



BP OIL

BP Oil Company
Environmental Remediation Management
295 SW 41st Street
Renton, Washington 98055-4931
98 FEB 19 10:30
(425) 251-0667
Fax No (425) 251-0736

January 27, 1998

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

RE: BP Oil Site No. 11126
1700 Powell St. (at Christie)
Emeryville, CA

Dear Ms. Hugo:

Enclosed please find the 19 December 1997 Groundwater Monitoring and Sampling Report prepared on behalf of BP by Alisto Engineering Group.

Aromatic petroleum constituents were detected in the subsurface when a soil gas survey was performed in conjunction with BP's 1989 acquisition of the site from Mobil Oil Corporation. The release of aromatic petroleum constituents was confirmed during 1992 when soil and groundwater samples were obtained in support of BP's plans to withdraw from the retail market in California. BP subsequently sold the business and related improvements were sold to the current operator (Tosco Corporation) in 1994, and is continuing to monitor the groundwater.

The cause and origin of the petroleum release(s) at this site has not – to the best of my knowledge – been established. The existing single-wall-fiberglass fuel tanks are believed to have been installed by Mobil Oil Corporation during 1982. Soil or groundwater data associated with the 1982 tank replacement was not reported to have been obtained when BP acquired the site from Mobil in 1989. While the UST system passed required precision tightness tests prior to and during BP's operation of the site, it is also noted that the underground storage tank system will require upgrading to comply with 1998 federal requirements for leak detection and prevention. I understand that this will include the installation of turbine riser sumps, dispenser pans and spill buckets around the fill tubes for the underground storage tanks.

The report shows that aromatic petroleum constituents were detected in groundwater samples collected from four of the eight monitoring wells sampled on 17 November 1997. The highest benzene concentration (22,000 ug/l) was reported in a sample obtained from well MW-9, located between the underground storage tanks and the product dispensers. It is also noted that MTBE was detected in samples obtained from six of the monitoring wells sampled on 17 December 1997. The highest MTBE concentration this quarter (400,000

ug/l) was reported in a sample obtained from well MW-1, located southeast of the underground storage tanks. It is also noted that the MTBE concentrations sampled in offsite well MW-5 this quarter (13,000 ug/l) has increased approximately an order of magnitude compared to the results reported for the previous quarter.

By copy of this letter to Tosco, please forward daily and monthly inventory reconciliation records and tightness testing results necessary to confirm that the underground storage tank system was operated within acceptable tolerances since Tosco's acquisition of the facility.

Please give me a call if you have any questions, comments or concerns regarding this matter. I can be reached at (206) 251-0689.

Sincerely,



Scott Hooton
Environmental Remediation Management

attachment

cc: B. Nagle - Alisto
K. Graves - CRWQCB-SFBR
T. Berry - Tosco (w/attachment)

GROUNDWATER MONITORING AND SAMPLING REPORT

**BP Oil Company Service Station No. 11126
1700 Powell Street
Emeryville, California**

Project No. 10-061-08-002

DEC 30 1997

**BP OIL CO.
ENVIRONMENTAL DEPT.
WEST COAST REGION OFFICE**

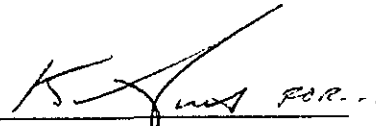
Prepared for:

**BP Oil Company
Environmental Resources Management
295 S.W. 41st Street
Building 13, Suite N
Renton, Washington**

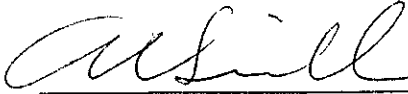
Prepared by:

**Alisto Engineering Group
1575 Treat Boulevard, Suite 201
Walnut Creek, California**

December 19, 1997



**Brady Nagle
Project Manager**



**Al Sevilla, P.E.
Principal**



GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11126
1700 Powell Street
Emeryville, California

Project No. 10-061-08-002

December 19, 1997

INTRODUCTION

This report presents the results and findings of the November 17, 1997 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11126, 1700 Powell Street, Emeryville, California. A site vicinity map is shown on Figure 1.

FIELD PROCEDURES

Field activities were performed in accordance with the procedures and guidelines of the Alameda County Health Care Services Agency and the California Regional Water Quality Control Board, San Francisco Bay Region.

Before purging and sampling, the groundwater level in each well was measured from a permanent mark on top of the casing to the nearest 0.01 foot using an electronic sounder. The depth to groundwater and top of casing elevation data were used to calculate the groundwater elevation in each well in reference to mean sea level. The survey data and groundwater elevation measurements collected to date are presented in Table 1.

Before sample collection, each well was purged of 3 casing volumes while recording field readings of pH, temperature, electrical conductivity, and dissolved oxygen. Groundwater samples were collected for laboratory analysis by lowering a bottom-fill, disposable bailer to just below the water level in the well. The samples were transferred from the bailer into laboratory-supplied containers. The water sampling field survey forms are presented in Appendix A.

SAMPLING AND ANALYTICAL RESULTS

The results of monitoring and laboratory analysis of the groundwater samples for this and previous quarters are summarized in Table 1. The potentiometric groundwater elevations as interpreted from the results of this monitoring event are shown on Figure 2. The results of groundwater analysis are shown on Figure 3. The laboratory report and chain of custody record are presented in Appendix B.



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11126
 1700 POWELL STREET, EMERYVILLE, CALIFORNIA

ALISTO PROJECT NO. 10-061

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l) (c)	DO (ppm)	LAB
MW-1	11/04/92	7.76	4.96	---	2.80	5300	---	1100	480	ND<0.5	1500	---	---	---	---	PACE
MW-1	10/12/93	7.76	5.26	---	2.50	3600	---	970	71	100	550	---	---	---	---	PACE
MW-1	02/15/94	7.76	4.98	---	2.78	17000	---	4200	510	360	1600	---	---	---	3.9	PACE
MW-1	05/11/94	7.76	4.55	---	3.21	5500	---	2900	37	56	64	---	---	---	8.0	PACE
MW-1	08/01/94	7.76	5.51	---	2.25	15000	---	3600	740	510	2800	9700	(d)	---	2.9	PACE
QC-1	(e) 08/01/94	---	---	---	---	16000	---	3600	750	510	2800	9800	(d)	---	---	PACE
MW-1	10/18/94	7.76	5.11	---	2.65	16000	---	1800	61	160	890	---	---	---	2.9	PACE
QC-1	(e) 10/18/94	---	---	---	---	16000	---	1900	64	170	950	---	---	---	---	PACE
MW-1	01/13/95	7.76	3.05	---	4.71	220	---	7	ND<0.5	1	23	---	---	---	6.6	ATI
QC-1	(e) 01/13/95	---	---	---	---	590	---	88	0.7	ND<0.5	55	---	---	---	---	ATI
MW-1	04/13/95	7.76	3.84	---	3.92	9300	---	4000	300	200	950	---	---	---	7.7	ATI
MW-1	07/11/95	7.76	3.60	---	4.16	15000	---	2200	84	ND<25	2500	---	---	---	8.8	ATI
MW-1	11/02/95	7.76	4.58	---	3.18	19000	---	920	ND<100	ND<100	430	52000	---	---	7.3	ATI
MW-1	02/05/96	7.76	4.43	---	3.33	4600	---	1400	330	54	247	8700	---	---	3.2	SPL
MW-1	04/24/96	7.76	4.00	---	3.76	2000	---	510	33	61	228	4500	---	---	7.5	SPL
MW-1	07/15/96	7.76	4.30	---	3.46	---	---	---	---	---	---	---	---	---	---	---
MW-1	07/16/96	7.76	---	---	---	12000	---	2800	170	390	1630	64000	---	---	7.9	SPL
QC-1	(e) 07/16/96	---	---	---	---	12000	---	2800	160	390	1610	63000	---	---	---	SPL
MW-1	07/30/96	7.76	4.64	---	3.12	---	---	---	---	---	---	---	---	---	---	---
MW-1	08/12/96	7.76	---	---	---	11000	---	2500	160	ND<10	1740	440000	---	---	7.0	SPL
MW-1	11/04/96	7.76	5.98	---	1.78	---	---	---	---	---	---	---	---	---	---	---
MW-1	11/05/96	7.76	---	---	---	53000	---	1300	43	100	349	42000/190000 (f)	---	---	6.6	SPL
MW-1	05/17/97	7.76	4.65	---	3.11	52000	---	1958	55	305	1216	140198	---	---	5.7	SPL
MW-1	08/11/97	7.76	4.90	---	2.86	25000	---	540	6.7	ND<5.0	57	360000	---	---	7.9	SPL
MW-1	11/17/97	7.76	6.12	---	1.84	93000	---	1200	31	180	40	400000	---	---	7.6	SPL
MW-2	11/04/92	8.56	5.88	---	2.68	12000	---	3900	1300	ND<0.5	2300	---	---	---	---	PACE
QC-1	(e) 11/04/92	---	---	---	0.00	12000	---	3200	980	ND<0.5	1900	---	---	---	---	PACE
MW-2	10/12/93	8.56	6.29	---	2.27	4500	---	3400	180	230	940	---	---	---	---	PACE
MW-2	02/15/94	8.56	5.56	---	3.00	2000	---	430	270	28	390	---	---	---	4.0	PACE
QC-1	(e) 02/15/94	---	---	---	0.00	1800	---	290	160	14	250	---	---	---	---	PACE
MW-2	05/11/94	8.56	5.17	---	3.39	14000	---	3900	1200	440	1900	---	---	---	8.9	PACE
QC-1	(e) 05/11/94	---	---	---	---	15000	---	5600	1500	470	2000	740	(d)	---	---	PACE
MW-2	08/01/94	8.56	5.43	---	3.13	8200	---	3003	423	230	680	---	---	---	2.6	PACE
MW-2	10/18/94	8.56	5.71	---	2.85	9000	---	2000	140	150	420	---	---	---	7.2	PACE
MW-2	01/13/95	8.56	4.87	---	3.89	7900	---	2200	42	ND<5	770	---	---	---	6.8	ATI
MW-2	04/13/95	8.56	4.37	---	4.19	33000	---	8000	2500	1100	6600	---	---	---	7.5	ATI
QC-1	(e) 04/13/95	---	---	---	---	25000	---	6500	1500	110	5300	---	---	---	---	ATI
MW-2	07/11/95	8.56	4.51	---	4.05	19000	---	3300	99	7.5	4600	---	---	---	7.8	ATI
QC-1	(e) 07/11/95	---	---	---	---	28000	---	8800	1000	900	4900	---	---	---	---	ATI
MW-2	11/02/95	8.56	5.55	---	3.01	20000	---	3800	1200	570	2700	15000	---	---	7.3	ATI
QC-1	(e) 11/02/95	---	---	---	---	22000	---	4000	1200	600	2700	19000	---	---	---	ATI
MW-2	02/05/96	8.56	5.10	---	3.46	1200	---	320	220	26	187	99	---	---	2.2	SPL
QC-1	(e) 02/05/96	---	---	---	---	910	---	290	180	19	137	93	---	---	---	SPL
MW-2	04/24/96	8.56	4.95	---	3.61	ND<500	---	70	22	ND<10	61	ND<50	---	---	7.0	SPL
QC-1	(e) 04/24/96	---	---	---	---	ND<500	---	100	30	ND<10	71	ND<100	---	---	---	SPL
MW-2	07/15/96	8.56	5.40	---	3.16	---	---	---	---	---	---	---	---	---	---	---
MW-2	07/16/96	8.56	---	---	---	12000	---	3300	1400	250	2610	1400	---	---	7.8	SPL
MW-2	07/30/96	8.56	5.44	---	3.12	---	---	---	---	---	---	---	---	---	---	---
MW-2	11/04/96	8.56	7.06	---	1.50	---	---	---	---	---	---	---	---	---	---	---
MW-2	11/05/96	8.56	---	---	---	7200	---	1400	230	38	2110	1100	---	---	7.4	SPL
QC-1	(e) 11/05/96	---	---	---	---	9200	---	1300	170	ND<25	2240	1100	---	---	---	SPL
MW-2	05/17/97	8.56	5.77	---	2.79	570	---	42	ND<5.0	5.0	60	210	---	---	6.9	SPL
MW-2	08/11/97	8.56	5.71	---	2.85	6300	---	1800	130	86	397	2400	---	---	8.5	SPL
MW-2	11/17/97	8.56	6.91	---	1.65	2400	---	220	30	33	259	130	---	---	7.9	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11126
 1700 POWELL STREET, EMERYVILLE, CALIFORNIA

AJISTO PROJECT NO. 10-061

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l) (c)	DO (ppm)	LAB
MW-3	11/04/92	8.25	6.38	---	1.87	200	690	1.6	ND<0.5	ND<0.5	1.1	---	ND<5000	ND	---	PACE
MW-3	10/12/93	8.25	5.84	---	2.41	270	2100	5.0	0.7	ND<0.5	2.6	---	ND<5000	ND	---	PACE
QC-1 (e)	10/12/93	---	---	---	0.00	150	---	5.6	0.6	ND<0.5	1.6	---	---	---	---	PACE
MW-3	02/15/94	8.25	6.60	---	1.65	140	2.3	5.7	ND<0.5	ND<0.5	ND<0.5	---	90	ND	3.9	PACE
MW-3	05/11/94	8.25	5.85	---	2.39	190	2500	2.7	1.9	ND<0.5	1.9	51	(d) ND<5000	ND	9.2	PACE
MW-3	08/01/94	8.25	6.13	---	2.12	120	1300	1.3	ND<0.5	0.5	1.1	---	ND<5000	ND	2.9	PACE
MW-3	10/18/94	8.25	6.39	---	1.86	100	2200	2.3	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	3.6	PACE
MW-3	01/13/95	8.25	5.47	---	2.78	ND<50	970	0.8	ND<0.5	ND<1	---	---	---	ND	7.7	ATI
MW-3	04/13/95	8.25	5.17	---	3.08	530	ND<500	8.7	1.9	ND<0.5	3.9	---	2100	ND	8.4	ATI
MW-3	07/11/95	8.25	5.37	---	2.88	78	2100	0.57	ND<0.50	ND<0.50	ND<1.0	---	1900	ND	8.3	ATI
MW-3	11/02/95	8.25	6.29	---	1.96	250	2000	0.73	ND<0.50	ND<0.50	1.8	270	1400	ND	8.3	ATI
MW-3	02/05/96	8.25	5.80	---	2.45	ND<50	1600	ND<0.5	ND<1	ND<1	2.7	11	9000	ND	3.5	SPL
MW-3	04/24/96	8.25	5.69	---	2.56	ND<50	2800	ND<5	ND<10	ND<10	ND<10	150	6000	ND	8.6	SPL
MW-3	07/15/96	8.25	6.18	---	2.07	ND<250	3700	ND<2.5	ND<5	ND<5	ND<5	ND<50	1000	ND	7.7	SPL
MW-3	07/30/96	8.25	6.04	---	2.21	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/04/96	8.25	7.84	---	0.41	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/05/96	8.25	---	---	---	90	890	ND<0.5	ND<1.0	ND<1.0	ND<1.0	30	2000	ND	6.8	SPL
MW-3	05/17/97	8.25	6.49	---	1.76	ND<50	2100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	52	700	ND	6.3	SPL
MW-3	08/11/97	8.25	6.15	---	2.10	490	1900	ND<2.5	ND<5.0	ND<5.0	ND<5.0	170	ND<5000	ND	7.4	SPL
MW-3	11/17/97	8.25	7.15	---	1.10	120	2500	ND<0.5	ND<1.0	ND<1.0	ND<1.0	46	ND<5000	ND	7.0	SPL
MW-4	11/04/92	8.12	6.66	---	1.46	340	---	4.5	ND<0.5	4.3	ND<0.5	---	---	---	---	PACE
MW-4	10/12/93	8.12	6.87	---	1.25	160	---	5.8	1.4	0.8	2.7	---	---	---	---	PACE
MW-4	02/15/94	8.12	6.61	---	1.51	110	---	4.4	0.7	ND<0.5	2.5	120	(d) ---	---	4.3	PACE
MW-4	05/11/94	8.12	5.89	---	2.23	120	---	0.5	0.8	ND<0.5	ND<0.5	140	---	---	9.3	PACE
MW-4	08/01/94	8.12	6.87	---	1.25	140	---	0.7	2.0	5.2	15	---	---	---	3.3	PACE
MW-4	10/18/94	8.12	6.62	---	1.50	140	---	3.5	ND<0.5	0.5	ND<0.5	---	---	---	3.0	PACE
MW-4	01/13/95	8.12	7.27	---	0.85	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	7.9	ATI
MW-4	04/13/95	8.12	6.51	---	1.61	73	---	1.2	ND<0.5	ND<0.5	ND<1	---	---	---	9.9	ATI
MW-4	07/11/95	8.12	6.21	---	1.91	82	---	0.57	ND<0.50	ND<0.50	ND<1.0	---	---	---	7.2	ATI
MW-4	11/02/95	8.12	6.78	---	1.34	71	---	1.4	0.96	0.99	2.8	140	---	---	8.6	ATI
MW-4	02/05/96	8.12	6.41	---	1.71	ND<50	---	ND<5	ND<10	ND<10	ND<10	200	---	---	4.4	SPL
MW-4	04/24/96	8.12	6.18	---	1.94	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	510	---	---	8.3	SPL
MW-4	07/15/96	8.12	6.63	---	1.49	ND<50	---	5.7	ND<1	ND<1	ND<1	550	---	---	7.4	SPL
MW-4	07/30/96	8.12	6.34	---	1.78	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/04/96	8.12	8.27	---	-0.15	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/05/96	8.12	---	---	---	460	---	ND<2.5	11	ND<5.0	ND<5.0	620/610	(f) ---	---	7.3	SPL
MW-4	05/17/97	8.12	7.00	---	1.12	---	---	---	---	---	---	---	---	---	---	---
MW-4	08/11/97	8.12	6.81	---	1.31	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/17/97	8.12	9.19	---	-1.07	840	---	ND<0.5	ND<1.0	ND<1.0	ND<1.0	880	---	---	7.3	SPL
MW-5	10/12/93	7.69	6.01	---	1.68	---	---	---	---	---	---	---	---	---	---	---
MW-5	10/13/93	7.69	---	---	---	2300	---	160	10	ND<0.5	26	---	---	---	---	PACE
MW-5	02/15/94	7.69	5.74	---	1.95	5100	---	710	16	33	35	100	(d) ---	---	4.0	PACE
MW-5	05/11/94	7.69	5.28	---	2.41	11000	---	1100	39	110	57	160	(d) ---	---	8.0	PACE
MW-5	08/01/94	7.69	5.84	---	1.85	9000	---	730	35	61	41	200	(d) ---	---	2.6	PACE
MW-5	10/18/94	7.69	6.01	---	1.68	7800	---	330	30	27	27	---	---	---	5.6	PACE
MW-5	01/13/95	7.69	4.74	---	2.95	ND<500	---	290	6	ND<5	18	---	---	---	6.8	ATI
MW-5	04/13/95	7.69	5.50	---	2.19	9100	---	400	15	52	27	---	---	---	7.4	ATI
MW-5	07/11/95	7.69	5.75	---	1.94	7300	---	390	13	28	23	---	---	---	7.2	ATI
MW-5	11/03/95	7.69	6.65	---	1.04	7200	---	270	15	38	23	200	---	---	8.4	ATI
MW-5	02/05/96	7.69	4.83	---	2.86	4600	---	370	15	53	28	ND<50	---	---	1.9	SPL
MW-5	04/24/96	7.69	6.09	---	1.60	3000	---	180	ND<10	32	14	ND<100	---	---	8.1	SPL
MW-5	07/15/96	7.69	6.57	---	1.12	---	---	---	---	---	---	---	---	---	---	---
MW-5	07/16/96	7.69	---	---	---	ND<50	---	190	ND<10	31	16	ND<100	---	---	8.3	SPL
MW-5	07/30/96	7.69	5.61	---	2.08	---	---	---	---	---	---	---	---	---	---	---
MW-5	08/12/96	7.69	---	---	---	2000	---	150	12	25	18.2	ND<50	---	---	7.6	SPL
MW-5	11/04/96	7.69	8.25	---	-0.56	---	---	---	---	---	---	---	---	---	---	---
MW-5	11/05/96	7.69	---	---	---	5200	---	42	5.5	13	ND<5.0	1700	---	---	7.4	SPL
MW-5	05/17/97	7.69	6.95	---	0.74	80	---	0.56	ND<1.0	ND<1.0	ND<1.0	46	---	---	6.7	SPL
MW-5	08/11/97	7.69	6.72	---	0.97	2700	---	20	12	6.7	9.7	1900	---	---	8.5	SPL
MW-5	11/17/97	7.69	9.49	---	-1.80	8400	---	25	12	8.7	5.4	13000	---	---	7.9	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11126
 1700 POWELL STREET, EMERYVILLE, CALIFORNIA

ALISTO PROJECT NO. 10-061

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l) (c)	DO (ppm)	LAB
MW-6	10/12/93	8.52	6.59	--	1.93	63	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	PACE
MW-6	02/15/94	8.52	6.31	--	2.21	68	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	38	(d)	--	3.1	PACE
MW-6	05/11/94	8.52	6.15	--	2.37	68	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	48	(d)	--	8.7	PACE
MW-6	08/01/94	8.52	6.46	--	2.06	91	--	ND<0.5	ND<0.5	ND<0.5	0.6	--	--	--	2.4	PACE
MW-6	10/18/94	8.52	6.72	--	1.80	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	6.0	PACE
MW-6	01/13/95	8.52	5.95	--	2.57	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	--	7.0	ATI
MW-6	04/13/95	8.52	5.44	--	3.08	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	--	8.5	ATI
MW-6	07/11/95	8.52	5.68	--	2.84	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	--	8.4	ATI
MW-6	11/02/95	8.52	6.57	--	1.95	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	35	--	--	8.3	ATI
MW-6	02/05/96	8.52	6.27	--	2.25	ND<50	--	ND<5	ND<10	ND<10	ND<10	ND<100	--	--	2.2	SPL
MW-6	04/24/96	8.52	5.95	--	2.57	ND<250	--	ND<2.5	ND<5	ND<5	ND<5	62	--	--	8.0	SPL
MW-6	07/15/96	8.52	6.39	--	2.13	ND<250	--	ND<2.5	ND<5	ND<5	ND<5	ND<50	--	--	8.0	SPL
MW-6	07/30/96	8.52	6.44	--	2.08	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/04/96	8.52	8.05	--	0.47	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/05/96	8.52	--	--	--	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	7.3	SPL
MW-6	05/17/97	8.52	6.75	--	1.77	--	--	--	--	--	--	--	--	--	--	--
MW-6	08/11/97	8.52	6.48	--	2.04	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/17/97	8.52	9.27	--	-0.75	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	7.7	SPL
MW-7	10/12/93	7.61	6.14	--	1.47	ND<50	--	ND<0.5	ND<0.5	ND<0.5	0.7	--	--	--	--	PACE
MW-7	02/15/94	7.61	5.88	--	1.73	78	--	ND<0.5	ND<0.5	ND<0.5	0.6	--	--	--	4.0	PACE
MW-7	05/11/94	7.61	5.76	--	1.85	70	--	ND<0.5	ND<0.5	ND<0.5	0.9	--	--	--	9.1	PACE
MW-7	08/01/94	7.61	5.97	--	1.64	77	--	ND<0.5	ND<0.5	ND<0.5	0.5	--	--	--	2.5	PACE
MW-7	10/18/94	7.61	6.24	--	1.37	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	6.3	PACE
MW-7	01/13/95	7.61	5.39	--	2.22	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	--	8.2	ATI
MW-7	04/13/95	7.61	5.17	--	2.44	63	--	ND<0.5	ND<0.5	ND<0.5	1.4	--	--	--	8.4	ATI
MW-7	07/11/95	7.61	5.25	--	2.36	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	--	7.9	ATI
MW-7	11/02/95	7.61	6.19	--	1.42	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	55	--	--	8.0	ATI
MW-7	02/05/96	7.61	5.69	--	1.92	ND<50	--	ND<0.5	ND<1	ND<1	ND<1	40	--	--	1.9	SPL
MW-7	04/24/96	7.61	5.59	--	2.02	ND<250	--	ND<2.5	ND<5	ND<5	ND<5	53	--	--	8.2	SPL
MW-7	07/15/96	7.61	6.07	--	1.54	ND<250	--	ND<2.5	ND<5	ND<5	ND<5	ND<50	--	--	7.8	SPL
MW-7	07/30/96	7.61	6.04	--	1.57	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/04/96	7.61	7.76	--	-0.15	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/05/96	7.61	--	--	--	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	7.8	SPL
MW-7	05/17/97	7.61	6.42	--	1.19	--	--	--	--	--	--	--	--	--	--	--
MW-7	08/11/97	7.61	6.06	--	1.55	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/17/97	7.61	9.07	--	-1.46	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	7.1	SPL
MW-8	10/12/93	8.60	5.86	--	2.74	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	PACE
MW-8	02/15/94	8.60	5.50	--	3.10	380	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	3.3	PACE
MW-8	05/11/94	8.60	5.09	--	3.51	330	--	ND<0.5	1.2	ND<0.5	1.9	--	--	--	8.5	PACE
MW-8	08/01/94	8.60	5.20	--	3.40	260	--	ND<0.5	1.2	2.9	5.8	--	--	--	2.3	PACE
MW-8	10/18/94	8.60	5.70	--	2.90	82	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	6.4	PACE
MW-8	01/13/95	8.60	4.96	--	3.64	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	--	6.9	ATI
MW-8	04/13/95	8.60	5.40	--	3.20	270	--	ND<0.5	ND<0.5	ND<0.5	4.4	--	--	--	8.4	ATI
MW-8	07/11/95	8.60	6.01	--	2.59	320	--	ND<0.50	ND<0.50	ND<0.50	3.5	--	--	--	8.0	ATI
MW-8	11/02/95	8.60	6.81	--	1.79	100	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<50	--	--	8.7	ATI
MW-8	02/05/96	8.60	6.12	--	2.48	ND<50	--	ND<5	ND<10	ND<10	ND<10	ND<100	--	--	1.5	SPL
MW-8	04/24/96	8.60	6.23	--	2.37	ND<50	--	ND<5	ND<10	ND<10	ND<10	ND<100	--	--	8.7	SPL
MW-8	07/15/96	8.60	6.70	--	1.90	ND<250	--	ND<2.5	ND<5	ND<5	ND<5	ND<50	--	--	8.4	SPL
MW-8	07/30/96	8.60	6.64	--	1.96	--	--	--	--	--	--	--	--	--	--	--
MW-8	11/04/96	8.60	8.36	--	0.24	--	--	--	--	--	--	--	--	--	--	--
MW-8	11/05/96	8.60	--	--	--	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	7.2	SPL
MW-8	05/17/97	8.60	7.03	--	1.57	--	--	--	--	--	--	--	--	--	--	--
MW-8	08/11/97	8.60	6.05	--	2.55	--	--	--	--	--	--	--	--	--	--	--
MW-8	11/17/97	8.60	9.14	--	-0.54	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	7.7	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11126
 1700 POWELL STREET, EMERYVILLE, CALIFORNIA

ALISTO PROJECT NO 10-061

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW-9	10/12/93	8.08	5.66	0.08	2.48	---	---	---	---	---	---	---	---	---	---	---
MW-9	02/15/94	8.08	5.32	0.05	2.80	---	---	---	---	---	---	---	---	---	---	---
MW-9	05/11/94	8.08	5.57	---	2.51	---	---	---	---	---	---	---	---	---	---	---
MW-9	08/01/94	8.08	6.25	---	1.83	---	---	---	---	---	---	---	---	---	---	---
MW-9	10/18/94	8.08	5.59	0.13	2.59	---	---	---	---	---	---	---	---	---	---	---
MW-9	01/13/95	8.08	4.42	0.14	3.77	---	---	---	---	---	---	---	---	---	---	---
MW-9	04/13/95	8.08	4.06	0.11	4.10	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/11/95	8.08	4.21	0.08	3.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/02/95	8.08	5.22	0.05	2.90	---	---	---	---	---	---	---	---	---	---	---
MW-9	02/05/96	8.08	4.76	0.01	3.33	---	---	---	---	---	---	---	---	---	---	---
MW-9	04/24/96	8.08	4.62	0.09	3.53	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/15/96	8.08	5.11	0.04	3.00	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/30/96	8.08	5.15	---	2.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/04/96	8.08	6.75	0.01	1.34	---	---	---	---	---	---	---	---	---	---	---
MW-9	05/17/97	8.08	5.42	---	2.66	97000	---	16000	7700	2300	18400	40000	---	---	---	---
QC-1 (e)	05/17/97	---	---	---	---	97000	---	16000	8200	2300	17300	39000	---	---	---	---
MW-9	08/11/97	8.08	5.37	---	2.71	71000	---	12000	340	2100	4300	26000	---	---	9.1	SPL
QC-1 (e)	08/11/97	---	---	---	---	100000	---	14000	360	3200	5790	27000	---	---	---	SPL
MW-9	11/17/97	8.08	5.62	Sheen	2.46	100000	---	22000	4800	3100	17900	32000	---	---	8.3	SPL
QC-1 (e)	11/17/97	---	---	---	---	100000	---	24000	5300	3500	19300	35000	---	---	---	SPL
QC-2 (g)	11/05/92	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	10/12/93	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	02/15/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	05/11/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	08/01/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	10/18/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	01/13/95	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	ATI
QC-2 (g)	04/13/95	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	ATI
QC-2 (g)	07/11/95	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
QC-2 (g)	11/02/95	---	---	---	---	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	---	ATI
QC-2 (g)	02/05/96	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<5.0	---	---	---	ATI
QC-2 (g)	04/24/96	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	SPL
QC-2 (g)	07/16/96	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	SPL

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
 HVOC Halogenated volatile organic compounds
 DO Dissolved oxygen
 ug/l Micrograms per liter
 ppm Parts per million
 ND Not detected above reported detection limit
 --- Not analyzed/applicable/measurable
 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 8.11 feet above mean sea level.
- (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.
- (c) Detection limits vary; see laboratory report.
- (d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-061-07-004.
- (e) Blind duplicate.
- (f) EPA Methods 8020/8260 used
- (g) Travel blank



SOURCE:
 USGS MAP, OAKLAND WEST QUADRANGLE,
 CALIFORNIA, 7.5 MINUTE SERIES, 1959.
 PHOTOREVISED 1980.

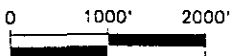


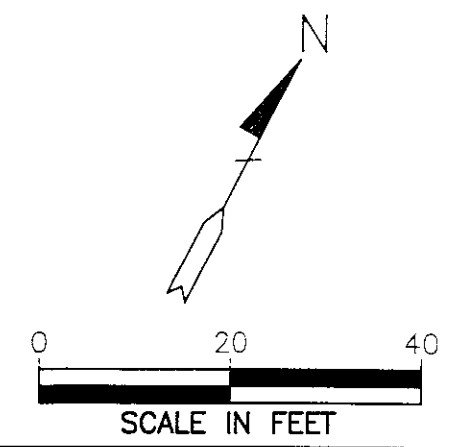
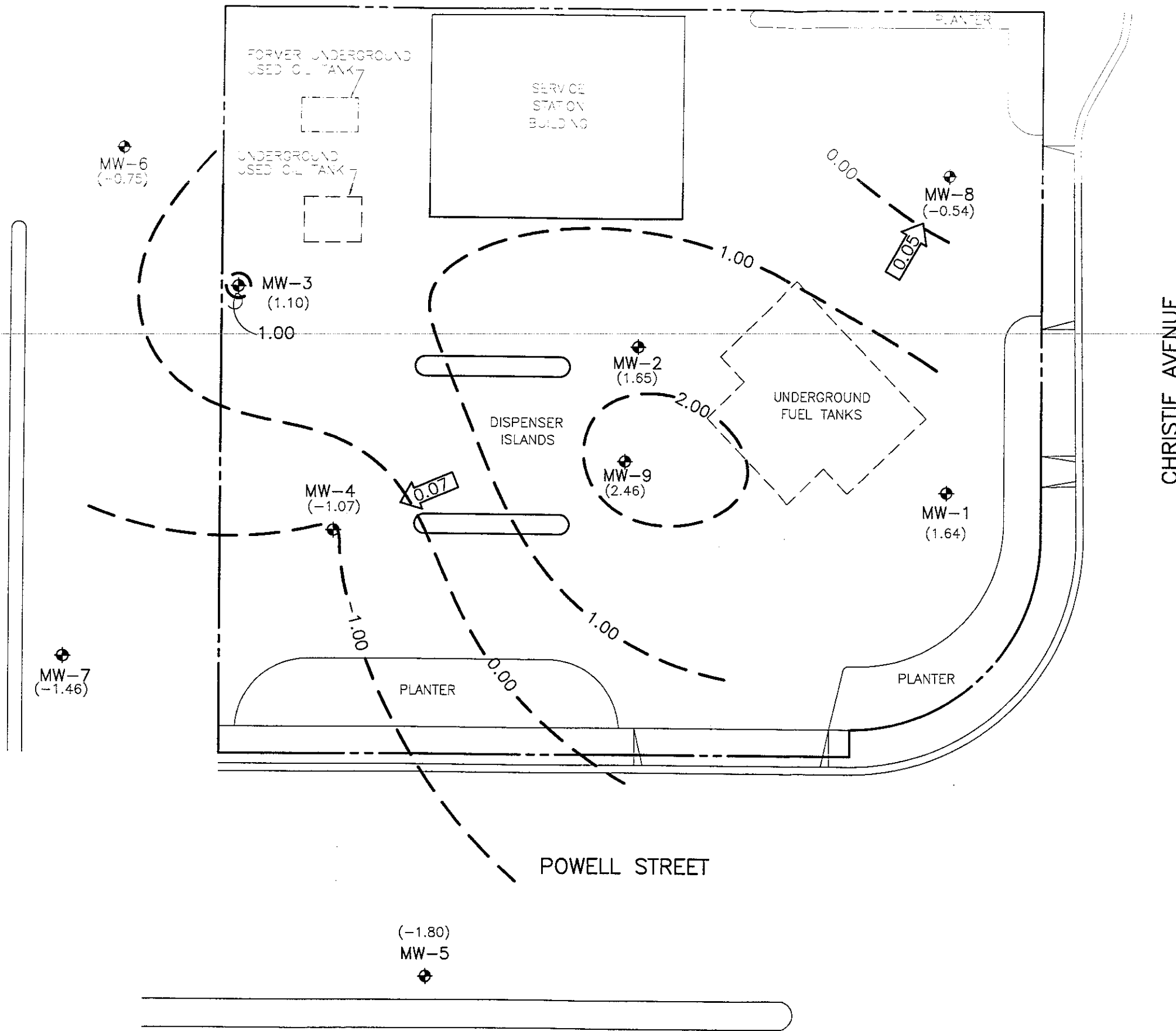
FIGURE 1

SITE VICINITY MAP

BP OIL SERVICE STATION NO. 11126
 1700 POWELL STREET
 EMERYVILLE, CALIFORNIA
 PROJECT NO. 10-061

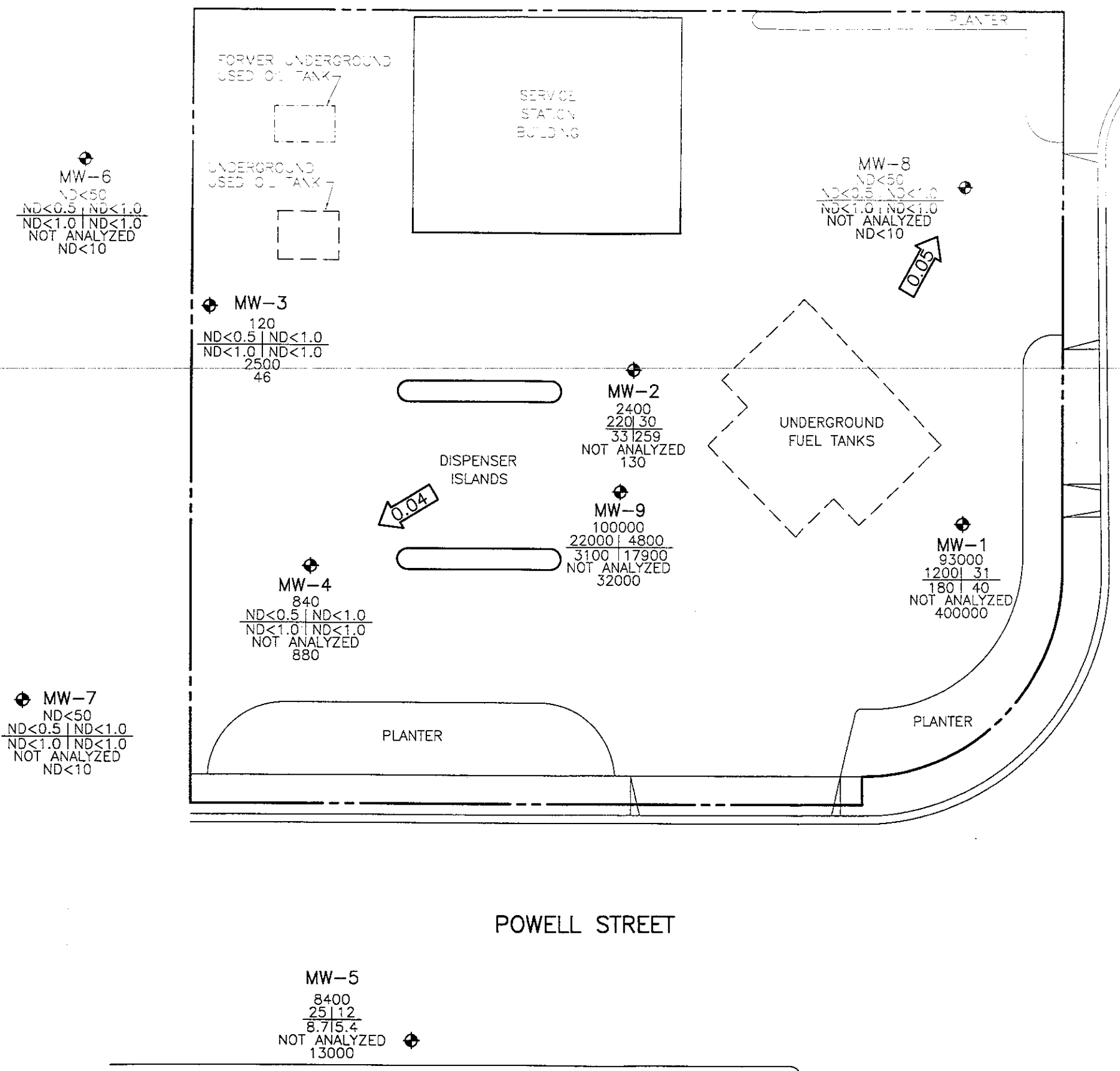


ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - (-0.54) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - - - 0.00 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL - 1.00 FEET)
 - ← 0.05 - CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
NOVEMBER 17, 1997
 BP OIL SERVICE STATION NO. 11126
 1700 POWELL STREET
 EMERYVILLE, CALIFORNIA
 PROJECT NO. 10-061



LEGEND

◆ GROUNDWATER MONITORING WELL
 TPH-G
B | T
E | X
TPH-D
MTBE
TPH-G
B
T
E
X
TPH-D
MTBE
ND
 CONCENTRATION OF CONSTITUENTS IN MICROGRAMS PER LITER
 TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 BENZENE
 TOLUENE
 ETHYLBENZENE
 TOTAL XYLENES
 TOTAL PETROLEUM HYDROCARBONS AS DIESEL
 METHYL TERT BUTYL ETHER
 NOT DETECTED ABOVE REPORTED DETECTION LIMIT
 ←0.05→ CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3
CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER
NOVEMBER 17, 1997
 BP OIL SERVICE STATION NO. 11126
 1700 POWELL STREET
 EMERYVILLE, CALIFORNIA
 PROJECT NO. 10-061



10051E-X.DWG 12-11-97 11:11 1"=20'

APPENDIX A
WATER SAMPLING FIELD SURVEY FORMS

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING

GROUP

1575 TREAT BOULEVARD, SUITE 201

WALNUT CREEK CA 94598 (510) 295-1650 FAX 295-1823

Project No. 10-061-08-002

Address 1700 Powell St.

Contract No. H177106

Station No. BP 11126

Date: 11/17/97

Day: M T W T H F

City: Emeryville

Sampler: LUB

DEPTH TO GROUNDWATER SUMMARY

WELL ID	SAMPLE ID	WELL DIAM	TOTAL DEPTH	DEPTH TO WATER	PRODUCT THICKNESS	TIME MONITORED	COMMENTS:
MW-1	S-8	2"	11.62'	6.22	∅	1144	
MW-2	S-7	2"	11.91'	6.91	∅	1140	
MW-3	S-5	2"	12.08'	7.15	∅	1127	replaced 4" Cap + Lock
MW-4	S-4	2"	11.06'	9.19	∅	1120	ANNUAL-Sample this event
MW-5	S-6	2"	13.70'	9.49	∅	1133	
MW-6	S-1	2"	13.25'	9.27	∅	1107	ANNUAL-Sample this event
MW-7	S-2	2"	13.72'	9.07	∅	1110	ANNUAL-Sample this event
MW-8	S-3	2"	13.65'	9.14	∅	1114	ANNUAL-Sample this event
MW-9	S-9	4"	13.85'	5.62	iridescence	1156	QC-1 (S-10) From this well

OK
BN

FIELD INSTRUMENT CALIBRATION DATA

pH METER Icm 4.00 4 7.00 7 10.00 10 TEMPERATURE COMPENSATED Y N TIME 1207

D.O. METER Icm ZERO d.O. SOLUTION _____ BAROMETRIC PRESSURE 760 TEMP 63 WEATHER Cloudy

CONDUCTIVITY METER Icm 10,000 _____ TURBIDITY METER _____ 5.0 NTU _____ OTHER X

LEAK DETECTOR: _____ ALARM MODE _____ NON ALARM MODE _____

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW-6	9.27	2"	OK	∅	Y (N)	1	1222	68.7	7.34	1.10ms	7.1	<input type="radio"/> EPA 601 _____
Total Depth - Water Level=						2	1227	68.3	7.22	1.21ms	7.7	<input checked="" type="radio"/> TPH-G/BTEX _____
13.25-9.27=3.98x.16=.63x3=1.89												<input type="radio"/> TPH Diesel _____
Purge Method: OSurface Pump ODisp.Tube OWinch <input checked="" type="checkbox"/> Disp. Bailers OSys Port												<input type="radio"/> TOG 5520 _____
Comments:												TIME/SAMPLE ID
												1234
MW-7	9.07	2"	OK	∅	Y (N)	1	1251	69.4	7.71	1.47ms	6.4	<input type="radio"/> EPA 601 _____
Total Depth - Water Level=						2		68.3	7.42	1.63ms		<input checked="" type="radio"/> TPH-G/BTEX _____
13.72-9.07=4.65x.16=.74x3=2.22						3	1300	67.6	7.37	1.67ms	7.1	<input type="radio"/> TPH Diesel _____
Purge Method: OSurface Pump ODisp.Tube OWinch <input checked="" type="checkbox"/> Disp. Bailers OSys Port												<input type="radio"/> TOG 5520 _____
Comments:												TIME/SAMPLE ID
												1303

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING

GROUP

1575 TREAT BOULEVARD, SUITE 201

WALNUT CREEK CA 94598 (510) 295-1650 FAX 295-1823

Project No.

10-061-08-002

Address

1700 Powell St.

Contract No.

H177106

Station No.

BP 11126

Sampler:

Date:

11/17/97

Day:

MTWTF

City:

Emeryville

Well ID	Depth to Water	Diam	Cap/Lock	Product Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW-8	9.14	2"	OK	Ø	Y (N)	1	1311	69.9	7.40	1.67ms	7.4	<input type="radio"/> EPA 601
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.						2		69.0	7.21	1.79ms		<input checked="" type="radio"/> TPH-G/BTEX
13.65-9.14=4.51x.16=.72x3= 2.16						3	1316	68.3	7.14	1.88ms	7.7	<input type="radio"/> TPH Diesel
Purge Method: <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailer(s) <input type="checkbox"/> Sys Port												<input type="radio"/> TOG 5520
Comments:												TIME/SAMPLE ID
												1322
MW-4	9.19	2"	OK	Ø	Y (N)	1	1333	71.4	7.29	1.79ms	7.1	<input type="radio"/> EPA 601
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.						2		70.1	7.39	1.97ms		<input checked="" type="radio"/> TPH-G/BTEX
11.06-9.19=1.87x.16=.30x3=.90						3	1340	69.1	7.44	2.11ms	7.3	<input type="radio"/> TPH Diesel
Purge Method: <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailer(s) <input type="checkbox"/> Sys Port												<input type="radio"/> TOG 5520
Comments:												TIME/SAMPLE ID
												1346
MW-3	7.15	2"	OK	Ø	Y (N)	1	1403	70.4	7.27	4.71ms	7.0	<input type="radio"/> EPA 601
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.						2		69.3	7.13	4.91ms		<input checked="" type="radio"/> TPH-G/BTEX
12.08-7.15=4.93x.16=.79x3= 2.37						3	1410	68.4	7.10	4.81ms	7.0	<input type="radio"/> TPH Diesel
Purge Method: <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailer(s) <input type="checkbox"/> Sys Port												<input type="radio"/> TOG 5520
Comments:												TIME/SAMPLE ID
												1416
MW-5	9.49	2"	OK	Ø	Y (N)	1	1429	71.7	7.49	1.73ms	7.6	<input type="radio"/> EPA 601
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.						2		70.3	7.24	1.97ms		<input checked="" type="radio"/> TPH-G/BTEX
13.70-9.49=4.21x.16=.67x3= 2.01						3	1434	69.5	7.20	1.89ms	7.9	<input type="radio"/> TPH Diesel
Purge Method: <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailer(s) <input type="checkbox"/> Sys Port												<input type="radio"/> TOG 5520
Comments:												TIME/SAMPLE ID
												1437
MW-2	6.91	2"	OK	Ø	Y (N)	1	1515	68.7	7.81	1.09ms	7.3	<input type="radio"/> EPA 601
Total Depth - Water Level= x Well Vol. Factor= x#vol. to Purge PurgeVol.						2		68.1	7.60	1.31ms		<input checked="" type="radio"/> TPH-G/BTEX
11.91-6.91=5.00x.16=.80x3=2.40						3	1524	68.1	7.51	1.22ms	7.9	<input type="radio"/> TPH Diesel
Purge Method: <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailer(s) <input type="checkbox"/> Sys Port												<input type="radio"/> TOG 5520
Comments:												TIME/SAMPLE ID
												1530

ALISTO

Field Report / Sampling Data Sheet

ENGINEERING

GROUP

1575 TREAT BOULEVARD, SUITE 201

WALNUT CREEK CA 94598 (510) 295-1650 FAX 295-1823

Project No.

10-061-08-002

Address

1700 Powell St.

Contract No.

H177106

Station No.

BP 11126

Sampler:

Date:

11/17/97

Day:

MT W TH F

City:

Emeryville

Well ID	Depth to Water	Diam	Cap/Lock	Product	Depl	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.		
MW-1	6.12	2"	OK	OK	Y	(N)	1	1547	71.4	7.77	1.47ms	7.4	<input type="radio"/> EPA 601 _____	
Total Depth - Water Level=							x Well Vol. Factor=	x#vol. to Purge		PurgeVol.			<input checked="" type="radio"/> TPH-G/BTEX _____	
11.62 - 6.12 = 5.50							x 1.16 = .88	x 3 = 2.64	2	70.3	7.49	1.69ms		<input type="radio"/> TPH Diesel _____
Purge Method: <input checked="" type="checkbox"/> Surface Pump							<input type="checkbox"/> Disp. Tube	<input type="checkbox"/> Winch	<input type="checkbox"/> Disp. Bailer(s)	<input type="checkbox"/> Sys Port				<input type="radio"/> TOG 5520 _____
Comments:												TIME/SAMPLE ID		
												1601		
MW-9	5.62	4"	Replac	Iridescen	(N)	N	5	1612	69.7	7.42	1.87ms	7.7	<input type="radio"/> EPA 601 _____	
Total Depth - Water Level=							x Well Vol. Factor=	x#vol. to Purge		PurgeVol.			<input checked="" type="radio"/> TPH-G/BTEX _____	
13.85 - 5.62 = 8.23							x .65 = 5.35	x 3 = 16.05	11	68.6	7.30	2.07ms		<input type="radio"/> TPH Diesel _____
Purge Method: <input checked="" type="checkbox"/> Surface Pump							<input type="checkbox"/> Disp. Tube	<input type="checkbox"/> Winch	<input type="checkbox"/> Disp. Bailer(s)	<input type="checkbox"/> Sys Port				<input type="radio"/> TOG 5520 _____
Comments:												TIME/SAMPLE ID		
												1630		

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



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

December 2, 1997

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

The following report contains analytical results for samples received at Southern Petroleum Laboratories (SPL) on November 19, 1997. The samples were assigned to Certificate of Analysis No.(s) 9711811 and analyzed for all parameters as listed on the chain of custody.

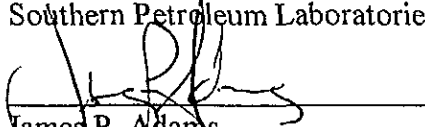
For the analysis of Purgeable Halocarbons by method 601, there were no Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries for the compound 2-Chloroethylvinyl ether (Batch ID:HP_F971121061400). This compound is degraded with the presence of acid, therefore, no recovery is expected. The sample spiked was not from this delivery group. A Laboratory Control Sample (LCS) was analyzed as a Quality Control check for the analytical batch and all recoveries were within acceptable limits.

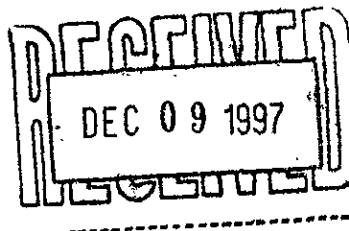
Your sample "S-5" (SPL ID:9711811-05) was randomly selected as a Quality Control sample for the analysis of Volatile Aromatics by SW-846 method 8020. The Relative Percent Difference (RPD) between the recoveries of the MS and MSD was outside of QC criteria for MTBE (Batch ID:HP_U971125093900). However, the MS and MSD recoveries were within QC limits. An LCS was analyzed as a Quality Control check for the analytical batch and all recoveries were within acceptable limits.

There were no other analytical problems encountered with this group of samples and all other quality control data was within acceptance limits.

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

James P. Adams
Client Services Manager



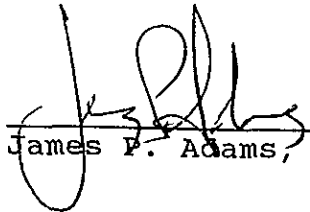


HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 97-11-811

Approved for Release by:


James P. Adams, Client Services Manager

12/3/97
Date:

Greg Grandits
Laboratory Director

Idelis Williams
Quality Assurance Officer

The attached analytical data package may not be reproduced except in full without the express written approval of this laboratory.



Certificate of Analysis No. H9-9711811-01

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

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

P.O.#
H177106, COC#072088
DATE: 12/02/97

PROJECT: #11126, NA
SITE: Emeryville, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-1

PROJECT NO: 10-061-8-2
MATRIX: WATER
DATE SAMPLED: 11/17/97
DATE RECEIVED: 11/19/97

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include MTBE, Benzene, Toluene, Ethylbenzene, Total Xylene.

Surrogate % Recovery
1,4-Difluorobenzene 80
4-Bromofluorobenzene 100

Method 8020A***
Analyzed by: LJ
Date: 11/24/97

Gasoline Range Organics ND 0.05 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 100
4-Bromofluorobenzene 90

California LUFT Manual for Gasoline
Analyzed by: LJ
Date: 11/24/97 11:09:00

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

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

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



Certificate of Analysis No. H9-9711811-02

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

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

P.O.#
H177106, COC#072088
DATE: 12/02/97

PROJECT: #11126, NA
SITE: Emeryville, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-2

PROJECT NO: 10-061-8-2
MATRIX: WATER
DATE SAMPLED: 11/17/97
DATE RECEIVED: 11/19/97

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include MTBE, Benzene, Toluene, Ethylbenzene, Total Xylene.

Surrogate % Recovery
1,4-Difluorobenzene 80
4-Bromofluorobenzene 100

Method 8020A***
Analyzed by: LJ
Date: 11/24/97

Gasoline Range Organics ND 0.05 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 100
4-Bromofluorobenzene 90

California LUFT Manual for Gasoline
Analyzed by: LJ
Date: 11/24/97 11:36:00

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

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

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



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

Certificate of Analysis No. H9-9711811-03

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

P.O.#
 H177106, COC#072088
 DATE: 12/02/97

PROJECT: #11126, NA
 SITE: Emeryville, CA
 SAMPLED BY: Alisto Engineering
 SAMPLE ID: S-3

PROJECT NO: 10-061-8-2
 MATRIX: WATER
 DATE SAMPLED: 11/17/97
 DATE RECEIVED: 11/19/97

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	10 P	µg/L
Benzene	ND	0.5 P	µg/L
Toluene	ND	1.0 P	µg/L
Ethylbenzene	ND	1.0 P	µg/L
Total Xylene	ND	1.0 P	µg/L

Surrogate

% Recovery

1,4-Difluorobenzene

80

4-Bromofluorobenzene

100

Method 8020A***

Analyzed by: LJ

Date: 11/25/97

Gasoline Range Organics

ND 0.05 P

mg/L

Surrogate

% Recovery

1,4-Difluorobenzene

100

4-Bromofluorobenzene

90

California LUFT Manual for Gasoline

Analyzed by: LJ

Date: 11/25/97 12:31:00

ND - Not detected.

(P) - Practical Quantitation Limit

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

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



Certificate of Analysis No. H9-9711811-04

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

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

P.O.#
H177106, COC#072088
DATE: 12/02/97

PROJECT: #11126, NA
SITE: Emeryville, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-4

PROJECT NO: 10-061-8-2
MATRIX: WATER
DATE SAMPLED: 11/17/97
DATE RECEIVED: 11/19/97

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	880	50 P	µg/L
Benzene	ND	0.5 P	µg/L
Toluene	ND	1.0 P	µg/L
Ethylbenzene	ND	1.0 P	µg/L
Total Xylene	ND	1.0 P	µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	80
4-Bromofluorobenzene	100

Method 8020A***
Analyzed by: VH2
Date: 11/25/97

Gasoline Range Organics 0.84 0.05 P mg/L

Surrogate	% Recovery
1,4-Difluorobenzene	100
4-Bromofluorobenzene	97

California LUFT Manual for Gasoline
Analyzed by: LJ
Date: 11/25/97 12:58:00

(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) 680-0901

Certificate of Analysis No. H9-9711811-05

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

P.O.#
 H177106, COC#072088
 DATE: 12/02/97

PROJECT: #11126, NA
 SITE: Emeryville, CA
 SAMPLED BY: Alisto Engineering
 SAMPLE ID: S-5

PROJECT NO: 10-061-8-2
 MATRIX: WATER
 DATE SAMPLED: 11/17/97
 DATE RECEIVED: 11/19/97

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	46	10 P	µg/L
Benzene	ND	0.5 P	µg/L
Toluene	ND	1.0 P	µg/L
Ethylbenzene	ND	1.0 P	µg/L
Total Xylene	ND	1.0 P	µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	83
4-Bromofluorobenzene	107

Method 8020A***
 Analyzed by: VHZ
 Date: 11/25/97

Gasoline Range Organics	0.12	0.05 P	mg/L
-------------------------	------	--------	------

Surrogate	% Recovery
1,4-Difluorobenzene	117
4-Bromofluorobenzene	97

California LUFT Manual for Gasoline
 Analyzed by: LJ
 Date: 11/25/97 01:25:00

Diesel Range Organics	2.5	0.2 P	mg/L
-----------------------	-----	-------	------

Surrogate	% Recovery
------------------	-------------------

(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.

COMMENTS: Sample contains petroleum hydrocarbons from C10-C24 that do not resemble a diesel pattern.(C10-C24) RR

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



Certificate of Analysis No. H9-9711811-05

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

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

P.O.#
H177106, COC#072088
DATE: 12/02/97

PROJECT: #11126, NA
SITE: Emeryville, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-5

PROJECT NO: 10-061-8-2
MATRIX: WATER
DATE SAMPLED: 11/17/97
DATE RECEIVED: 11/19/97

Table with 5 columns: PARAMETER, ANALYTICAL DATA, RESULTS, DETECTION LIMIT, UNITS. Rows include n-Pentacosane, California LUFT Manual for Diesel, California TPH-D Extraction, and Hydrocarbons by Gravimetry.

MI - Matrix interference. 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.

COMMENTS: Sample contains petroleum hydrocarbons from C10-C24 that do not resemble a diesel pattern.(C10-C24) RR

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



Certificate of Analysis No. H9-9711811-05

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

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

P.O.#
H177106, COC#072088
12/02/97

PROJECT: #11126, NA
SITE: Emeryville, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-5

PROJECT NO: 10-061-8-2
MATRIX: WATER
DATE SAMPLED: 11/17/97
DATE RECEIVED: 11/19/97

ANALYTICAL DATA

Table with 4 columns: PARAMETER, RESULTS, PQL*, UNITS. Lists various chemical compounds and their detection results (ND) and PQL values (1.0).

METHOD: 601, Halogenated Volatile Organics
(continued on next page)



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

Certificate of Analysis No. H9-9711811-05

BP Oil Company

SAMPLE ID: S-5

SURROGATES
Fluorobenzene

% RECOVERY
103

ANALYZED BY: RL

DATE/TIME: 11/21/97 01:44:00

METHOD: 601, Halogenated 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. H9-9711811-06

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

P.O.#
 H177106, COC#072088
 DATE: 12/02/97

PROJECT: #11126, NA
 SITE: Emeryville, CA
 SAMPLED BY: Alisto Engineering
 SAMPLE ID: S-6

PROJECT NO: 10-061-8-2
 MATRIX: WATER
 DATE SAMPLED: 11/17/97
 DATE RECEIVED: 11/19/97

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	13000	250 P	µg/L
Benzene	25	0.5 P	µg/L
Toluene	12	1.0 P	µg/L
Ethylbenzene	8.7	1.0 P	µg/L
Total Xylene	5.4	1.0 P	µg/L
Surrogate		% Recovery	
1,4-Difluorobenzene	83		
4-Bromofluorobenzene	103		
Method 8020A***			
Analyzed by: VHZ			
Date: 11/25/97			
Gasoline Range Organics	8.4	1.2 P	mg/L
Surrogate		% Recovery	
1,4-Difluorobenzene	105		
4-Bromofluorobenzene	96		
California LUFT Manual for Gasoline			
Analyzed by: VHZ			
Date: 11/25/97 10:57:00			

(P) - Practical Quantitation Limit

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

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



Certificate of Analysis No. H9-9711811-07

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

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

P.O.#
H177106, COC#072088
DATE: 12/02/97

PROJECT: #11126, NA
SITE: Emeryville, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-7

PROJECT NO: 10-061-8-2
MATRIX: WATER
DATE SAMPLED: 11/17/97
DATE RECEIVED: 11/19/97

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include MTBE, Benzene, Toluene, Ethylbenzene, Total Xylene.

Surrogate % Recovery
1,4-Difluorobenzene 100
4-Bromofluorobenzene 107

Method 8020A***
Analyzed by: VHZ
Date: 11/25/97

Gasoline Range Organics 2.4 0.05 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 177MI
4-Bromofluorobenzene 123

California LUFT Manual for Gasoline
Analyzed by: LJ
Date: 11/25/97 02:20:00

(P) - Practical Quantitation Limit MI - Matrix interference.

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. H9-9711811-08

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

P.O.#
 H177106, COC#072088
 DATE: 12/02/97

PROJECT: #11126, NA
 SITE: Emeryville, CA
 SAMPLED BY: Alisto Engineering
 SAMPLE ID: S-8

PROJECT NO: 10-061-8-2
 MATRIX: WATER
 DATE SAMPLED: 11/17/97
 DATE RECEIVED: 11/19/97

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	400000	10000 P	µg/L
Benzene	1200	12 P	µg/L
Toluene	31	25 P	µg/L
Ethylbenzene	180	25 P	µg/L
Total Xylene	40	25 P	µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	87
4-Bromofluorobenzene	100

Method 8020A***
 Analyzed by: VHZ
 Date: 11/25/97

Gasoline Range Organics	93	1.2 P	mg/L
-------------------------	----	-------	------

Surrogate	% Recovery
1,4-Difluorobenzene	125
4-Bromofluorobenzene	96

California LUFT Manual for Gasoline
 Analyzed by: LJ
 Date: 11/25/97 02:47:00

(P) - Practical Quantitation Limit

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

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



Certificate of Analysis No. H9-9711811-09

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

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

P.O.#
H177106, COC#072088
DATE: 12/02/97

PROJECT: #11126, NA
SITE: Emeryville, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-9

PROJECT NO: 10-061-8-2
MATRIX: WATER
DATE SAMPLED: 11/17/97
DATE RECEIVED: 11/19/97

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include MTBE, Benzene, Toluene, Ethylbenzene, Total Xylene.

Surrogate % Recovery
1,4-Difluorobenzene 85
4-Bromofluorobenzene 103

Method 8020A***
Analyzed by: VHZ
Date: 11/25/97

Gasoline Range Organics 100 1.2 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 127
4-Bromofluorobenzene 121

California LUFT Manual for Gasoline
Analyzed by: LJ
Date: 11/25/97 04:37:00

(P) - Practical Quantitation Limit

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

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



Certificate of Analysis No. H9-9711811-10

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

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

P.O.#
H177106, COC#072088
DATE: 12/02/97

PROJECT: #11126, NA
SITE: Emeryville, CA
SAMPLED BY: Alisto Engineering
SAMPLE ID: S-10

PROJECT NO: 10-061-8-2
MATRIX: WATER
DATE SAMPLED: 11/17/97
DATE RECEIVED: 11/19/97

ANALYTICAL DATA

Table with 5 columns: PARAMETER, RESULTS, DETECTION LIMIT, UNITS. Rows include MTBE, Benzene, Toluene, Ethylbenzene, Total Xylene.

Surrogate % Recovery
1,4-Difluorobenzene 87
4-Bromofluorobenzene 103

Method 8020A***
Analyzed by: VHZ
Date: 11/26/97

Gasoline Range Organics 100 1.2 P mg/L

Surrogate % Recovery
1,4-Difluorobenzene 125
4-Bromofluorobenzene 121

California LUFT Manual for Gasoline
Analyzed by: LJ
Date: 11/25/97 05:04:00

(P) - Practical Quantitation Limit

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

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

QUALITY CONTROL
DOCUMENTATION



** SPL BATCH QUALITY CONTROL REPORT **
METHOD 8010 & 601****

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

Matrix: Aqueous
Units: µg/L

Batch Id: HP_F971121061400

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Dichlorodifluoromethane	ND	20	14	70.0	9 - 168
Chloromethane	ND	20	17	85.0	11 - 139
Vinyl chloride	ND	20	17	85.0	51 - 126
Bromomethane	ND	20	17	85.0	34 - 141
Chloroethane	ND	20	17	85.0	27 - 174
Trichlorofluoromethane	ND	20	18	90.0	60 - 140
1,1-Dichloroethene	ND	20	20	100	51 - 132
Methylene chloride	ND	20	20	100	44 - 151
Trans-1,2-Dichloroethene	ND	20	20	100	50 - 155
1,1-Dichloroethane	ND	20	20	100	52 - 132
Chloroform	ND	20	20	100	75 - 124
1,1,1-Trichloroethane	ND	20	21	105	41 - 138
Carbon tetrachloride	ND	20	21	105	61 - 124
1,2-Dichloroethane	ND	20	20	100	79 - 121
2-Chloroethylvinyl ether	ND	20	19	95.0	38 - 122
Trichloroethene	ND	20	20	100	36 - 146
1,2-Dichloropropane	ND	20	20	100	44 - 151
Bromodichloromethane	ND	20	21	105	65 - 135
cis-1,3-Dichloropropene	ND	20	21	105	59 - 149
trans-1,3-Dichloropropene	ND	20	22	110	79 - 121
1,1,2-Trichloroethane	ND	20	20	100	66 - 129
Tetrachloroethene	ND	20	20	100	79 - 121
Dibromochloromethane	ND	20	21	105	52 - 148
Chlorobenzene	ND	20	20	100	84 - 126
Bromoform	ND	20	21	105	48 - 132
1,1,2,2-Tetrachloroethane	ND	20	18	90.0	51 - 151
1,3-Dichlorobenzene	ND	20	21	105	75 - 124
1,4-Dichlorobenzene	ND	20	20	100	72 - 125
1,2-Dichlorobenzene	ND	20	21	105	20 - 190

MATRIX SPIKES

SPIKE COMPOUNDS	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
			DICHLORODIFLUOROMETHANE	ND	20	14		70.0	14
CHLOROMETHANE	ND	20	17	85.0	17	85.0	0	29	39 - 175
VINYL CHLORIDE	ND	20	18	90.0	18	90.0	0	44	32 - 156
BROMOMETHANE	ND	20	18	90.0	17	85.0	5.71	52	26 - 180
CHLOROETHANE	ND	20	18	90.0	17	85.0	5.71	42	27 - 174



** SPL BATCH QUALITY CONTROL REPORT **
METHOD 8010 & 601****

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

Matrix: Aqueous
Units: µg/L

Batch Id: HP_F971121061400

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results	Spike Added	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result	Recovery	Result	Recovery		RPD Max.	Recovery Range
			<2>	<3>	<1>	<4>		<1>	<5>
TRICHLOROFLUOROMETHANE	ND	20	18	90.0	18	90.0	0	38	36 - 163
1,1-DICHLOROETHENE	ND	20	19	95.0	20	100	5.13	42	57 - 140
METHYLENE CHLORIDE	ND	20	20	100	20	100	0	32	67 - 137
TRANS-1,2-DICHLOROETHENE	ND	20	20	100	19	95.0	5.13	31	58 - 154
1,1-DICHLOROETHANE	ND	20	20	100	20	100	0	50	47 - 132
CHLOROFORM	ND	20	20	100	20	100	0	40	53 - 132
1,1,1-TRICHLOROETHANE	ND	20	20	100	20	100	0	27	34 - 135
CARBON TETRACHLORIDE	ND	20	21	105	20	100	4.88	32	54 - 111
1,2-DICHLOROETHANE	ND	20	20	100	20	100	0	50	49 - 155
2-CHLOROETHYL VINYL ETHER	ND	20	0	0 *	0	0 *	0	20	38 - 152
TRICHLOROETHENE	ND	20	19	95.0	19	95.0	0	29	30 - 146
1,2-DICHLOROPROPANE	ND	20	21	105	20	100	4.88	41	44 - 123
BROMODICHLOROMETHANE	ND	20	21	105	21	105	0	38	49 - 179
CIS-1,3-DICHLOROPROPENE	ND	20	22	110	21	105	4.65	34	38 - 137
TRANS-1,3-DICHLOROPROPENE	ND	20	23	115	22	110	4.44	47	38 - 164
1,1,2-TRICHLOROETHANE	ND	20	21	105	21	105	0	43	45 - 128
TETRACHLOROETHENE	ND	20	19	95.0	19	95.0	0	38	17 - 138
DIBROMOCHLOROMETHANE	ND	20	23	115	22	110	4.44	41	38 - 162
CHLOROBENZENE	ND	20	20	100	19	95.0	5.13	50	58 - 122
BROMOFORM	ND	20	24	120	22	110	8.70	49	31 - 174
1,1,2,2-TETRACHLOROETHANE	ND	20	23	115	22	110	4.44	50	21 - 181
1,3-DICHLOROBENZENE	ND	20	21	105	21	105	0	36	24 - 151
1,4-DICHLOROBENZENE	ND	20	20	100	20	100	0	12	46 - 150
1,2-DICHLOROBENZENE	ND	20	21	105	21	105	0	12	44 - 153

Analyst: RL
Sequence Date: 11/21/97
SPL ID of sample spiked: 9711786-06B
Sample File ID: FFK7294.TX0
Method Blank File ID:
Blank Spike File ID: FFK7288.TX0
Matrix Spike File ID: FFK7290.TX0
Matrix Spike Duplicate File ID: FFK7291.TX0

* = Values Outside QC Range. « = 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 Limits (1st Q '97)
(***) = Source: SPL-Houston Historicals 1st Quarter '97

SAMPLES IN BATCH(SPL ID):

9711894-02A	9711894-03A	9711894-04A	9711894-05A
9711894-06A	9711781-01C	9711781-03C	9711781-02C
9711894-07A	9711894-08A	9711894-09A	9711894-10A
9711894-11A	9711894-12A	9711894-13A	9711786-06B
9711811-05C	9711894-19A	9711894-20A	9711894-01A



** SPL BATCH QUALITY CONTROL REPORT **
METHOD 8020/602

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

Matrix: Aqueous
Units: µg/L

Batch Id: HP_U971124114800

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
MTBE	ND	50	52	104	72 - 128
Benzene	ND	50	52	104	61 - 119
Toluene	ND	50	52	104	65 - 125
EthylBenzene	ND	50	51	102	70 - 118
O Xylene	ND	50	51	102	72 - 117
M & P Xylene	ND	100	99	99.0	72 - 116

MATRIX SPIKES

SPIKE COMPOUNDS	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	ND	20	18	90.0	18	90.0	0	20	39 - 150
BENZENE	ND	20	18	90.0	17	85.0	5.71	21	32 - 164
TOLUENE	ND	20	18	90.0	17	85.0	5.71	20	38 - 159
ETHYLBENZENE	ND	20	18	90.0	18	90.0	0	19	52 - 142
O XYLENE	ND	20	17	85.0	17	85.0	0	18	53 - 143
M & P XYLENE	ND	40	32	80.0	28	70.0	13.3	17	53 - 144

Analyst: LJ
Sequence Date: 11/24/97
SPL ID of sample spiked: 9711811-01A
Sample File ID: U_K7751.TX0
Method Blank File ID:
Blank Spike File ID: U_K7730.TX0
Matrix Spike File ID: U_K7777.TX0
Matrix Spike Duplicate File ID: U_K7778.TX0

* = Values Outside QC Range. < = 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):
9711811-06A 9711811-08A 9711690-02A 9711811-01A
9711811-02A 9711606-04A 9711811-03A 9711811-04A



** SPL BATCH QUALITY CONTROL REPORT **
METHOD 8020/602

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

Matrix: Aqueous
Units: µg/L

Batch Id: HP_U971125093900

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
MTBE	ND	50	40	80.0	72 - 128
Benzene	ND	50	43	86.0	61 - 119
Toluene	ND	50	42	84.0	65 - 125
EthylBenzene	ND	50	42	84.0	70 - 118
O Xylene	ND	50	41	82.0	72 - 117
M & P Xylene	ND	100	80	80.0	72 - 116

MATRIX SPIKES

SPIKE COMPOUNDS	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	46	20	60	70.0	73	135	63.4 *	20	39 - 150
BENZENE	ND	20	22	110	26	130	16.7	21	32 - 164
TOLUENE	ND	20	21	105	25	125	17.4	20	38 - 159
ETHYLBENZENE	ND	20	21	105	25	125	17.4	19	52 - 142
O XYLENE	ND	20	21	105	25	125	17.4	18	53 - 143
M & P XYLENE	ND	40	40	100	47	118	16.5	17	53 - 144

Analyst: LJ

Sequence Date: 11/25/97

SPL ID of sample spiked: 9711811-05A

Sample File ID: U_K7784.TX0

Method Blank File ID:

Blank Spike File ID: U_K7775.TX0

Matrix Spike File ID: U_K7779.TX0

Matrix Spike Duplicate File ID: U_K7780.TX0

* = Values Outside QC Range. « = 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):
 9711811-05A 9711815-01A 9711811-07A 9711811-04A
 9711811-06A 9711811-08A 9711811-09A 9711811-10A
 9711901-01A



**** SPL BATCH QUALITY CONTROL REPORT ****
 State of Tennessee Method for Gasoline

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

Matrix: Aqueous
 Units: mg/L

Batch Id: HP_U971124195700

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	0.85	85.0	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	ND	0.90	0.91	101	0.88	97.8	3.22	36	36 - 160

Analyst: LJ
 Sequence Date: 11/24/97
 SPL ID of sample spiked: 9711811-02A
 Sample File ID: UUK7752.TX0
 Method Blank File ID:
 Blank Spike File ID: UUK7742.TX0
 Matrix Spike File ID: UUK7747.TX0
 Matrix Spike Duplicate File ID: UUK7748.TX0

* = Values Outside QC Range. « = Data outside Method Specification Limits.
 NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
 ND = Not Detected/Below Detection Limit
 $\% \text{ Recovery} = [(<1> - <2>) / <3>] \times 100$
 $\text{LCS } \% \text{ Recovery} = (<1> / <3>) \times 100$
 $\text{Relative Percent Difference} = [(<4> - <5>) / [(<4> + <5>) \times 0.5]] \times 100$
 (**) = Source: SPL Historical Limits (1st Q.'97)
 (***) = Source: SPL-Houston Historical Data (1st Q '97)

SAMPLES IN BATCH(SPL ID):
 9711811-03A 9711811-04A 9711811-05A 9711811-07A
 9711811-08A 9711811-09A 9711811-10A 9711811-01A
 9711811-02A



** SPL BATCH QUALITY CONTROL REPORT **
California LUFT Manual for Gasoline

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

Matrix: Aqueous
Units: mg/L

Batch Id: HP_U971125100600

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Gasoline Range Organics	ND	1.00	0.82	82.0	64 - 131

MATRIX SPIKES

SPIKE COMPOUNDS	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	4.60	0.90	5.00	NC	5.00	NC	NC	36	36 - 160

Analyst: VHZ

Sequence Date: 11/25/97

SPL ID of sample spiked: 9711B15-01A

Sample File ID: UUK7785.TX0

Method Blank File ID:

Blank Spike File ID: UUK7776.TX0

Matrix Spike File ID: UUK7781.TX0

Matrix Spike Duplicate File ID: UUK7782.TX0

* = Values Outside QC Range. « = 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):

9711B15-01A 9711811-06A



** SPL BATCH QUALITY CONTROL REPORT **

State of Tennessee Method for Diesel

HOUSTON LABORATORY

8880 INTERCHANGE DRIVE

HOUSTON, TEXAS 77054

PHONE (713) 660-0901

Matrix: Aqueous
Units: mg/L

Batch Id: HP_V971125050600

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Diesel	ND	5.0	5.2	104	53 - 148

MATRIX SPIKES

SPIKE COMPOUNDS	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
DIESEL	0.23	5.0	5.0	95.4	4.0	75.4	23.4	39	21 - 175

Analyst: APR

Sequence Date: 11/25/97

SPL ID of sample spiked: 9711788-18E

Sample File ID: V_K3134.TX0

Method Blank File ID:

Blank Spike File ID: V_K3133.TX0

Matrix Spike File ID: V_K3135.TX0

Matrix Spike Duplicate File ID: V_K3136.TX0

* = Values Outside QC Range. « = 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 Historical Limits 1st Qtr'97 and 4th Qtr'97

(***) = Source: SPL Historical Limits 1st Qtr.'97 and 4th Qtr.'97

SAMPLES IN BATCH(SPL ID):

9711813-03B 9711811-05B 9711879-01A 9711790-01A
 9711790-02A 9711790-03A 9711790-04A 9711790-05A
 9711790-06A 9711790-07A 9711790-08A 9711792-01A
 9711792-02A 9711792-03A 9711788-18E 9711788-19E
 9711813-01B 9711813-02B



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

**** SPL QUALITY CONTROL REPORT ****

Matrix: Aqueous

Reported on: 12/01/97

Analyzed on: 12/01/97

Analyst: WV

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Hydrocarbons by Gravimetry
 Method 5520 B & F **

SPL Sample ID Number	Method Blank mg/L	Sample Result mg/L	Spike Added mg/L	Matrix Spike		Matrix Spike Duplicate		RPD (%)	QC LIMITS (Advisory)		
				Result mg/L	Recovery %	Result mg/L	Recovery %		RPD Max	% REC	
BLANK	ND	ND	40.0	41.7	104	40.9	102	1.9	7.9	84	-108

971201WV

-9712035

Samples in batch:

9711811-05D 9711813-03D

COMMENTS:

SAMPLING AND ANALYTICAL RESULTS

The results of monitoring and laboratory analysis of the groundwater samples for this and previous quarters are summarized in Table 1. The potentiometric groundwater elevations as interpreted from the results of this monitoring event are shown on Figure 2. The results of groundwater analysis are shown on Figure 3. The laboratory report and chain of custody record are presented in Appendix B.



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO 11126
 1700 POWELL STREET, EMERYVILLE, CALIFORNIA

ALISTO PROJECT NO. 10-061

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW-1	11/04/92	7.76	4.96	--	2.80	5300	--	1100	480	ND<0.5	1500	--	--	--	--	PACE
MW-1	10/12/93	7.76	5.26	--	2.50	3600	--	970	71	100	550	--	--	--	--	PACE
MW-1	02/15/94	7.76	4.98	--	2.78	17000	--	4200	510	360	1600	--	--	--	--	PACE
MW-1	05/11/94	7.76	4.55	--	3.21	5500	--	2900	37	56	64	--	--	--	3.9	PACE
MW-1	08/01/94	7.76	5.51	--	2.25	15000	--	3600	740	510	2800	9700	(d)	--	8.0	PACE
QC-1 (e)	08/01/94	--	--	--	--	16000	--	3600	750	510	2800	9800	(d)	--	2.9	PACE
MW-1	10/18/94	7.76	5.11	--	2.65	16000	--	1800	61	160	890	--	--	--	--	PACE
QC-1 (e)	10/18/94	--	--	--	--	16000	--	1900	64	170	950	--	--	--	2.9	PACE
MW-1	01/13/95	7.76	3.05	--	4.71	220	--	7	ND<0.5	1	23	--	--	--	--	PACE
QC-1 (e)	01/13/95	--	--	--	--	590	--	88	0.7	ND<0.5	55	--	--	--	6.6	ATI
MW-1	04/13/95	7.76	3.84	--	3.92	9300	--	4000	300	200	950	--	--	--	--	ATI
MW-1	07/11/95	7.76	3.60	--	4.16	15000	--	2200	84	ND<25	2500	--	--	--	7.7	ATI
MW-1	11/02/95	7.76	4.58	--	3.18	19000	--	920	ND<100	ND<100	430	--	--	--	8.8	ATI
MW-1	02/05/96	7.76	4.43	--	3.33	4600	--	1400	330	54	247	8700	--	--	7.3	ATI
MW-1	04/24/96	7.76	4.00	--	3.76	2000	--	510	33	61	228	4500	--	--	3.2	SPL
MW-1	07/15/96	7.76	4.30	--	3.46	--	--	--	--	--	--	--	--	--	7.5	SPL
MW-1	07/16/96	7.76	--	--	--	12000	--	2800	170	390	1630	64000	--	--	--	--
QC-1 (e)	07/16/96	--	--	--	--	12000	--	2800	160	390	1610	63000	--	--	7.9	SPL
MW-1	07/30/96	7.76	4.64	--	3.12	--	--	--	--	--	--	--	--	--	--	--
MW-1	08/12/96	7.76	--	--	--	11000	--	2500	160	ND<10	1740	440000	--	--	7.0	SPL
MW-1	11/04/96	7.76	5.98	--	1.78	--	--	--	--	--	--	--	--	--	--	--
MW-1	11/05/96	7.76	--	--	--	53000	--	1300	43	100	349	42000/190000	(f)	--	6.6	SPL
MW-1	05/17/97	7.76	4.65	--	3.11	52000	--	1958	55	305	1216	140198	--	--	5.7	SPL
MW-1	08/11/97	7.76	4.93	--	2.86	25000	--	540	6.7	ND<5.0	57	360000	--	--	7.9	SPL
MW-2	11/04/92	8.56	5.88	--	2.68	12000	--	3900	1300	ND<0.5	2300	--	--	--	--	PACE
QC-1 (e)	11/04/92	--	--	--	0.00	12000	--	3200	980	ND<0.5	1900	--	--	--	--	PACE
MW-2	10/12/93	8.56	6.29	--	2.27	4500	--	3400	180	230	940	--	--	--	--	PACE
MW-2	02/15/94	8.56	5.56	--	3.00	2000	--	430	270	28	390	--	--	--	--	PACE
QC-1 (e)	02/15/94	--	--	--	0.00	1800	--	290	160	14	250	--	--	--	4.0	PACE
MW-2	05/11/94	8.56	5.17	--	3.39	14000	--	3900	1200	440	1900	--	--	--	8.9	PACE
QC-1 (e)	05/11/94	--	--	--	--	15000	--	5800	1500	470	2000	740	(d)	--	--	PACE
MW-2	08/01/94	8.56	5.43	--	3.13	8200	--	3000	420	230	680	--	--	--	2.6	PACE
MW-2	10/18/94	8.56	5.71	--	2.85	9000	--	2000	140	150	420	--	--	--	7.2	PACE
MW-2	01/13/95	8.56	4.67	--	3.89	7900	--	2200	42	ND<5	770	--	--	--	6.8	ATI
MW-2	04/13/95	8.56	4.37	--	4.19	33000	--	8000	2500	1100	6600	--	--	--	7.5	ATI
QC-1 (e)	04/13/95	--	--	--	--	25000	--	6500	1500	110	5300	--	--	--	--	ATI
MW-2	07/11/95	8.56	4.51	--	4.05	19000	--	3300	99	7.5	4600	--	--	--	7.8	ATI
QC-1 (e)	07/11/95	--	--	--	--	28000	--	6800	1000	900	4900	--	--	--	--	ATI
MW-2	11/02/95	8.56	5.55	--	3.01	20000	--	3800	1200	570	2700	15000	--	--	7.3	ATI
QC-1 (e)	11/02/95	--	--	--	--	22000	--	4000	1200	600	2700	19000	--	--	--	ATI
MW-2	02/05/96	8.56	5.10	--	3.46	1200	--	320	220	26	187	99	--	--	2.2	SPL
QC-1 (e)	02/05/96	--	--	--	--	910	--	290	180	19	137	93	--	--	--	SPL
MW-2	04/24/96	8.56	4.95	--	3.61	ND<500	--	70	22	ND<10	61	ND<50	--	--	7.0	SPL
QC-1 (e)	04/24/96	--	--	--	--	ND<500	--	100	30	ND<10	71	ND<100	--	--	--	SPL
MW-2	07/15/96	8.56	5.40	--	3.16	--	--	--	--	--	--	--	--	--	--	--
MW-2	07/16/96	8.56	--	--	--	12000	--	3300	1400	250	2610	1400	--	--	7.8	SPL
MW-2	07/30/96	8.56	5.44	--	3.12	--	--	--	--	--	--	--	--	--	--	--
MW-2	11/04/96	8.56	7.06	--	1.50	--	--	--	--	--	--	--	--	--	--	--
MW-2	11/05/96	8.56	--	--	--	7200	--	1400	230	38	2110	1100	--	--	7.4	SPL
QC-1 (e)	11/05/96	--	--	--	--	9200	--	1300	170	ND<25	2240	1100	--	--	--	SPL
MW-2	05/17/97	8.56	5.77	--	2.79	570	--	42	ND<5.0	5.0	60	210	--	--	6.9	SPL
MW-2	08/11/97	8.56	5.71	--	2.85	6300	--	1800	130	86	397	2400	--	--	8.5	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO 11126
 1700 POWELL STREET, EMERYVILLE, CALIFORNIA

AJUSTO PROJECT NO. 10-061

WELL ID	DATE OF SAMPLING/MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW-3	11/04/92	8.25	6.38	---	1.87	200	690	1.6	ND<0.5	ND<0.5	1.1	---	ND<5000	ND	---	PACE
MW-3	10/12/93	8.25	5.84	---	2.41	270	2100	5.0	0.7	ND<0.5	2.6	---	ND<5000	ND	---	PACE
QC-1 (e)	10/12/93	---	---	---	0.00	150	---	5.6	0.6	ND<0.5	1.6	---	---	---	---	PACE
MW-3	02/15/94	8.25	6.60	---	1.65	140	2.3	5.7	ND<0.5	ND<0.5	ND<0.5	---	90	ND	3.9	PACE
MW-3	05/11/94	8.25	5.86	---	2.39	190	2500	2.7	1.9	ND<0.5	1.9	51	(d) ND<5000	ND	9.2	PACE
MW-3	08/01/94	8.25	6.13	---	2.12	120	1300	1.3	ND<0.5	0.5	1.1	---	ND<5000	ND	2.9	PACE
MW-3	10/18/94	8.25	6.39	---	1.86	100	2200	2.3	ND<0.5	ND<0.5	ND<0.5	---	ND<5000	ND	3.6	PACE
MW-3	01/13/95	8.25	5.47	---	2.78	ND<50	970	0.8	ND<0.5	ND<0.5	ND<1	---	---	ND	7.7	ATI
MW-3	04/13/95	8.25	5.17	---	3.08	530	ND<500	8.7	1.9	ND<0.5	3.9	---	2100	ND	8.4	ATI
MW-3	07/11/95	8.25	5.37	---	2.88	78	2100	0.57	ND<0.50	ND<0.50	ND<1.0	---	1900	ND	8.3	ATI
MW-3	11/02/95	8.25	6.29	---	1.96	250	2000	0.73	ND<0.50	ND<0.50	1.8	270	1400	ND	8.3	ATI
MW-3	02/05/96	8.25	5.80	---	2.45	ND<50	1600	ND<0.5	ND<1	ND<1	2.7	11	9000	ND	3.5	SPL
MW-3	04/24/96	8.25	5.69	---	2.56	ND<50	2800	ND<5	ND<10	ND<10	ND<10	150	6000	ND	8.6	SPL
MW-3	07/15/96	8.25	6.18	---	2.07	ND<250	3700	ND<2.5	ND<5	ND<5	ND<5	ND<50	1000	ND	7.7	SPL
MW-3	07/30/96	8.25	6.04	---	2.21	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/04/96	8.25	7.84	---	0.41	---	---	---	---	---	---	---	---	---	---	---
MW-3	11/05/96	8.25	---	---	---	90	890	ND<0.5	ND<1.0	ND<1.0	ND<1.0	30	2000	ND	6.8	SPL
MW-3	05/17/97	8.25	6.49	---	1.76	ND<50	2100	ND<0.5	ND<1.0	ND<1.0	ND<1.0	52	700	ND	6.3	SPL
MW-3	08/11/97	8.25	6.15	---	2.10	490	1900	ND<2.5	ND<5.0	ND<5.0	ND<5.0	170	ND<5000	ND	7.4	SPL
MW-4	11/04/92	8.12	6.66	---	1.46	340	---	4.5	ND<0.5	4.3	ND<0.5	---	---	---	---	PACE
MW-4	10/12/93	8.12	6.87	---	1.25	160	---	5.8	1.4	0.8	2.7	---	---	---	---	PACE
MW-4	02/15/94	8.12	6.61	---	1.51	110	---	4.4	0.7	ND<0.5	2.5	120	(d) ---	---	4.3	PACE
MW-4	05/11/94	8.12	5.88	---	2.23	120	---	0.5	0.8	ND<0.5	ND<0.5	140	(d) ---	---	9.3	PACE
MW-4	08/01/94	8.12	6.87	---	1.25	140	---	0.7	2.0	5.2	15	---	---	---	3.3	PACE
MW-4	10/18/94	8.12	6.62	---	1.50	140	---	3.5	ND<0.5	0.5	ND<0.5	---	---	---	3.0	PACE
MW-4	01/13/95	8.12	7.27	---	0.85	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	7.9	ATI
MW-4	04/13/95	8.12	6.51	---	1.61	73	---	1.2	ND<0.5	ND<0.5	ND<1	---	---	---	9.9	ATI
MW-4	07/11/95	8.12	6.21	---	1.91	82	---	0.57	ND<0.50	ND<0.50	ND<1.0	---	---	---	7.2	ATI
MW-4	11/02/95	8.12	6.78	---	1.34	71	---	1.4	0.96	0.99	2.8	140	---	---	8.6	ATI
MW-4	02/05/96	8.12	6.41	---	1.71	ND<50	---	ND<5	ND<10	ND<10	ND<10	200	---	---	4.4	SPL
MW-4	04/24/96	8.12	6.18	---	1.94	ND<250	---	ND<2.5	ND<5	ND<5	ND<5	510	---	---	8.3	SPL
MW-4	07/15/96	8.12	6.63	---	1.49	ND<50	---	5.7	ND<1	ND<1	ND<1	550	---	---	7.4	SPL
MW-4	07/30/96	8.12	6.34	---	1.78	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/04/96	8.12	8.27	---	-0.15	---	---	---	---	---	---	---	---	---	---	---
MW-4	11/05/96	8.12	---	---	---	480	---	ND<2.5	11	ND<5.0	ND<5.0	620/610	(f) ---	---	7.3	SPL
MW-4	05/17/97	8.12	7.00	---	1.12	---	---	---	---	---	---	---	---	---	---	---
MW-4	08/11/97	8.12	6.81	---	1.31	---	---	---	---	---	---	---	---	---	---	---
MW-5	10/12/93	7.69	6.01	---	1.68	---	---	---	---	---	---	---	---	---	---	---
MW-5	10/13/93	---	---	---	---	2300	---	160	10	ND<0.5	26	---	---	---	---	PACE
MW-5	02/15/94	7.69	5.74	---	1.95	5100	---	710	16	33	35	100	(d) ---	---	4.0	PACE
MW-5	05/11/94	7.69	5.28	---	2.41	11000	---	1100	39	110	57	160	(d) ---	---	8.0	PACE
MW-5	08/01/94	7.69	5.84	---	1.85	9000	---	730	35	61	41	200	(d) ---	---	2.6	PACE
MW-5	10/18/94	7.69	6.01	---	1.68	7800	---	330	30	27	27	---	---	---	5.6	PACE
MW-5	01/13/95	7.69	4.74	---	2.95	ND<500	---	290	6	ND<5	18	---	---	---	6.8	ATI
MW-5	04/13/95	7.69	5.50	---	2.19	9100	---	400	15	52	27	---	---	---	7.4	ATI
MW-5	07/11/95	7.69	5.75	---	1.94	7300	---	390	13	28	23	---	---	---	7.2	ATI
MW-5	11/03/95	7.69	6.65	---	1.04	7200	---	270	15	38	23	200	---	---	8.4	ATI
MW-5	02/05/96	7.69	4.83	---	2.86	4600	---	370	15	53	28	ND<50	---	---	1.9	SPL
MW-5	04/24/96	7.69	6.09	---	1.60	3000	---	180	ND<10	32	14	ND<100	---	---	8.1	SPL
MW-5	07/15/96	7.69	6.57	---	1.12	---	---	---	---	---	---	---	---	---	---	---
MW-5	07/16/96	7.69	---	---	---	ND<50	---	190	ND<10	31	16	ND<100	---	---	8.3	SPL
MW-5	07/30/96	7.69	5.61	---	2.08	---	---	---	---	---	---	---	---	---	---	---
MW-5	08/12/96	7.69	---	---	---	2000	---	150	12	25	18.2	ND<50	---	---	7.6	SPL
MW-5	11/04/96	7.69	8.25	---	-0.56	---	---	---	---	---	---	---	---	---	---	---
MW-5	11/05/96	7.69	---	---	---	5200	---	42	5.5	13	ND<5.0	1700	---	---	7.4	SPL
MW-5	05/17/97	7.69	6.95	---	0.74	80	---	0.56	ND<1.0	ND<1.0	ND<1.0	46	---	---	6.7	SPL
MW-5	08/11/97	7.69	6.72	---	0.97	2700	---	20	12	6.7	9.7	1900	---	---	8.5	SPL

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO 11126
 1700 POWELL STREET, EMERYVILLE, CALIFORNIA

ALISTO PROJECT NO 10-061

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW-6	10/12/93	8.52	6.59	--	1.93	63	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	PACE
MW-6	02/15/94	8.52	6.31	--	2.21	68	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	38	(d)	--	3.1	PACE
MW-6	05/11/94	8.52	6.15	--	2.37	68	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	48	(d)	--	2.4	PACE
MW-6	08/01/94	8.52	6.46	--	2.06	91	--	ND<0.5	ND<0.5	ND<0.5	0.6	--	--	--	2.4	PACE
MW-6	10/18/94	8.52	6.72	--	1.80	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	6.0	PACE
MW-6	01/13/95	8.52	5.95	--	2.57	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	--	7.0	ATI
MW-5	04/13/95	8.52	5.44	--	3.08	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	--	8.5	ATI
MW-6	07/11/95	8.52	5.68	--	2.84	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	--	8.4	ATI
MW-6	11/02/95	8.52	6.57	--	1.95	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	35	--	--	8.3	ATI
MW-6	02/05/96	8.52	6.27	--	2.25	ND<50	--	ND<5	ND<10	ND<10	ND<10	ND<100	--	--	2.2	SPL
MW-6	04/24/96	8.52	5.95	--	2.57	ND<250	--	ND<2.5	ND<5	ND<5	ND<5	62	--	--	8.0	SPL
MW-6	07/15/96	8.52	6.39	--	2.13	ND<250	--	ND<2.5	ND<5	ND<5	ND<5	ND<50	--	--	8.0	SPL
MW-6	07/30/96	8.52	6.44	--	2.08	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/04/96	8.52	8.05	--	0.47	--	--	--	--	--	--	--	--	--	--	--
MW-6	11/05/96	8.52	--	--	--	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	7.3	SPL
MW-6	05/17/97	8.52	6.75	--	1.77	--	--	--	--	--	--	--	--	--	--	--
MW-6	08/11/97	8.52	6.48	--	2.04	--	--	--	--	--	--	--	--	--	--	--
MW-7	10/12/93	7.61	6.14	--	1.47	ND<50	--	ND<0.5	ND<0.5	ND<0.5	0.7	--	--	--	--	PACE
MW-7	02/15/94	7.61	5.88	--	1.73	78	--	ND<0.5	ND<0.5	ND<0.5	0.6	--	--	--	4.0	PACE
MW-7	05/11/94	7.61	5.76	--	1.85	70	--	ND<0.5	ND<0.5	ND<0.5	0.9	--	--	--	9.1	PACE
MW-7	08/01/94	7.61	5.97	--	1.64	77	--	ND<0.5	ND<0.5	ND<0.5	0.5	--	--	--	2.5	PACE
MW-7	10/18/94	7.61	6.24	--	1.37	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	6.3	PACE
MW-7	01/13/95	7.61	5.39	--	2.22	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	--	8.2	ATI
MW-7	04/13/95	7.61	5.17	--	2.44	63	--	ND<0.5	ND<0.5	ND<0.5	1.4	--	--	--	8.4	ATI
MW-7	07/11/95	7.61	5.25	--	2.36	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	--	7.9	ATI
MW-7	11/02/95	7.61	6.19	--	1.42	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	55	--	--	8.0	ATI
MW-7	02/05/96	7.61	5.69	--	1.92	ND<50	--	ND<0.5	ND<1	ND<1	ND<1	40	--	--	1.9	SPL
MW-7	04/24/96	7.61	5.59	--	2.02	ND<250	--	ND<2.5	ND<5	ND<5	ND<5	53	--	--	8.2	SPL
MW-7	07/15/96	7.61	6.07	--	1.54	ND<250	--	ND<2.5	ND<5	ND<5	ND<5	ND<50	--	--	7.8	SPL
MW-7	07/30/96	7.61	6.04	--	1.57	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/04/96	7.61	7.76	--	-0.15	--	--	--	--	--	--	--	--	--	--	--
MW-7	11/05/96	7.61	--	--	--	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	7.8	SPL
MW-7	05/17/97	7.61	6.42	--	1.19	--	--	--	--	--	--	--	--	--	--	--
MW-7	08/11/97	7.61	6.06	--	1.55	--	--	--	--	--	--	--	--	--	--	--
MW-8	10/12/93	8.60	5.86	--	2.74	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	--	PACE
MW-8	02/15/94	8.60	5.50	--	3.10	380	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	3.3	PACE
MW-8	05/11/94	8.60	5.09	--	3.51	330	--	ND<0.5	1.2	ND<0.5	1.9	--	--	--	8.5	PACE
MW-8	08/01/94	8.60	5.20	--	3.40	280	--	ND<0.5	1.2	2.9	5.8	--	--	--	2.3	PACE
MW-8	10/18/94	8.60	5.70	--	2.90	82	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	--	--	--	6.4	PACE
MW-8	01/13/95	8.60	4.96	--	3.64	ND<50	--	ND<0.5	ND<0.5	ND<0.5	ND<1	--	--	--	6.9	ATI
MW-8	04/13/95	8.60	5.40	--	3.20	ND<50	--	ND<0.5	ND<0.5	ND<0.5	4.4	--	--	--	8.4	ATI
MW-8	07/11/95	8.60	6.01	--	2.59	320	--	ND<0.50	ND<0.50	ND<0.50	3.5	--	--	--	8.0	ATI
MW-8	11/02/95	8.60	6.81	--	1.79	100	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	--	--	8.7	ATI
MW-8	02/05/96	8.60	6.12	--	2.48	ND<50	--	ND<5	ND<10	ND<10	ND<10	ND<100	--	--	1.5	SPL
MW-8	04/24/96	8.60	6.23	--	2.37	ND<50	--	ND<5	ND<10	ND<10	ND<10	ND<100	--	--	8.7	SPL
MW-8	07/15/96	8.60	6.70	--	1.90	ND<250	--	ND<2.5	ND<5	ND<5	ND<5	ND<50	--	--	8.4	SPL
MW-8	07/30/96	8.60	6.64	--	1.96	--	--	--	--	--	--	--	--	--	--	--
MW-8	11/04/96	8.60	8.36	--	0.24	--	--	--	--	--	--	--	--	--	--	--
MW-8	11/05/96	8.60	--	--	--	ND<50	--	ND<0.5	ND<1.0	ND<1.0	ND<1.0	ND<10	--	--	7.2	SPL
MW-8	05/17/97	8.60	7.03	--	1.57	--	--	--	--	--	--	--	--	--	--	--
MW-8	08/11/97	8.60	6.05	--	2.55	--	--	--	--	--	--	--	--	--	--	--

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11126
 1700 POWELL STREET, EMERYVILLE, CALIFORNIA

ALISTO PROJECT NO. 10-061

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	TPH-D (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TOG (ug/l)	HVOC (ug/l)	DO (ppm)	LAB
MW-9	10/12/93	8.08	5.66	0.08	2.48	---	---	---	---	---	---	---	---	---	---	---
MW-9	02/15/94	8.08	5.32	0.05	2.80	---	---	---	---	---	---	---	---	---	---	---
MW-9	05/11/94	8.08	5.57	---	2.51	---	---	---	---	---	---	---	---	---	---	---
MW-9	08/01/94	8.08	6.25	---	1.83	---	---	---	---	---	---	---	---	---	---	---
MW-9	10/18/94	8.08	5.59	0.13	2.59	---	---	---	---	---	---	---	---	---	---	---
MW-9	01/13/95	8.08	4.42	0.14	3.77	---	---	---	---	---	---	---	---	---	---	---
MW-9	04/13/95	8.08	4.06	0.11	4.10	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/11/95	8.08	4.21	0.08	3.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/02/95	8.08	5.22	0.05	2.90	---	---	---	---	---	---	---	---	---	---	---
MW-9	02/05/96	8.08	4.76	0.01	3.33	---	---	---	---	---	---	---	---	---	---	---
MW-9	04/24/96	8.08	4.62	0.09	3.53	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/15/96	8.08	5.11	0.04	3.00	---	---	---	---	---	---	---	---	---	---	---
MW-9	07/30/96	8.08	5.15	---	2.93	---	---	---	---	---	---	---	---	---	---	---
MW-9	11/04/96	8.08	6.75	0.01	1.34	---	---	---	---	---	---	---	---	---	---	---
MW-9	05/17/97	8.08	5.42	---	2.66	97000	---	16000	7700	2300	18400	40000	---	---	---	---
QC-1 (e)	05/17/97	---	---	---	---	97000	---	16000	8200	2300	17300	39000	---	---	7.0	SPL
MW-9	08/11/97	8.08	5.37	---	2.71	71000	---	12000	340	2100	4300	26000	---	---	9.1	SPL
QC-1 (e)	08/11/97	---	---	---	---	100000	---	14000	360	3200	5790	27000	---	---	---	SPL
QC-2 (g)	11/05/92	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	---
QC-2 (g)	10/12/93	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	02/15/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	05/11/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	08/01/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	10/18/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	01/13/95	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---	PACE
QC-2 (g)	04/13/95	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	ATI
QC-2 (g)	07/11/95	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	---	ATI
QC-2 (g)	11/02/95	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	---	---	---	---	ATI
QC-2 (g)	02/05/96	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<1.0	ND<5.0	---	---	---	ATI
QC-2 (g)	04/24/96	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	SPL
QC-2 (g)	07/16/96	---	---	---	---	ND<50	---	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	---	SPL

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
 HVOC Halogenated volatile organic compounds
 DO Dissolved oxygen
 ug/l Micrograms per liter
 ppm Parts per million
 ND Not detected above reported detection limit
 --- Not analyzed/applicable/measurable
 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 8 11 feet above mean sea level
- (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.
- (c) Detection limits vary, see laboratory report
- (d) A copy of the documentation for this data is included in Appendix C of Alisto report 10-061-07-004.
- (e) Blind duplicate.
- (f) EPA Methods 8020/8260 used.
- (g) Travel blank.

TABLE 2
 PRODUCT REMOVAL STATUS
 BP OIL COMPANY SERVICE STATION NO. 11126
 1700 POWELL STREET, EMERYVILLE, CALIFORNIA

ALISTO PROJECT NO. 10-061

WELL ID	DATE	PRODUCT THICKNESS (Feet)	PRODUCT REMOVED (Gallons)	PRODUCT REMOVED CUMULATIVE (Gallons)
MW-9	12/02/93	4.62	0.15	0.15
MW-9	12/09/93	2.45	0.15	0.30
MW-9	12/30/93	2.39	0.15	0.45
MW-9	01/12/94	2.15	0.02	0.47
MW-9	02/02/94	1.82	Sheen	0.47
MW-9	02/15/94	3.75	0.35	0.82
MW-9	05/11/94	3.00	Sheen	0.82
MW-9	05/27/94	1.50	Sheen	0.82
MW-9	06/25/94	1.32	Sheen	0.82
MW-9	08/01/94	---	Sheen	0.82
MW-9	10/18/94	0.13	---	0.82
MW-9	01/13/95	0.14	---	0.82
MW-9	04/13/95	0.11	---	0.82
MW-9	07/11/95	0.08	0.13	0.95
MW-9	04/24/96	0.09	0.06	1.01
MW-9	07/16/96	0.04	---	1.01
MW-9	07/30/96	---	---	1.01
MW-9	11/05/96	0.01	ND<0.01	1.01

ABBREVIATIONS:

--- Not applicable

E:\0\10-061\PRODUCT.WQ2



SOURCE:
 USGS MAP, OAKLAND WEST QUADRANGLE,
 CALIFORNIA, 7.5 MINUTE SERIES, 1959,
 PHOTOREVISED 1980.

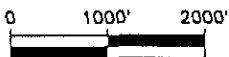


FIGURE 1

SITE VICINITY MAP

BP OIL SERVICE STATION NO. 11126
 1700 POWELL STREET
 EMERYVILLE, CALIFORNIA

PROJECT NO. 10-061



ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST

SPL Houston Environmental Laboratory

Sample Login Checklist

Date: 11-19-97	Time: 1650
--	--

SPL Sample ID: 9711811
--

		<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:	C/	C
10	Method of sample delivery to SPL:	SPL Delivery	
		Client Delivery	
		FedEx Delivery (airbill #)	3848471734
		Other:	
11	Method of sample disposal:	SPL Disposal	
		HOLD	
		Return to Client	

Name: 	Date: 11-19-97
-----------	--



9711811

CHAIN OF CUSTODY

No. 072088

Page 1 of 1

CONSULTANT'S NAME: Alisto Engineering ADDRESS: 1575 Treat Blvd #201 CITY: W.C. STATE: Ca ZIP CODE: 94598

BP SITE NUMBER: 11126 BP CORNER ADDRESS/CITY: Emeryville CONSULTANT PROJECT NUMBER: 10-061-8-2

CONSULTANT PROJECT MANAGER: Brady Noyle PHONE NUMBER: (510) 295-1650 FAX NUMBER: 295-1823 CONSULTANT CONTRACT NUMBER: H177106

BP CONTACT: Scott Hooten BP ADDRESS: Renton, WA PHONE NUMBER: - FAX NO: -

LAB CONTACT: SPL LABORATORY ADDRESS: Texas PHONE NUMBER: - FAX NO: -

SAMPLED BY (Please Print Name): Larry Buenvenido SAMPLED BY (Signature): [Signature] SHIPMENT DATE: 11/18/97 SHIPMENT METHOD: Fed Ex

TAT: 24 Hours 48 Hours 1 Week Standard 2 Weeks

ANALYSIS REQUIRED: TPH-61 STX/E MTBE 601 Huod's TPH-D TOC SS20

AIRBILL NUMBER: 3848471734

SAMPLE DESCRIPTION	COLLECTION DATE	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	TPH-61	STX/E	MTBE	601	Huod's	TPH-D	TOC	SS20	COMMENTS
	COLLECTION TIME		NO	TYPE (VOL.)	LAB SAMPLE #									
S-1	11/17/97	W	3	HCL		X	X							
S-2	↓	↓	↓	↓		↓	↓							
S-3	↓	↓	↓	↓		↓	↓							
S-4	↓	↓	↓	↓		↓	↓							
S-5	↓	↓	10	↓		↓	↓		X	X	X			
S-6	↓	↓	3	↓		↓	↓							
S-7	↓	↓	↓	↓		↓	↓							
S-8	↓	↓	↓	↓		↓	↓							ph RT
S-9	↓	↓	↓	↓		↓	↓							
S-10	↓	W	↓	↓		↓	↓							

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	ADDITIONAL COMMENTS
<u>[Signature]</u>	<u>11/18/97</u>	<u>0830</u>	<u>P. Yeaton</u>	<u>11/18/97</u>	<u>0830</u>	<u>Temp 42</u> <u>RT</u>
<u>[Signature]</u>	<u>1/5/00</u>		<u>[Signature]</u>	<u>1/19/97</u>	<u>1000</u>	

**BP EXPLORATION & OIL, INC.
ENVIRONMENTAL REMEDIATION MANAGEMENT
DATA REVIEW CHECKLIST**

BP Site Number: 11126
ERM Contact: H177106
Sampling Date: 11/17/97
Matrix Description: Water
Date Final Report Received: 12/09/97
Laboratory & Location: SPL, Houston, Texas

	Yes	No	N/A
1. Is BP contract release number consistent with analytical report?	<u>X</u>	___	___
2. Was report submitted within the specified timeframe?	<u>X</u>	___	___
3. Does report agree with the COC?	<u>X</u>	___	___
4. Are units consistent with the given matrix?	<u>X</u>	___	___
5. Were any target analytes/compounds detected in blanks (i.e., trip or equipment)?	___	___	<u>X</u>
6. Are duplicate water samples within <u>30</u> %?	<u>X</u>	___	___
7. Are holding times met?	<u>X</u>	___	___
8. Are surrogates within limits using laboratory criteria?	<u>see below</u>	___	___
9. Are MS/MSD acceptable using laboratory criteria?	<u>see below</u>	___	___
10. Are LCS results acceptable using laboratory criteria?	<u>X</u>	___	___

Notes: Surrogate recovery (n-Pentacene) during diesel analysis of S-5 and during gasoline analysis (1,4-difluorobenzene) of S-7 were outside of GC range due to matrix interferences.
MS/MSD recovery for 2-chloroethylvinyl ether values outside GC range. MS/MSD relative % difference for MTBE outside GC range and MS/MSD recovery and relative % difference for TPH-G was not calculated (sample exceeded spike by a factor of 4 or more)
 Data Validation Completed by: Bill Howell Bryady Nagh
 (signature): [Signature]
 Date: 12/17/97