/98	11.84	3.80	8.04	52000	380	330	490	2970	38000	---	6.1	SPL
QC-1 (d)	01/27/98	---	---	---	51000	380	300	480	2980	36000	---	---	SPL
RW-1	09/02/98	11.84	4.91	6.93	260000	2500	56	1400	3070	250000	---	6.6	SPL
QC-1 (d)	09/02/98	---	---	---	280000	2400	ND<50	1400	3170	270000	---	---	SPL
RW-1	02/24/99	11.84	4.16	7.68	120	ND<1.0	ND<1.0	1.5	13	130/140	(h) ---	---	SPL
RW-1	08/30/99	11.84	5.52	6.32	3100	320	ND<25	120	28	60000	---	---	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (mg/l)	DO (ppm)	LAB
QC-2	(g) 07/09/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2	(g) 10/08/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2	(g) 01/06/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2	(g) 04/26/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2	(g) 07/25/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2	(g) 10/13/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2	(g) 01/17/95	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	ATI
QC-2	(g) 03/31/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	ATI
QC-2	(g) 07/12/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	ATI
QC-2	(g) 10/12/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	ATI
QC-2	(g) 02/27/96	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	SPL
QC-2	(g) 05/09/96	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	SPL

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 MTBE Methyl tert butyl ether
 TDS Total dissolved solids
 DO Dissolved oxygen
 ug/l Micrograms per liter
 mg/l Milligrams per liter
 ppm Parts per million
 --- Not applicable/available/analyzed/measured
 ND Not detected above reported detection limit
 PACE Pace, Inc.
 ATI Analytical Technologies, Inc.
 SPL Southern Petroleum Laboratories

NOTES:

- (a) Top of casing elevations surveyed in reference to USGS benchmark (14.108 feet above mean sea level) at northwest corner of Webster Street and Pacific Avenue.
- (b) Groundwater elevations in feet above mean sea level.
- (c) A copy of the documentation for this data is included in Appendix C of Alisto report 10-155-07-001.
- (d) Blind duplicate.
- (e) Sample also analyzed for cadmium, nickel, chromium, lead, and zinc. None were detected above the reported detection limit.
- (f) Well inaccessible.
- (g) Travel blank.
- (h) MTBE by EPA Methods 8020/8260

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF MONITORING	CASING ELEVATION (Feet) (a)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)
A-1	05/01/95	11.56	5.80	0.60	6.21
A-1	05/08/96	11.56	5.49	0.28	6.28
A-1	08/23/96	11.56	6.43	0.22	5.30
A-1	02/10/97	11.56	4.45	0.17	7.24
A-1	08/05/97	11.56	5.96	0.10	5.68
A-1	02/04/98	11.56	3.20	0.04	8.39
A-1	02/24/99	11.56	4.41	0.60	7.60
A-1	08/30/99	11.56	6.04	---	5.52
B-1	02/15/95	12.12	5.37	---	6.75
B-1	05/01/95	12.12	5.12	---	7.00
B-1	05/08/96	12.12	4.80	---	7.32
B-1	08/23/96	12.12	5.54	---	6.58
B-1	02/10/97	12.12	4.59	---	7.53
B-1	08/05/97	12.12	6.44	---	5.68
B-1	02/04/98	12.12	3.01	---	9.11
B-1	02/24/99	12.12	4.29	---	7.83
B-1	08/30/99	12.12	6.21	---	5.91
B-5	02/15/95	10.18	4.15	---	6.03
B-5	05/01/95	10.18	4.43	---	5.75
B-5	05/08/96	10.18	4.40	---	5.78
B-5	08/23/96	10.18	4.99	---	5.19
B-5	02/10/97	10.18	3.63	---	6.55
B-5	08/05/97	10.18	4.89	---	5.29
B-5	02/04/98	10.18	2.53	---	7.65
B-5	02/24/99	10.18	3.39	---	6.79
B-5	08/30/99	10.18	5.16	---	5.02
B-6	02/15/95	11.97	4.70	---	7.27
B-6	05/01/95	11.97	5.03	---	6.94
B-6	05/08/96	11.97	5.23	---	6.74
B-6	08/23/96	11.97	6.05	---	5.92
B-6	02/10/97	11.97	4.37	---	7.60
B-6	08/05/97	11.97	5.75	---	6.22
B-6	02/04/98	11.97	2.71	---	9.26
B-6	02/24/99	11.97	4.18	---	7.79
B-6	08/30/99	11.97	5.91	---	6.06
B-7	02/15/95	10.54	4.22	---	6.32
B-7	05/01/95	10.54	4.50	---	6.04
B-7	08/23/96	10.54	---	---	---
B-7	02/10/97	10.54	---	---	---
B-7	08/05/97	10.54	---	---	---
B-7	02/04/98	10.54	---	---	---
B-7	02/24/99	10.54	3.30	---	7.24
B-7	08/30/99	10.54	5.29	---	5.25
B-8	02/15/95	11.99	4.72	---	7.27
B-8	05/01/95	11.99	5.00	---	6.99
B-8	08/23/96	11.99	---	---	---
B-8	02/10/97	11.99	---	---	---
B-8	08/05/97	11.99	---	---	---
B-8	02/04/98	11.99	---	---	---
B-8	02/24/99	11.99	4.23	---	7.76

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING

WELL ID	DATE OF MONITORING	CASING ELEVATION (Feet) (a)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)
B-9	02/15/95	10.70	3.61	---	7.09
B-9	05/01/95	10.70	4.29	---	6.41
B-9	08/23/96	10.70	---	---	---
B-9	02/10/97	10.70	---	---	---
B-9	08/05/97	10.70	---	---	---
B-9	02/04/98	10.70	---	---	---
B-10	05/08/96	11.42	5.55	---	5.87
B-10	08/23/96	11.42	6.19	---	5.23
B-10	02/10/97	11.42	4.58	---	6.84
B-10	08/05/97	11.42	6.30	---	5.12
B-10	02/04/98	11.42	2.89	---	8.53
B-10	02/24/99	11.42	4.23	---	7.19
B-10	08/30/99	11.42	6.36	---	5.06
B-11	05/08/96	11.98	5.00	---	6.98
B-11	08/23/96	11.98	5.61	---	6.37
B-11	02/10/97	11.98	4.07	---	7.91
B-11	08/05/97	11.98	5.60	---	6.38
B-11	02/04/98	11.98	2.59	---	9.39
B-11	02/24/99	11.98	4.19	---	7.79
B-11	08/30/99	11.98	5.80	---	6.18
B-12	05/08/96	11.16	5.08	---	6.08
B-12	08/23/96	11.16	5.65	---	5.51
B-12	02/10/97	11.16	4.11	---	7.05
B-12	08/05/97	11.16	5.61	---	5.55
B-12	02/04/98	11.16	2.63	---	8.53
B-12	02/24/99	11.16	4.00	---	7.16
B-12	08/30/99	11.16	5.84	---	5.32
B-13	05/08/96	11.17	4.97	---	6.20
B-13	08/23/96	11.17	5.63	---	5.54
B-13	02/10/97	11.17	4.12	---	7.05
B-13	08/05/97	11.17	5.65	---	5.52
B-13	02/04/98	11.17	2.69	---	8.48
B-13	02/24/99	11.17	4.03	---	7.14
B-13	08/30/99	11.17	5.74	---	5.43

NOTES:

- (a) Top of casing elevations surveyed relative to 1929 NGVD.
Measured in feet above mean sea level.
- (b) Groundwater elevations assuming a specific gravity of 0.75 for separate-phase product.
- Not measured.

Analytical Appendix



HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

September 8, 1999

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

The following report contains analytical results for the sample(s) received at Southern Petroleum Laboratories (SPL) on September 1, 1999. The sample(s) was assigned to Certificate of Analysis No. (s) 9909023 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 result 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

A handwritten signature in cursive script that reads 'Sonia West'. The signature is written in black ink and is positioned above a horizontal line.

Sonia West
Senior Project Manager



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 680-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 99-09-023

Approved for Release by:

Sonia West

Sonia West, Senior Project Manager

9-8-99

Date

Joel Grice
Laboratory Director

Ted Yen
Corporate Quality Assurance Director

The attached analytical data package may not be reproduced except in full without the express written approval of this laboratory.
The results relate only to the samples tested.
Results reported on a Wet Weight Basis unless otherwise noted.



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

Certificate of Analysis No. H9-9909023-02

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

P.O.#
 N/A, COC#118682
 DATE: 09/08/99

PROJECT: #11104, 1716 Webster Street
 SITE: Alameda
 SAMPLED BY: Blaine Tech Services
 SAMPLE ID: A

PROJECT NO: 990830-X2
 MATRIX: WATER
 DATE SAMPLED: 08/30/99 14:40:00
 DATE RECEIVED: 09/01/99

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	60000	250 P	ug/L
BENZENE	320	25 P	ug/L
TOLUENE	ND	25 P	ug/L
ETHYLBENZENE	120	25 P	ug/L
TOTAL XYLENE	28	25 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	468		ug/L

Surrogate

% Recovery

1,4-Difluorobenzene 127
 4-Bromofluorobenzene 100

Method 8020A ***

Analyzed by: WLR

Date: 09/07/99

Gasoline Range Organics

3.1 1.2 P

mg/L

Surrogate

% Recovery

1,4-Difluorobenzene 89
 4-Bromofluorobenzene 97

California LUFT Manual for Gasoline

Analyzed by: CJ

Date: 09/02/99 23:56:00

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

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. H9-9909023-01

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

P.O.#
 N/A, COC#118682
 DATE: 09/08/99

PROJECT: #11104, 1716 Webster Street
 SITE: Alameda
 SAMPLED BY: Blaine Tech Services
 SAMPLE ID: B

PROJECT NO: 990830-X2
 MATRIX: WATER
 DATE SAMPLED: 08/30/99 15:00:00
 DATE RECEIVED: 09/01/99

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	48000	250 P	ug/L
BENZENE	2100	25 P	ug/L
TOLUENE	ND	25 P	ug/L
ETHYLBENZENE	1800	25 P	ug/L
TOTAL XYLENE	580	25 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	4480		ug/L

Surrogate % Recovery
 1,4-Difluorobenzene 116
 4-Bromofluorobenzene 100

Method 8020A ***
 Analyzed by: WLR
 Date: 09/07/99

Gasoline Range Organics 11 1.2 P mg/L

Surrogate % Recovery
 1,4-Difluorobenzene 91
 4-Bromofluorobenzene 96

California LUFT Manual for Gasoline
 Analyzed by: CJ
 Date: 09/02/99 23:27:00

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

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



Matrix: Aqueous
Units: ug/L

Batch Id: HP_S990902110500

LABORATORY CONTROL SAMPLE

S P I K E C O M P O U N D S	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
MTBE	ND	50	44	88.0	72 - 128
Benzene	ND	50	45	90.0	61 - 119
Toluene	ND	50	46	92.0	65 - 125
EthylBenzene	ND	50	46	92.0	70 - 118
O Xylene	ND	50	47	94.0	72 - 117
M & P Xylene	ND	100	93	93.0	72 - 116

MATRIX SPIKES

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
			MTBE	25	20	43		90.0	43
BENZENE	ND	20	18	90.0	17	85.0	5.71	21	32 - 164
TOLUENE	ND	20	18	90.0	18	90.0	0	20	38 - 159
ETHYLBENZENE	ND	20	18	90.0	18	90.0	0	19	52 - 142
O XYLENE	ND	20	18	90.0	18	90.0	0	18	53 - 143
M & P XYLENE	ND	40	36	90.0	36	90.0	0	17	53 - 144

* = 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)

Analyst: CJ

Sequence Date: 09/02/99

SPL ID of sample spiked: 9909033-01A

Sample File ID: S_H5068.TX0

Method Blank File ID:

Blank Spike File ID: S_H5060.TX0

Matrix Spike File ID: S_H5063.TX0

Matrix Spike Duplicate File ID: S_H5064.TX0

SAMPLES IN BATCH (SPL ID):

9908917-02A 9908995-05A 9909023-01A 9909023-02A
 9909033-02A 9909062-01A 9909012-01A 9908995-04A
 9908917-01A 9909012-03A 9908995-05A 9908917-02A
 9908995-06A 9909012-02A 9909012-04A 9909023-01A
 9909023-02A 9909033-01A 9909012-04A 9909012-02A
 9909012-03A 9908917-01A



Matrix: Aqueous
Units: mg/L

Batch Id: HP_S990902114600

LABORATORY CONTROL SAMPLE

S P I K E C O M P O U N D S	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Gasoline Range Organics	ND	1.0	0.71	71.0	64 - 131

MATRIX SPIKES

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
			GASOLINE RANGE ORGANICS	0.05	0.90	0.92			

Analyst: CJ

Sequence Date: 09/02/99

SPL ID of sample spiked: 9909012-04A

Sample File ID: SSH5069.TX0

Method Blank File ID:

Blank Spike File ID: SSH5061.TX0

Matrix Spike File ID: SSH5065.TX0

Matrix Spike Duplicate File ID: SSH5066.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 = $[(<1> - <2>) / <3>] \times 100$

LCS % Recovery = $(<1> / <3>) \times 100$

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

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

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

SAMPLES IN BATCH(SPL ID):

9908917-01A 9908917-02A 9908995-04A 9908995-05A
9908995-06A 9909023-01A 9909023-02A 9909012-04A
9909012-01A 9909012-02A 9909012-03A

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST



9909023

CHAIN OF CUSTODY

No. 118682

CONSULTANT'S NAME Blain Tech Services, Inc.		CONSULTANT'S ADDRESS 1680 Rogers Ave., San Jose, CA 95112		CONSULTANT PROJECT NUMBER 990830-X2	
BP SITE NUMBER 11104		BP SITE / FACILITY ADDRESS 1716 Webster Street, Alameda		CONSULTANT CONTRACT NUMBER	
CONSULTANT PROJECT MANGER Doug Sanders		PHONE NUMBER (408) 573-0555 X218		FAX NUMBER (408) 573-7771	
BP CONTACT Scott Hooton		BP ADDRESS 295 SW 41st St., Renton, WA		PHONE NUMBER (425) 251-0689	
LAB CONTACT SPL - Sonia West		LABORATORY ADDRESS P.O. Box 20807, Houston, TX		PHONE NUMBER (800) 969-6775	
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

AMBI BILL NUMBER: **8069490455-16**

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	TPHC	BTEX	MTBE										COMMENTS
				NO.	TYPE (VOL.)														
████ B	8-30-99	15:00	Water	3	40mL		X	X	X										
████ A	↓	14:40	↓	↓	40mL		↓	↓	↓										

SAMPLED BY (Please Print Name) Kevin Carlin				SAMPLED BY (Signature) <i>[Signature]</i>				ADDITIONAL COMMENTS 20			
RELINQUISHED BY / AFFILIATION (Print Name / Signature) <i>[Signature]</i> / Kevin Carlin		DATE 8/31/99	TIME 16:45	ACCEPTED BY / AFFILIATION (Print Name / Signature) [Signature]		DATE 9/1/99	TIME 1000				

SPL Houston Environmental Laboratory

Sample Login Checklist

Date: <u>9/1/99</u>	Time: <u>1000</u>
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SPL Sample ID: <u>9909023</u>

		<u>Yes</u>	<u>No</u>
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:	<u>2° C</u>	
10	Method of sample delivery to SPL:	SPL Delivery	
		Client Delivery	
		FedEx Delivery (airbill #)	<u>806949045516</u>
		Other:	
11	Method of sample disposal:	SPL Disposal	✓
		HOLD	
		Return to Client	

Name: <u></u>	Date: <u>9/1/99</u>
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Field Data Sheets

BP WELL MONITORING DATA SHEET

Project #:	990830-x2	Job #	11104
Sampler:	16.C.	Date:	8-30-99
Well I.D.:	MW-1	Well Diameter:	② 3 4 6 8 _____
Total Well Depth:	16.60	Depth to Water:	6.31
Depth to Free Product:		Thickness of Free Product (feet):	
Referenced to:	(PVC) Grade	D.O. Meter (if req'd):	YSI HACH

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

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

1.6	x	3	=	4.8	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
14:48	71.8	7.1	1063	—	1.5	
14:51	71.2	7.1	1068	—	3.0	
14:54	71.0	7.0	1069	—	5.0	

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: 5.0
Sampling Time: 15:00	Sampling Date: 8-30-99
Sample I.D.: B	Laboratory: (SPL) Other: _____

Analyzed for: (TPH-D) (BTEX) (MTBE) (TPH-D) Other: _____			
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV

BP WELL MONITORING DATA SHEET

Project #: <u>990830-X2</u>	Job #: <u>11104</u>
Sampler: <u>h.c.</u>	Date: <u>8-30-99</u>
Well I.D.: <u>2W-1</u>	Well Diameter: 2 3 4 <u>6</u> 8
Total Well Depth: 21.57 <u>21.57</u>	Depth to Water: <u>5.52</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

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

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

<u>23.5</u>	x	<u>3</u>	=	<u>70.5</u>	Gals.
Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
14:30	71.4	7.5	966.5	—	20	
14:32	73.0	7.3	942.3	—	45	
14:34	73.1	7.2	961.2	—	71	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: <u>71</u>
Sampling Time: <u>14:40</u>	Sampling Date: <u>8-30-99</u>
Sample I.D.: 2W-1 <u>A</u>	Laboratory: <u>SPL</u> Other _____
Analyzed for: <input checked="" type="checkbox"/> TPH-G <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> TPH-D Other:	
D.O. (if req'd):	Pre-purge: <input type="checkbox"/> mg/L Post-purge: <input type="checkbox"/> mg/L
O.R.P. (if req'd):	Pre-purge: <input type="checkbox"/> mV Post-purge: <input type="checkbox"/> mV