S. T. Hooton
Team Leader
Environmental Remediation Management

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

BP OIL

Received
11/18/99

September 28, 1999

Alameda County Health Care Services Agency
Attention Mr. Amir K. Gholami - REHS
1131 Harbor Bay Parkway, STE 250
Alameda, CA 94502-6677

STID 780

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

Dear Mr. Gholami:

This transmits the *Third Quarter 1999 Groundwater Monitoring* report prepared on behalf of BP by Blaine Tech Services. The report summarizes chemical data obtained since 1992, including results associated with samples obtained on 20 July 1999.

The enclosed report shows that aromatic petroleum hydrocarbons and TPHg was not detected in samples obtained from the four wells sampled on 20 July 1999. The highest MTBE concentrations are associated with samples obtained from well MW-6. Please contact me at (425) 251-0689 if you have questions.

Sincerely,

Scott Hooton

attachment

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

99 OCT -4 PM 4:37
ENVIRONMENTAL PROTECTION

BLAINE
TECH SERVICES inc.

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

September 15, 1999

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

3rd Quarter 1999 Monitoring at 11107

Third Quarter 1999 Groundwater Monitoring
BP Service Station Number 11107
18501 Hesperian Boulevard
San Lorenzo, CA

Monitoring Performed on July 20, 1999

Groundwater Sampling Report **990720-D-1**

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.

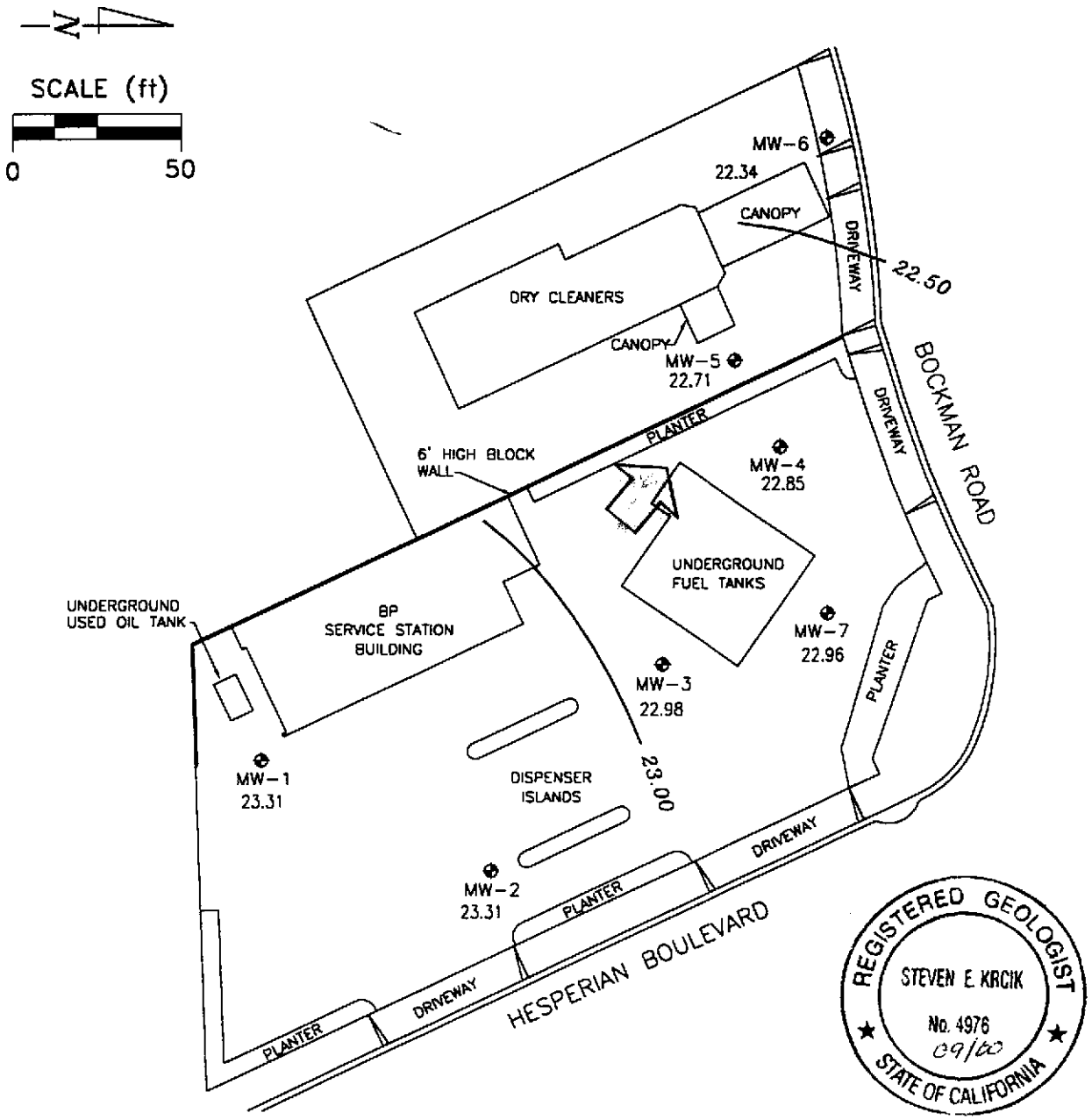
Yours truly,

Francis Thie
Vice President

FPT/ck

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

Professional Engineering Appendix

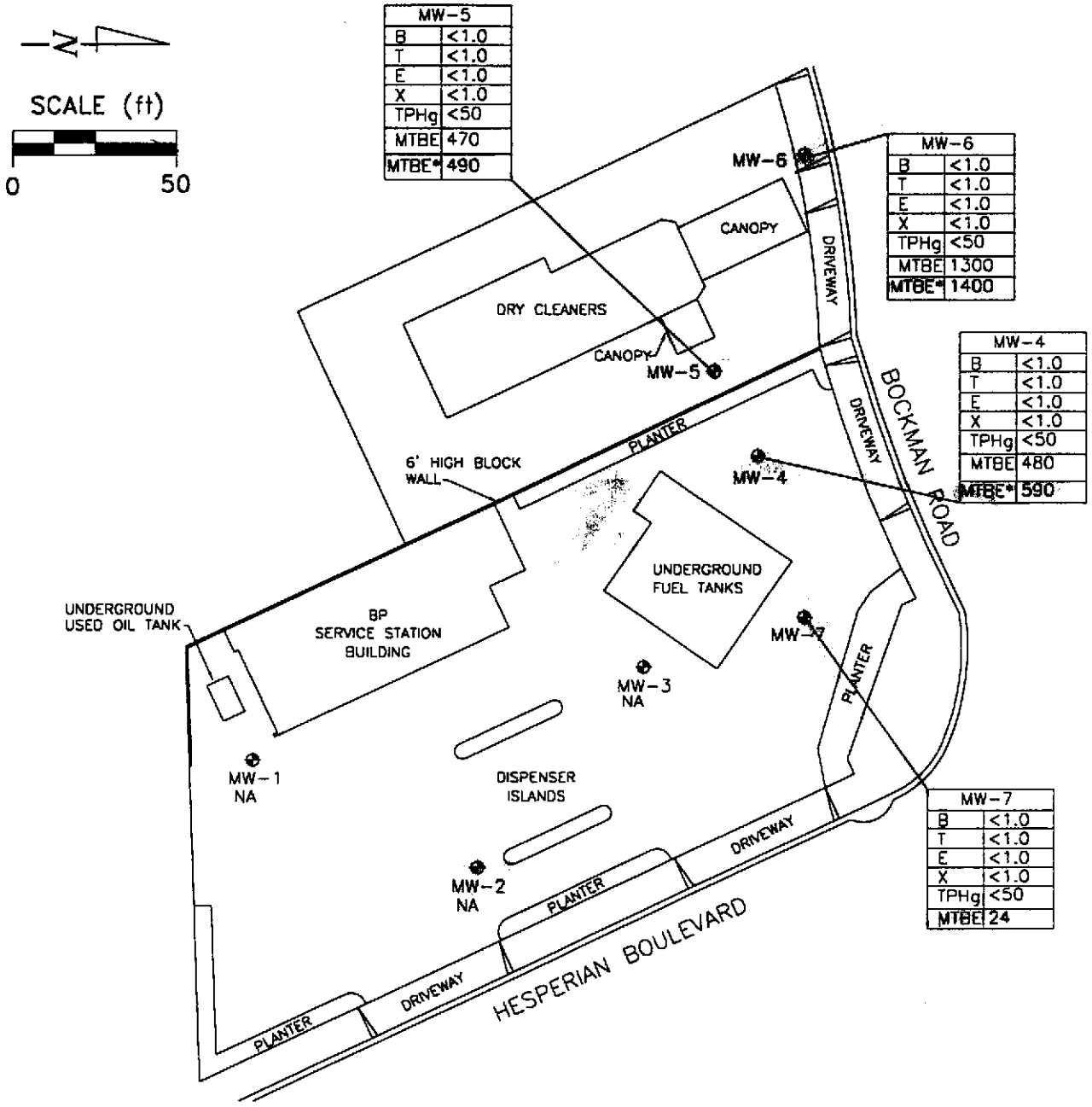


EXPLANATION

- ⊕ GROUNDWATER MONITORING WELL
- 23.31 GROUNDWATER ELEVATION (FT, MSL)
- 22.50 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.004

Ref. 111107bm.dwg
Basemap from Alisto Engineering Group

PREPARED BY		
RRM engineering contracting firm	**BP Service Station No. 11107** 18501 Hesperian Boulevard San Lorenzo, California	FIGURE: 1
	GROUNDWATER ELEVATION CONTOUR MAP, JULY 20, 1999	PROJECT: DAC04



EXPLANATION

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

Ref. 111107btex.dwg
Basemap from Alisto Engineering Group

PREPARED BY
RRM
engineering contracting firm

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

HYDROCARBON CONCENTRATION MAP, JULY 20, 1999

FIGURE: 2

PROJECT: DAC04

Table of
Well Data and
Analytical Results

Table 1 - Summary of Results of Groundwater Sampling

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

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1,1-TCA (ug/l)	PCE (ug/l)	DO (ppm)	LAB
MW-2	11/04/92	40.56	20.16	20.40	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
MW-2	02/24/94	40.56	20.12	20.44	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
MW-2	05/12/94	40.56	17.49	23.07	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	7.4	PACE
MW-2	09/09/94	40.56	21.12	19.44	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	2.1	PACE
MW-2	11/03/94	40.56	19.36	21.20	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	4.2	PACE
MW-2	03/01/95	40.56	16.83	23.73	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	2.2	AT'
MW-2	06/06/95	40.56	16.96	23.60	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	09/01/95	40.56	17.54	23.02	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	7.9	ATI
MW-2	11/29/95	40.56	18.19	22.37	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	03/23/96	40.56	16.35	24.21	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	8.5	SPL
MW-2	09/05/96	40.56	17.55	23.01	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	3.2	SPL
MW-2	03/11/97	40.56	16.95	23.61	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	2.9	SPL
MW-2	12/08/97	40.56	16.01	24.55	ND<50	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	---	---	---	3.0	SPL
MW-2	07/08/98	40.56	16.41	24.15	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	12/07/98	40.56	17.15	23.41	---	---	---	---	---	---	---	---	---	---	---	SPL
MW-2	01/19/99	40.56	17.15	23.41	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	04/23/99	40.56	16.89	23.67	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	07/20/99	40.56	17.25	23.31	---	---	---	---	---	---	---	---	---	---	---	---

Table 1 - Summary of Results of Groundwater Sampling

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

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (b) (ug/l)	TPH-D (ug/l)		B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)		TOG (ug/l)	1,1,1-TCA (ug/l)	PCE (ug/l)	DO (ppm)	LAB
MW-4	11/04/92	39.24	19.18	20.06	900	---		150	4.1	0.8	53	---		---	---	---	---	PACE
MW-4	02/24/94	39.24	19.22	20.02	240	---		110	3.8	1.8	11	1400	(d)	---	---	---	---	PACE
QC-1 (c)	02/24/94	---	---	---	310	---		95	5.3	2.2	17	1500	(d)	---	---	---	---	PACE
MW-4	05/12/94	39.24	16.62	22.62	ND<50	---		2.2	1.0	ND<0.5	ND<0.5	860	(d)	---	---	---	7.3	PACE
QC-1 (c)	05/12/94	---	---	---	430	---		2.6	1.3	ND<0.5	ND<0.5	780	(d)	---	---	---	---	PACE
MW-4	09/09/94	39.24	20.27	18.97	240	---		9.1	1.3	0.6	2.5	---		---	---	---	2.2	PACE
QC-1 (c)	09/09/94	---	---	---	57	---		1.7	ND<0.5	ND<0.5	0.5	---		---	---	---	---	PACE
MW-4	11/03/94	39.24	18.46	20.78	250	---		3.1	2.8	1.0	3.3	---		---	---	---	3.2	PACE
QC-1 (c)	11/03/94	---	---	---	110	---		2.4	ND<0.5	ND<0.5	ND<0.5	---		---	---	---	---	PACE
MW-4	03/01/95	39.24	16.15	23.09	8900	---		1800	26	450	400	---		---	---	---	2.0	ATI
QC-1 (c)	03/01/95	---	---	---	7600	---		1700	25	410	370	---		---	---	---	---	ATI
MW-4	06/06/95	39.24	16.28	22.96	3100	---	(e)	530	25	170	85	---		---	---	---	---	ATI
QC-1 (c)	06/06/95	---	---	---	3000	---		530	27	170	92	---		---	---	---	---	ATI
MW-4 (f)	09/01/95	39.24	---	---	---	---		---	---	---	---	---		---	---	---	---	---
MW-4	11/29/95	39.24	17.31	21.93	ND<50	---		1.8	ND<0.50	ND<0.50	ND<1.0	440		---	---	---	3.2	ATI
QC-1 (c)	11/29/95	---	---	---	ND<50	---		1.5	ND<0.50	ND<0.50	ND<1.0	490		---	---	---	---	ATI
MW-4	03/23/96	39.24	15.74	23.50	2700	---		480	ND<25	180	176	13000		---	---	---	7.8	SPL
MW-4	09/05/96	39.24	16.75	22.49	1100	---		ND<12	ND<25	ND<25	ND<25	3200		---	---	---	4.0	SPL
MW-4	03/11/97	39.24	16.10	23.14	2400	---		46	ND<10	66	106	3400		---	---	---	4.0	SPL
MW-4	12/08/97	39.24	15.96	23.28	590	---		11	ND<1.0	ND<1.0	ND<1.0	1200		---	---	---	4.4	SPL
QC-1 (c)	12/08/97	---	---	---	620	---		11	ND<1.0	ND<1.0	ND<1.0	1100		---	---	---	---	SPL
MW-4	07/08/98	39.24	16.28	22.96	1700	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	1200		---	---	---	3.9	SPL
QC-1 (c)	07/08/98	---	---	---	1600	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	1100		---	---	---	---	SPL
MW-4	12/07/98	39.24	16.47	22.77	530	---		ND<2.5	ND<5.0	ND<5.0	ND<5.0	680/910	(h)	---	---	---	---	SPL
MW-4	01/19/99	39.24	16.40	22.84	570	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	660		---	---	---	---	SPL
MW-4	04/23/99	39.24	16.17	23.07	ND<50	---		ND<1.0	ND<1.0	1.8	1.3	1100/810	(h)	---	---	---	---	SPL
MW-4	07/20/99	39.24	16.39	22.85	ND<50	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	480		---	---	---	---	SPL

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)		B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)		TOG (ug/l)	1,1,1-TCA (ug/l)	PCE (ug/l)	DO (ppm)	LAB
MW-5	06/06/95	39.07	16.16	22.91	1100	---	(e)	42	ND<2.5	15	4.0	---		---	---	---	---	ATI
MW-5	09/01/95	39.07	16.63	22.44	1600	---		55	ND<2.5	15	8.0	1200		---	---	---	7.4	ATI
QC-1 (c)	09/01/95	---	---	---	1200	---		64	ND<2.5	14	3.1	---		---	---	---	---	ATI
MW-5	11/29/95	39.07	17.19	21.88	2300	---		140	4.0	36	11	1500		---	---	---	4.1	ATI
MW-5	03/23/96	39.07	15.54	23.53	90	---		2.8	ND<1	ND<1	ND<1	1500		---	---	---	7.5	SPL
MW-5	09/05/96	39.07	16.72	22.35	2300	---		5.1	ND<1.0	ND<1.0	ND<1.0	3300		---	---	---	3.2	SPL
QC-1 (c)	09/05/96	---	---	---	2000	---		4.9	ND<1.0	ND<1.0	ND<1.0	2900		---	---	---	---	SPL
MW-5	03/11/97	39.07	16.12	22.95	470	---		ND<5.0	ND<5.0	ND<5.0	ND<5.0	580		---	---	---	3.0	SPL
QC-1 (c)	03/11/97	---	---	---	460	---		ND<5.0	ND<5.0	ND<5.0	ND<5.0	540		---	---	---	---	SPL
MW-5	12/08/97	39.07	15.85	23.22	370	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	840		---	---	---	3.0	SPL
MW-5	07/08/98	39.07	16.11	22.96	430	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	330		---	---	---	2.5	SPL
MW-5	12/07/98	39.07	16.27	22.80	220	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	290/410	(h)	---	---	---	---	SPL
MW-5	01/19/99	39.07	16.31	22.76	490	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	490/440	(h)	---	---	---	---	SPL
MW-5	04/23/99	39.07	16.00	23.07	ND<50	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	310/210	(h)	---	---	---	---	SPL
MW-5	07/20/99	39.07	16.36	22.71	ND<50	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	470		---	---	---	---	SPL

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)		B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)		TOG (ug/l)	1,1,1-TCA (ug/l)	PCE (ug/l)	DO (ppm)	LAB
MW-6	03/01/95	38.46	15.66	22.80	270	---		11	ND<0.50	ND<0.50	ND<1.0	---		---	---	---	1.6	ATI
MW-6	06/06/95	38.46	15.82	22.64	220	---	(e)	2.3	ND<0.50	ND<0.50	ND<1.0	---		---	---	---	---	ATI
MW-6	09/01/95	38.46	16.25	22.21	780	---		ND<2.5	ND<2.5	ND<2.5	ND<5.0	2800		---	---	---	7.5	ATI
MW-6	11/29/95	38.46	16.80	21.66	ND<50	---		ND<0.50	ND<0.50	ND<0.50	ND<1.0	1100		---	---	---	3.9	ATI
MW-6	03/23/96	38.46	15.27	23.19	50	---		ND<0.5	ND<1	ND<1	ND<1	910		---	---	---	8.0	SPL
MW-6	09/05/96	38.46	16.30	22.16	4400	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	7400		---	---	---	3.0	SPL
MW-6	03/11/97	38.46	15.75	22.71	1100	---		ND<5.0	ND<5.0	ND<5.0	ND<5.0	2000		---	---	---	3.1	SPL
MW-6	12/08/97	38.46	15.51	22.95	150	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	140		---	---	---	3.4	SPL
MW-6	07/08/98	38.46	15.78	22.68	370	---		ND<0.5	ND<1.0	ND<1.0	ND<1.0	250		---	---	---	3.6	SPL
MW-6	12/07/98	38.46	15.95	22.51	440	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	630/820	(h)	---	---	---	---	---
MW-6	01/19/99	38.46	15.97	22.49	950	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	950/810	(h)	---	---	---	---	SPL
MW-6	04/23/99	38.46	15.74	22.72	ND<50	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	310/220	(h)	---	---	---	---	SPL
MW-6	07/20/99	38.46	16.12	22.34	ND<50	---		ND<1.0	ND<1.0	ND<1.0	ND<1.0	1300		---	---	---	---	SPL

Table 1 - Summary of Results of Groundwater Sampling

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

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	1,1,1-TCA (ug/l)	PCE (ug/l)	DO (ppm)	LAB
QC-2 (g)	11/04/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
QC-2 (g)	11/04/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
QC-2 (g)	03/01/95	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	---	---	---	---	---	PACE
QC-2 (g)	05/12/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
QC-2 (g)	09/09/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
QC-2 (g)	11/03/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---	PACE
QC-2 (g)	06/06/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	---	ATI
QC-2 (g)	09/01/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	---	ATI
QC-2 (g)	11/29/95	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	---	---	ATI
QC-2 (g)	03/23/96	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	---	SPL

Table 1 - Summary of Results of Groundwater Sampling

WELL ID	DATE OF SAMPLING/ MONITORING	1,2-DCA by 8010 (ug/l)	EDB by 8010 (ug/l)	MTBE by 8260 (ug/l)	DIPE by 8260 (ug/l)	ETBE by 8260 (ug/l)	TBA by 8260 (ug/l)	TAME by 8260 (ug/l)
MW-4	07/20/99	ND<1.0	ND<1.0	590	ND<10	ND<5.0	ND<500	ND<5.0
MW-5	07/20/99	---	---	490	ND<10	ND<10	ND<500	ND<10
MW-6	07/20/99	---	---	1400	ND<10	ND<10	ND<500	ND<10

ABBREVIATIONS:

TPH-G	Total petroleum hydrocarbons as gasoline
TPH-D	Total petroleum hydrocarbons as diesel
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total xylenes
MTBE	Methyl tert butyl ether
TOG	Total oil and grease
1,1,1-TCA	1,1,1-Trichloroethane
PCE	Tetrachloroethene
1,2-DCA	1,2-Dichloroethane
EDB	1,2-Bibromoethane
DIPE	Di-isopropyl Ether
ETBE	tert-Butyl Ethyl Ether
TBA	t-Butyl Alcohol
TAME	tert-Amyl Methyl Ether
DO	Dissolved oxygen
ug/l	Micrograms per liter
ppm	Parts per million
ND	Not detected above reported detection limit
---	Not measured/analyzed/applicable
PACE	Pace, Inc.
ATI	Analytical Technologies, Inc.
SPL	Southern Petroleum Laboratories

NOTES:

(a) Top of casing elevations surveyed relative to an established benchmark with an elevation of 39.95 feet above mean sea level.

(b) Groundwater elevations in feet above mean sea level.

(c) Blind duplicate.

(d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-060-07-001.

(e) MTBE peak present. See documentation in Appendix C of Alisto report 10-060-07-001.

(f) Well inaccessible.

(g) Travel blank.

Analytical Appendix

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

August 2, 1999

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

The following report contains analytical results for the sample(s) received at Southern Petroleum Laboratories (SPL) on July 22, 1999. The sample(s) was assigned to Certificate of Analysis No. (s) 9907828 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

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: 99-07-828

Approved for Release by:

Sonia West
Sonia West, Senior Project Manager

8-4-99
Date

Joel Grice
Laboratory Director

Ted Yen
Corporate Quality Assurance Director

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

Certificate of Analysis No. H9-9907828-01

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

P.O.# N/A, COC#118682
DATE: 08/02/99

PROJECT: #11107, 18501 Hesperian
SITE: San Lorenzo
SAMPLED BY: Blaine Tech Services
SAMPLE ID: A

PROJECT NO: 990720-D1
MATRIX: WATER
DATE SAMPLED: 07/20/99 11:17:00
DATE RECEIVED: 07/22/99

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	24	1.0 P	ug/L
BENZENE	ND	1.0 P	ug/L
TOLUENE	ND	1.0 P	ug/L
ETHYLBENZENE	ND	1.0 P	ug/L
TOTAL XYLENE	ND	1.0 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	100		
4-Bromofluorobenzene	100		
Method 8020A ***			
Analyzed by: CJ			
Date: 07/30/99			
Gasoline Range Organics	ND	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	90		
4-Bromofluorobenzene	93		
California LUFT Manual for Gasoline			
Analyzed by: CJ			
Date: 07/30/99 19:40:00			

(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. H9-9907828-02

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

P.O.#
N/A, COC#118682
DATE: 08/02/99

PROJECT: #11107, 18501 Hesperian
SITE: San Lorenzo
SAMPLED BY: Blaine Tech Services
SAMPLE ID: B

PROJECT NO: 990720-D1
MATRIX: WATER
DATE SAMPLED: 07/20/99 12:30:00
DATE RECEIVED: 07/22/99

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	1300	10 P	ug/L
BENZENE	ND	1.0 P	ug/L
TOLUENE	ND	1.0 P	ug/L
ETHYLBENZENE	ND	1.0 P	ug/L
TOTAL XYLENE	ND	1.0 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	100		
4-Bromofluorobenzene	97		
Method 8020A ***			
Analyzed by: CJ			
Date: 08/01/99			
Gasoline Range Organics	ND	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	93		
4-Bromofluorobenzene	97		
California LUFT Manual for Gasoline			
Analyzed by: CJ			
Date: 07/30/99 20:10:00			

(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.

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

Certificate of Analysis No. H9-9907828-02

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

P.O.#
N/A, COC#118682
08/02/99

PROJECT: #11107, 18501 Hesperian
SITE: San Lorenzo
SAMPLED BY: Blaine Tech Services
SAMPLE ID: B

PROJECT NO: 990720-D1
MATRIX: WATER
DATE SAMPLED: 07/20/99 12:30:00
DATE RECEIVED: 07/22/99

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Methyl t-Butyl Ether	1400	100	ug/L
Di-isopropyl Ether	ND	10	ug/L
tert-Butyl Ethyl Ether	ND	10	ug/L
t-Butyl Alcohol	ND	500	ug/L
tert-Amyl Methyl Ether	ND	10	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	50 ug/L	90	80	120
Toluene-d8	50 ug/L	92	88	110
4-Bromofluorobenzene	50 ug/L	100	86	115

ANALYZED BY: LT DATE/TIME: 07/23/99 12:39:00
METHOD: 8260 Water, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

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. H9-9907828-03

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

P.O.# N/A, COC#118682
DATE: 08/02/99

PROJECT: #11107, 18501 Hesperian
SITE: San Lorenzo
SAMPLED BY: Blaine Tech Services
SAMPLE ID: C

PROJECT NO: 990720-D1
MATRIX: WATER
DATE SAMPLED: 07/20/99 11:59:00
DATE RECEIVED: 07/22/99

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	470	1.0 P	ug/L
BENZENE	ND	1.0 P	ug/L
TOLUENE	ND	1.0 P	ug/L
ETHYLBENZENE	ND	1.0 P	ug/L
TOTAL XYLENE	ND	1.0 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	100		
4-Bromofluorobenzene	100		
Method 8020A ***			
Analyzed by: CJ			
Date: 08/01/99			
Gasoline Range Organics	ND	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	90		
4-Bromofluorobenzene	97		
California LUFT Manual for Gasoline			
Analyzed by: CJ			
Date: 07/30/99 20:41:00			

(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.

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

Certificate of Analysis No. H9-9907828-03

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

P.O.#
N/A, COC#118682
08/02/99

PROJECT: #11107, 18501 Hesperian
SITE: San Lorenzo
SAMPLED BY: Blaine Tech Services
SAMPLE ID: C

PROJECT NO: 990720-D1
MATRIX: WATER
DATE SAMPLED: 07/20/99 11:59:00
DATE RECEIVED: 07/22/99

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Methyl t-Butyl Ether	490	50	ug/L
Di-isopropyl Ether	ND	10	ug/L
tert-Butyl Ethyl Ether	ND	10	ug/L
t-Butyl Alcohol	ND	500	ug/L
tert-Amyl Methyl Ether	ND	10	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	50 ug/L	92	80	120
Toluene-d8	50 ug/L	92	88	110
4-Bromofluorobenzene	50 ug/L	100	86	115

ANALYZED BY: LT DATE/TIME: 07/23/99 13:06:00
METHOD: 8260 Water, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

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. H9-9907828-04

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

P.O.#
N/A, COC#118682
DATE: 08/02/99

PROJECT: #11107, 18501 Hesperian
SITE: San Lorenzo
SAMPLED BY: Blaine Tech Services
SAMPLE ID: D

PROJECT NO: 990720-D1
MATRIX: WATER
DATE SAMPLED: 07/20/99 11:30:00
DATE RECEIVED: 07/22/99

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	480	5.0 P	ug/L
BENZENE	ND	1.0 P	ug/L
TOLUENE	ND	1.0 P	ug/L
ETHYLBENZENE	ND	1.0 P	ug/L
TOTAL XYLENE	ND	1.0 P	ug/L
TOTAL VOLATILE AROMATIC HYDROCARBONS	ND		ug/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	100		
4-Bromofluorobenzene	100		
Method 8020A ***			
Analyzed by: CJ			
Date: 07/31/99			
Gasoline Range Organics	ND	0.05 P	mg/L
Surrogate	**% Recovery**		
1,4-Difluorobenzene	90		
4-Bromofluorobenzene	93		
California LUFT Manual for Gasoline			
Analyzed by: CJ			
Date: 08/02/99 00:02:00			

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

Certificate of Analysis No. H9-9907828-04

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

P.O.# N/A, COC#118682
08/02/99

PROJECT: #11107, 18501 Hesperian
SITE: San Lorenzo
SAMPLED BY: Blaine Tech Services
SAMPLE ID: D

PROJECT NO: 990720-D1
MATRIX: WATER
DATE SAMPLED: 07/20/99 11:30:00
DATE RECEIVED: 07/22/99

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
1,2-Dichloroethane	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
SURROGATES	**% RECOVERY**		
Fluorobenzene	97		

ANALYZED BY: YN DATE/TIME: 07/29/99 04:06:00
METHOD: Mod. 8021B (VOC) [SW 846]
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

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. H9-9907828-04

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

P.O.#
N/A, COC#118682
08/02/99

PROJECT: #11107, 18501 Hesperian
SITE: San Lorenzo
SAMPLED BY: Blaine Tech Services
SAMPLE ID: D

PROJECT NO: 990720-D1
MATRIX: WATER
DATE SAMPLED: 07/20/99 11:30:00
DATE RECEIVED: 07/22/99

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Methyl t-Butyl Ether	590	50	ug/L
Di-isopropyl Ether	ND	10	ug/L
tert-Butyl Ethyl Ether	ND	5	ug/L
t-Butyl Alcohol	ND	500	ug/L
tert-Amyl Methyl Ether	ND	5	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1,2-Dichloroethane-d4	50 ug/L	88	80	120
Toluene-d8	50 ug/L	92	88	110
4-Bromofluorobenzene	50 ug/L	98	86	115

ANALYZED BY: LT DATE/TIME: 07/23/99 13:34:00
METHOD: 8260 Water, Volatile Organics
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

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_S990729181100

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	45	90.0	72 - 128
Benzene	ND	50	41	82.0	61 - 119
Toluene	ND	50	41	82.0	65 - 125
EthylBenzene	ND	50	41	82.0	70 - 118
O Xylene	ND	50	42	84.0	72 - 117
M & P Xylene	ND	100	82	82.0	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	220	20	230	NC	240	NC	NC	20	39 - 150
BENZENE	310	20	270	NC	270	NC	NC	21	32 - 164
TOLUENE	1.1	20	21	99.5	21	99.5	0	20	38 - 159
ETHYLBENZENE	8.8	20	26	86.0	26	86.0	0	19	52 - 142
O XYLENE	ND	20	20	100	21	105	4.88	18	53 - 143
M & P XYLENE	7.8	40	44	90.5	45	93.0	2.72	17	53 - 144

Analyst: CJ
Sequence Date: 07/29/99
SPL ID of sample spiked: 9907826-07A
Sample File ID: S_G4077.TX0
Method Blank File ID:
Blank Spike File ID: S_G4069.TX0
Matrix Spike File ID: S_G4072.TX0
Matrix Spike Duplicate File ID: S_G4073.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):

9907826-06A 9907826-10A 9907826-05A 9907826-12A
9907826-04A 9907826-08A 9907826-11A 9907828-01A
9907828-02A 9907828-04A 9907826-09A 9907826-07A
9907826-01A 9907826-02A 9907826-03A

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_S990730220800

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	43	86.0	72 - 128
Benzene	ND	50	42	84.0	61 - 119
Toluene	ND	50	42	84.0	65 - 125
EthylBenzene	ND	50	41	82.0	70 - 118
O Xylene	ND	50	42	84.0	72 - 117
M & P Xylene	ND	100	82	82.0	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	22	110	22	110	0	20	39 - 150
BENZENE	ND	20	19	95.0	19	95.0	0	21	32 - 164
TOLUENE	1.0	20	23	110	23	110	0	20	38 - 159
ETHYLBENZENE	ND	20	18	90.0	18	90.0	0	19	52 - 142
O XYLENE	ND	20	19	95.0	19	95.0	0	18	53 - 143
M & P XYLENE	ND	40	35	87.5	34	85.0	2.90	17	53 - 144

Analyst: CJ
Sequence Date: 07/30/99
SPL ID of sample spiked: 9907A18-01A
Sample File ID: S_G4136R.TX0
Method Blank File ID:
Blank Spike File ID: S_G4109.TX0
Matrix Spike File ID: S_G4170.TX0
Matrix Spike Duplicate File ID: S_G4171.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):

9907828-04A 9907828-02A 9907828-03A 9907A82-02A
9907A78-01A 9907A78-02A 9907A78-03A 9907A78-04A
9907A78-05A 9907A78-06A 9907A78-07A 9907A78-08A
9907A82-03A 9907A82-01A 9907A82-02A

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_S990729221800

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	0.73	73.0	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	ND	0.90	0.63	70.0	0.64	71.1	1.56	36	36 - 160

Analyst: CJ

Sequence Date: 08/02/99

SPL ID of sample spiked: 9907826-09A

Sample File ID: SSG4078.TX0

Method Blank File ID:

Blank Spike File ID: SSH1003.TX0

Matrix Spike File ID: SSG4074.TX0

Matrix Spike Duplicate File ID: SSG4075.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):

9907826-06A 9907826-10A 9907826-05A 9907826-12A
9907826-04A 9907826-08A 9907826-11A 9907828-01A
9907828-02A 9907828-03A 9907828-04A 9907826-07A
9907826-09A 9907826-01A 9907826-02A 9907826-03A

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

** SPL BATCH QUALITY CONTROL REPORT **
Method 8021B ***

Matrix: Aqueous
Units: ug/L

Batch Id: HP_X990728132511

L A B O R A T O R Y C O N T R O L S A M P L E

S P I K E C O M P O U N D S	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
1,2-Dichloroethane	ND	20	18	90.0	70 - 130
1,2-Dibromoethane	ND	20	20	100	70 - 130

M A T R I X S P I K E S

S P I K E C O M P O U N D S	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
1,2-DICHLOROETHANE	ND	20	23	115	23	115	0	13	75 - 123
1,2-DIBROMOETHANE	ND	20	26	130	25	125	3.92	33	67 - 135

Analyst: YN
Sequence Date: 07/28/99
SPL ID of sample spiked: 9907887-03A
Sample File ID: XXG3074.TX0
Method Blank File ID:
Blank Spike File ID: XXG3067.TX0
Matrix Spike File ID: XXG3068.TX0
Matrix Spike Duplicate File ID: XXG3069.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: Default limits 8021B
(***) = Source: SPL Historicals for 1st Qtr.'97

SAMPLES IN BATCH(SPL ID): 9907826-02B 9907828-04B

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SPL Contract:

Lab Code: Case No.: 9907828 SAS No.: SDG No.:

Matrix Spike - EPA Sample No.: D

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	45	90	61-145
Trichloroethene	50	0	53	106	71-120
Benzene	50	0	50	100	76-127
Toluene	50	0	43	86	76-125
Chlorobenzene	50	0	46	92	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	42	84	7	14	61-145
Trichloroethene	50	49	98	8	14	71-120
Benzene	50	46	92	8	11	76-127
Toluene	50	40	80	7	13	76-125
Chlorobenzene	50	43	86	7	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits due to matrix interference

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

SPL Houston Labs

RECOVERY REPORT

Client Name: Client SDG: l990723
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: METHSPIKE-8260W/1X
Level: LOW Operator: LT
Data Type: MS DATA SampleType: METHSPIKE
SpikeList File: 8260_water.spk Quant Type: ISTD
Sublist File: 8260_lcs.sub
Method File: /var/chem/l.i/l990723.b/l8260aw.m
Misc Info: L204W1/L204B01/L204CW1

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
8 1,1-Dichloroethene	50	44	88.00	61-145
29 Trichloroethene	50	54	108.00	71-120
25 Benzene	50	50	100.00	76-127
37 Toluene	50	46	92.00	76-125
45 Chlorobenzene	50	49	98.00	75-130

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 21 1,2-Dichloroethane	50	46	92.00	80-120
$ 36 Toluene-d8	50	47	94.00	88-110
$ 56 Bromofluorobenzene	50	50	100.00	86-115

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

SPL Blank QC Report

Matrix: Aqueous
Sample ID: VLBLK
Batch: L990723104642

Reported on: 07/29/99 11:18
Analyzed on: 07/23/99 10:50
Analyst: LT

METHOD 8260 L204B01

Compound	Result	Detection Limit	Units
Methyl t-Butyl Ether	ND	10	ug/L
t-Butyl Alcohol	ND	500	ug/L
Di-isopropyl Ether	ND	10	ug/L
tert-Butyl Ethyl Ether	ND	10	ug/L
tert-Amyl Methyl Ether	ND	10	ug/L

Surrogate	Result	QC Criteria	Units
1,2-Dichloroethane-d4	90	80-120	% Recovery
Toluene-d8	92	88-110	% Recovery
Bromofluorobenzene	100	86-115	% Recovery

Samples in Batch 9907828-02 9907828-03 9907828-04

Notes
ND - Not detected.

CHAIN OF CUSTODY

AND

SAMPLE RECEIPT CHECKLIST

9907828

CHAIN OF CUSTODY

No. 118682

Page 1 of 1

CONSULTANT'S NAME	CONSULTANT'S ADDRESS		CONSULTANT PROJECT NUMBER
Blain Tech Services, Inc.	1680 Rogers Ave., San Jose, CA 95112		990720-01
BP SITE NUMBER: 11107	BP SITE / FACILITY ADDRESS: 18501 Hesperian, San Lorenzo		
CONSULTANT PROJECT MANGER: ~~Doug Sanders~~ Magan Hargrave	PHONE NUMBER: (408)573-0555 X218	FAX NUMBER: (408)573-7771	CONSULTANT CONTRACT NUMBER
BP CONTACT: Scott Hooton	BP ADDRESS: 295 SW 41st St., Renton, WA	PHONE NUMBER: (425)251-0689	FAX NO.: (425)251-0736
LAB CONTACT: SPL - Sonia West	LABORATORY ADDRESS: P.O. Box 20807, Houston, TX	PHONE NUMBER: (800)969-6775	FAX NO.: (713)660-8975
BP CONTACT REQUESTING RUSH TAT (Print BP Contact Name)	RUSH REQUESTED OF (Print Consultant Contact Name)	DATE/TIME	SHIPMENT DATE / SHIPMENT METHOD / AIRBILL NUMBER

TAT: ☐ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ Standard 7 or 14 Days — As Contracted

ANALYSIS REQUIRED

SAMPLE DESCRIPTION	COLLECTION DATE	COLLECTION TIME	MATRIX SOIL/WATER	CONTAINERS NO.	CONTAINERS TYPE (VOL.)	PRESERVATIVE	LAB SAMPLE #	TPH-G, MTBE, BTEX	1,2 DCA & EDB by 8010	Ether oxygenates by 8260	COMMENTS
A ✓	7-20-99	11:17	water	3	HCl			X			
B ✓		12:30		6	40 ml			X		X	
C ✓		11:59		6				X		X	
D ✓		11:30		9				X	+	X	

SAMPLED BY (Please Print Name): Layne Rowe

SAMPLED BY (Signature): Layne Rowe

ADDITIONAL COMMENTS: 4°C

813420764759

RELINQUISHED BY / AFFILIATION (Print Name / Signature)	DATE	TIME	ACCEPTED BY / AFFILIATION (Print Name / Signature)	DATE	TIME
Layne Rowe	7/21/99	4:15			
			[signature]	7/22/99	1000

CLV-18722-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: 7/22/99	Time: 1000

SPL Sample ID: 9907828

			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:		4° C	
10	Method of sample delivery to SPL:	SPL Delivery		
		Client Delivery		
		FedEx Delivery (airbill #)	813420764759	
		Other:		
11	Method of sample disposal:	SPL Disposal		
		HOLD		
		Return to Client		

Name:	Date:

Field
Data
Sheets

WELL GAUGING DATA

Project # 990720-01 Date 7-20-99 Client BP 11107

Site 16501 Hesperian blvd, San Lorenzo CA.

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2					17.76	30.69	TOC	
MW-2	2					17.25	24.90		
MW-3	2					17.47	25.07		
MW-4	2					16.39	25.21		D
MW-5	2					16.36	24.55		C
MW-6	2					16.12	24.95		B
MW-7	2					16.54	24.45		A

WELL MONITORING DATA SHEET

Project #: 990720.01	Client: BP 11107
Sampler: Layne	Start Date: 7-20-99
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 25.21	Depth to Water: 16.39
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: ___

1.4 (Gals.) X 3 = 4.2 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
11:22	69.2	6.8	903	>200	1.5	
11:25	69.0	6.8	905	184	3	
11:28	69.2	6.8	908	>200	4.5	

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Time: 11:30 Sampling Date: 7-20-99

Sample I.D.: D Laboratory: SPL

Analyzed for: (TPH-G BTEX MTBE) TPH-D Other: 1,2 DCA & EDB by 8010 Ether oxygenates by 8260

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 #: 990720-01	Client: BP 11107
Sampler: Layne	Start Date: 7-20-99
Well I.D.: MW-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.55	Depth to Water: 16.36
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: ___

1.3 (Gals.) X 3 = 3.9 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
11:45	68.3	6.9	887	>200	1.5	
11:50	67.7	6.8	887	>200	3	
11:55	67.4	6.8	886	>200	4	

Did well dewater? Yes (No)	Gallons actually evacuated: 4
Sampling Time: 11:59	Sampling Date: 7-20-99
Sample I.D.: C	Laboratory: SPL
Analyzed for: (TPH-G BTEX MTBE) TPH-D	Other: Ether oxygenates by 8260
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 #: 990720-01	Client: BP 11107
Sampler: Lance	Start Date: 7-20-99
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.95	Depth to Water: 16.12
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: ___

1.4 (Gals.) X 3 = 4.2 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
12:15	67.6	7.0	903	>200	1.5	
12:20	67.3	6.8	900	>200	3	
12:25	67.2	6.8	898	>200	4.5	

Did well dewater? Yes (No)	Gallons actually evacuated: 4.5
Sampling Time: 12:30	Sampling Date: 7-20-99
Sample I.D.: B	Laboratory: SPL
Analyzed for: (TPH-G BTEX MTBE) TPH-D	Other: Ether oxygenates by 8260
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 #: 990720-01	Client: BP 11107
Sampler: Layne	Start Date: 7-20-99
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.45	Depth to Water: 16.54
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: ___

1.3 (Gals.) X 3 = 3.9 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
11:10	68.8	6.7	1056	>200	1.5	
11:13	68.0	6.8	899	>200	3	
11:15	67.8	6.8	882	>200	4	

Did well dewater? Yes (No)	Gallons actually evacuated: 4
Sampling Time: 11:17	Sampling Date: 7-20-99
Sample I.D.: 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