



**BP OIL**

September 26, 1994

BP Oil Company  
Environmental Resources Management  
Building 13, Suite N  
295 SW 41st Street  
Renton, Washington 98055-4931  
(206) 251-0667

Mr. Ed So  
California Regional Water Quality Control Board  
San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland CA 94612

**RE: BP OIL FACILITY #11109**  
4280 Foothill Blvd  
Oakland CA

BC

Dear Mr. So:

Attached please find our **GROUNDWATER MONITORING AND SAMPLING REPORT DATED SEPTEMBER 6, 1994** for the above referenced facility.

If you should have any questions regarding this site, I may be reached at (206) 251-0689.

Respectfully,

Scott T. Hooton  
Environmental Resources Management  
Group Leader

STH:aa msword\VERM11109

cc: Mr. Barney Chan, Alameda County Health Care Services Agency  
1131 Harbour Bay Parkway, Room 250, Alameda CA 94502-6577

Mr. Mark Miller, Chevron U.S.A., 2410 Camino Ramon, San Ramon, CA 94583

Mr. Brady Angle, Alisto Engineering Group, 1777 Oakland Blvd., Suite 200,  
Walnut Creek, CA 94596

Mr. Larry Silva, TOSCO Northwest, 601 Union Street, Suite 2500, Seattle WA  
98101

Site File

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# GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11109  
4280 Foothill Boulevard  
Oakland, California

Project No. 10-014-03-001

*#102*

Prepared for:

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

Prepared by:

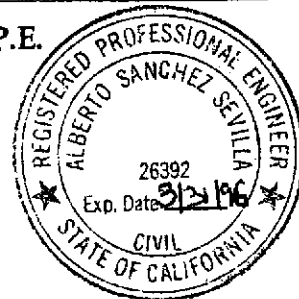
Alisto Engineering Group  
1777 Oakland Boulevard, Suite 200  
Walnut Creek, California

*295-1650*

September 6, 1994

*Brady Nagle*  
\_\_\_\_\_  
Brady Nagle  
Project Manager

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



# GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11109  
4280 Foothill Boulevard  
Oakland, California

Project No. 10-014-03-001

September 6, 1994

## INTRODUCTION

This report presents the results and findings of the July 6, 1994 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11109, 4280 Foothill Boulevard, Oakland, California. A site vicinity map is shown in 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 relative 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, and electrical conductivity. 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 in Figure 2. The results of groundwater analysis are shown in 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. 11109  
 4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TOG (ppb)	HVOC (ppb)	DO (ppm)	LAB
MW-1	01/31/90	38.19	15.41	0.00	22.78	---	---	---	---	---	---	---	---	---	---
MW-1	(c) 02/05/90	---	---	0.00	---	---	---	---	---	---	---	---	---	---	---
MW-2	02/05/90	41.22	21.91	0.00	19.31	1300	---	14	ND<1.0	9	13	---	---	---	SUP
MW-2	02/14/91	41.22	21.16	0.00	20.06	ND<50	ND<10000	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	51 (d)	---	SUP
MW-2	05/13/91	41.22	21.32	0.00	19.90	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	6000	0.5 (e)	---	SUP
MW-2	07/24/91	41.22	22.92	0.00	18.30	---	---	---	---	---	---	---	---	---	---
MW-2	10/03/91	41.22	24.90	0.00	16.32	ND<50	ND<50	ND<0.3	0.8	ND<0.3	ND<0.3	ND<5000	0.7 (e)	---	SUP
MW-2	10/15/91	41.22	24.10	0.00	17.12	---	---	---	---	---	---	---	---	---	---
MW-2	12/04/91	41.22	INACCESSIBLE	---	---	---	---	---	---	---	---	---	---	---	---
MW-2	12/16/91	41.22	23.95	0.00	17.27	---	---	---	---	---	---	---	---	---	---
MW-2	01/06/92	41.22	23.30	0.00	17.92	ND<50	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.3	ND<5000	ND	---	ANA
MW-2	01/22/92	41.22	23.14	0.00	18.08	---	---	---	---	---	---	---	---	---	---
MW-2	01/28/92	41.22	22.99	0.00	18.23	---	---	---	---	---	---	---	---	---	---
MW-2	02/05/92	41.22	22.63	0.00	18.59	---	---	---	---	---	---	---	---	---	---
MW-2	02/12/92	41.22	22.04	0.00	19.18	---	---	---	---	---	---	---	---	---	---
MW-2	02/17/92	41.22	20.84	0.00	20.38	---	---	---	---	---	---	---	---	---	---
MW-2	04/03/92	41.22	19.29	0.00	22.93	---	---	---	---	---	---	---	---	---	---
MW-2	04/08/92	41.22	18.86	0.00	22.36	ND<50	63	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	---	ANA
MW-2	04/14/92	41.22	19.45	0.00	21.77	---	---	---	---	---	---	---	---	---	---
MW-2	04/29/92	41.22	20.35	0.00	20.87	---	---	---	---	---	---	---	---	---	---
MW-2	05/07/92	41.22	20.84	0.00	20.38	---	---	---	---	---	---	---	---	---	---
MW-2	07/03/92	41.22	22.34	0.00	18.88	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-2	10/08/92	41.22	23.73	0.00	17.49	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-2	12/31/92	41.22	21.12	0.00	20.10	ND<50	---	ND<0.5	ND<0.6	ND<0.5	ND<0.5	---	---	---	ANA
MW-2	04/21/93	41.22	17.68	0.00	23.54	ND<50	ND<50 (f)	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5000	ND	---	PACE
MW-2	07/07/93	41.22	20.90	0.00	20.92	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	1.0 (e)	---	PACE
MW-2	09/21/93	41.22	21.93	0.00	19.29	ND<50	---	0.9	0.7	0.7	2.6	---	---	---	PACE
MW-2	12/17/93	41.22	21.48	---	19.74	---	---	---	---	---	---	---	---	---	---
MW-2	12/23/93	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.7	---	---	---	PACE
MW-2	04/07/94	41.22	20.25	---	20.97	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	5.9	PACE
MW-2	07/06/94	41.22	20.59	---	20.63	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	3.1	PACE

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ALISTO PROJECT NO. 10-014

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TOG (ppb)	HVOC (ppb)	DO (ppm)	LAB
MW-3	02/05/90	40.74	17.45	0.00	23.29	1400	---	15	ND<2.5	11	8	---	---	---	SUP
MW-3	02/14/91	40.74	18.52	0.00	22.22	320	---	8	ND<0.3	8	1	---	---	---	SUP
MW-3	05/13/91	40.74	19.32	0.00	21.42	640	---	13	ND<0.3	18	1	---	---	---	SUP
MW-3	07/24/91	40.74	20.69	0.00	20.05	---	---	---	---	---	---	---	---	---	---
MW-3	10/03/91	40.74	19.47	0.00	21.27	940	---	21	ND<0.3	23	2.1	---	---	---	SUP
MW-3	10/15/91	40.74	20.46	0.00	20.28	---	---	---	---	---	---	---	---	---	---
MW-3	12/04/91	40.74	18.29	0.00	22.45	---	---	---	---	---	---	---	---	---	---
MW-3	12/16/91	40.74	18.34	0.00	22.40	---	---	---	---	---	---	---	---	---	---
MW-3	01/06/92	40.74	18.50	0.00	22.24	580	---	6.1	1	6.1	7.1	---	---	---	ANA
MW-3	01/22/92	40.74	17.86	0.00	22.88	---	---	---	---	---	---	---	---	---	---
MW-3	01/28/92	40.74	15.84	0.00	24.90	---	---	---	---	---	---	---	---	---	---
MW-3	02/05/92	40.74	17.53	0.00	23.21	---	---	---	---	---	---	---	---	---	---
MW-3	02/12/92	40.74	17.15	0.00	23.59	---	---	---	---	---	---	---	---	---	---
MW-3	02/17/92	40.74	16.18	0.00	24.56	---	---	---	---	---	---	---	---	---	---
MW-3	04/03/92	40.74	14.80	0.00	25.94	---	---	---	---	---	---	---	---	---	---
MW-3	04/08/92	40.74	17.06	0.00	23.68	1100	---	30	4.8	32	11	---	---	---	ANA
MW-3	04/14/92	40.74	15.22	0.00	25.52	---	---	---	---	---	---	---	---	---	---
MW-3	04/29/92	40.74	15.90	0.00	24.84	---	---	---	---	---	---	---	---	---	---
MW-3	05/07/92	40.74	16.35	0.00	24.39	---	---	---	---	---	---	---	---	---	---
MW-3	07/03/92	40.74	17.74	0.00	23.00	1200	---	38	ND<2.5	24	ND<2.5	---	---	---	ANA
MW-3	10/08/92	40.74	19.06	0.00	21.68	1400	---	31	ND<0.5	25	13	---	---	---	ANA
MW-3	12/31/92	40.74	16.61	0.00	24.13	820	---	12	4.1	13	5.9	---	---	---	ANA
QC-1	(g) 12/31/92	---	---	---	---	960	---	11	3.6	10	3.8	---	---	---	ANA
MW-3	04/21/93	40.74	14.24	0.00	26.50	420	---	5.6	ND<0.5	3.9	1.4	---	---	---	PACE
QC-1	(g) 04/21/93	---	---	---	---	390	---	5.0	ND<0.5	3.7	1.5	---	---	---	PACE
MW-3	07/07/93	40.13	(h) 15.19	0.00	24.94	54	---	0.6	0.6	ND<0.5	ND<0.5	---	---	---	PACE
MW-3	09/21/93	40.13	16.58	0.00	23.55	540	---	7.9	0.9	4.7	2.4	---	---	---	PACE
MW-3	12/17/93	40.13	15.82	---	24.31	---	---	---	---	---	---	---	---	---	---
MW-3	12/23/93	---	---	---	---	500	---	9.8	1.5	3.3	2.1	---	---	---	PACE
QC-1	(g) 12/23/93	---	---	---	---	480	---	9.2	ND<0.5	5.4	5.3	---	---	---	PACE
MW-3	04/07/94	40.13	28.50	---	11.63	460	---	20	7.4	8.9	11	---	---	---	PACE
QC-1	(g) 04/07/94	---	---	---	---	460	---	20	7.7	9.0	11	---	---	---	PACE
MW-3	07/06/94	---	---	---	---	300	---	10	0.6	1.7	6.4	---	---	4.8	PACE

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ALISTO PROJECT NO. 10-014

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TOG (ppb)	HVOC (ppb)	DO (ppm)	LAB
MW-4	02/05/90	40.11	20.75	0.00	19.36	620	---	ND<0.5	9	ND<0.5	10	---	---	---	SUP
MW-4	02/14/91	40.11	21.73	0.00	18.38	180	---	ND<0.3	ND<0.3	0.4	2	---	---	---	SUP
MW-4	05/13/91	40.11	18.55	0.00	21.56	72	---	0.7	ND<0.3	ND<0.3	ND<0.3	---	---	---	SUP
MW-4	07/24/91	40.11	21.31	0.00	18.80	---	---	---	---	---	---	---	---	---	---
MW-4	10/03/91	40.11	22.57	0.00	17.54	57	---	ND<0.3	ND<0.3	ND<0.3	ND<0.3	---	---	---	SUP
MW-4	10/15/91	40.11	22.88	0.00	17.23	---	---	---	---	---	---	---	---	---	---
MW-4	12/04/91	40.11	22.54	0.00	17.57	---	---	---	---	---	---	---	---	---	---
MW-4	12/16/91	40.11	22.59	0.00	17.52	---	---	---	---	---	---	---	---	---	---
MW-4	01/06/92	40.11	22.00	0.00	18.11	480	---	0.8	3.2	1.9	7.7	---	---	---	ANA
MW-4	01/22/92	40.11	21.58	0.00	18.53	---	---	---	---	---	---	---	---	---	---
MW-4	01/28/92	40.11	21.42	0.00	18.69	---	---	---	---	---	---	---	---	---	---
MW-4	02/05/92	40.11	21.10	0.00	19.01	---	---	---	---	---	---	---	---	---	---
MW-4	02/12/92	40.11	20.74	0.00	19.37	---	---	---	---	---	---	---	---	---	---
MW-4	02/17/92	40.11	19.78	0.00	20.33	---	---	---	---	---	---	---	---	---	---
MW-4	04/03/92	40.11	16.80	0.00	23.31	---	---	---	---	---	---	---	---	---	---
MW-4	04/08/92	40.11	17.13	0.00	22.98	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-4	04/14/92	40.11	17.74	0.00	22.37	---	---	---	---	---	---	---	---	---	---
MW-4	04/29/92	40.11	18.56	0.00	21.55	---	---	---	---	---	---	---	---	---	---
MW-4	05/07/92	40.11	19.10	0.00	21.01	---	---	---	---	---	---	---	---	---	---
MW-4	07/03/92	40.11	20.71	0.00	19.40	ND<50	---	0.6	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-4	10/08/92	40.11	22.43	0.00	17.68	270	---	ND<0.5	2.1	2.5	3.2	---	---	---	ANA
MW-4	12/31/92	40.11	19.58	0.00	20.53	150	---	ND<0.5	ND<0.5	ND<0.5	1.3	---	---	---	ANA
MW-4	04/21/93	40.11	17.79	0.00	22.32	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-4	07/07/93	40.11	18.44	0.00	21.67	160	---	1.2	5.4	3.8	19	---	---	---	PACE
MW-4	09/21/93	40.11	20.14	0.00	19.97	71	---	ND<0.5	1.9	ND<0.5	2.1	---	---	---	PACE
MW-4	12/17/93	40.11	19.80	---	20.31	---	---	---	---	---	---	---	---	---	---
MW-4	12/23/93	---	---	---	---	ND<50	---	3.1	1.6	0.8	3.8	---	---	---	PACE
MW-4	04/07/94	40.11	19.12	---	20.99	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	6.6	PACE
MW-4	07/06/94	40.11	19.90	---	20.21	62	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	4.1	PACE
MW-5	10/03/91	39.55	18.08	0.00	21.47	79000	---	13000	7400	1400	6200	---	---	---	SUP
MW-5	10/15/91	39.55	18.55	0.00	21.00	---	---	---	---	---	---	---	---	---	---
MW-5	12/04/91	39.55	18.44	0.13	21.21	---	---	---	---	---	---	---	---	---	---
MW-5	12/16/91	39.55	18.66	0.01	20.90	---	---	---	---	---	---	---	---	---	---
MW-5	01/06/92	39.55	19.12	0.11	20.51	---	---	---	---	---	---	---	---	---	---
MW-5	01/22/92	39.55	14.59	0.00	24.96	---	---	---	---	---	---	---	---	---	---
MW-5	01/28/92	39.55	15.25	0.00	24.30	---	---	---	---	---	---	---	---	---	---
MW-5	02/05/92	39.55	15.58	SHEEN	23.97	---	---	---	---	---	---	---	---	---	---
MW-5	02/12/92	39.55	15.54	0.01	24.02	---	---	---	---	---	---	---	---	---	---
MW-5	02/17/92	39.55	13.98	SHEEN	25.57	---	---	---	---	---	---	---	---	---	---
MW-5	04/03/92	39.55	13.83	0.04	25.95	---	---	---	---	---	---	---	---	---	---
MW-5	04/08/92	39.55	13.17	0.01	26.39	---	---	---	---	---	---	---	---	---	---
MW-5	04/14/92	39.55	13.45	0.01	26.11	---	---	---	---	---	---	---	---	---	---
MW-5	04/29/92	39.55	13.75	0.07	25.85	---	---	---	---	---	---	---	---	---	---
MW-5	05/07/92	39.55	16.15	0.04	23.43	---	---	---	---	---	---	---	---	---	---
MW-5	07/03/92	39.55	17.67	0.08	21.94	---	---	---	---	---	---	---	---	---	---
MW-5	09/01/92	39.55	17.83	0.50	22.10	---	---	---	---	---	---	---	---	---	---
MW-5	10/08/92	39.55	17.86	0.92	22.38	---	---	---	---	---	---	---	---	---	---
MW-5	12/31/92	39.55	15.20	SHEEN	24.35	---	---	---	---	---	---	---	---	---	---
MW-5	04/21/93	39.55	12.64	0.02	26.93	---	---	---	---	---	---	---	---	---	---
MW-5	07/07/93	39.14	12.68	0.82	27.08	---	---	---	---	---	---	---	---	---	---
MW-5	09/21/93	39.14	14.35	SHEEN	24.79	---	---	---	---	---	---	---	---	---	---
MW-5	12/17/93	39.14	12.61	0.41	26.84	---	---	---	---	---	---	---	---	---	---
MW-5	04/07/94	39.14	30.00	---	9.14	66000	---	3000	1700	250	6800	---	---	---	PACE
MW-5	07/06/94	---	---	---	---	29000	---	1900	330	63	2700	---	---	3.7	PACE

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MW-6	10/03/91	41.59	20.73	0.00	20.86	ND<50	---	0.7	0.8	ND<0.3	1.3	---	---	---	SUP
MW-6	10/15/91	41.59	21.20	0.00	20.39	---	---	---	---	---	---	---	---	---	---
MW-6	12/04/91	41.59	21.26	0.00	20.33	---	---	---	---	---	---	---	---	---	---
MW-6	12/16/91	41.59	21.12	0.00	20.47	---	---	---	---	---	---	---	---	---	---
MW-6	01/06/92	41.59	20.29	0.00	21.30	ND<50	---	ND<0.5	ND<0.5	ND<0.5	1.6	---	---	---	ANA
MW-6	01/22/92	41.59	20.12	0.00	21.47	---	---	---	---	---	---	---	---	---	---
MW-6	01/28/92	41.59	20.20	0.00	21.39	---	---	---	---	---	---	---	---	---	---
MW-6	02/05/92	41.59	20.09	0.00	21.50	---	---	---	---	---	---	---	---	---	---
MW-6	02/12/92	41.59	19.15	0.00	22.44	---	---	---	---	---	---	---	---	---	---
MW-6	02/17/92	41.59	18.92	0.00	23.57	---	---	---	---	---	---	---	---	---	---
MW-6	04/03/92	41.59	16.62	0.00	24.97	---	---	---	---	---	---	---	---	---	---
MW-6	04/08/92	41.59	17.06	0.00	24.53	ND<50	---	0.6	ND<0.5	0.8	ND<0.5	---	---	---	ANA
MW-6	04/14/92	41.59	17.23	0.00	24.36	---	---	---	---	---	---	---	---	---	---
MW-6	04/29/92	41.59	18.12	0.00	23.47	---	---	---	---	---	---	---	---	---	---
MW-6	05/07/92	41.59	18.52	0.00	23.07	---	---	---	---	---	---	---	---	---	---
MW-6	07/03/92	41.59	19.71	0.00	21.88	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-6	10/08/92	41.59	21.22	0.00	20.37	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
QC-1	(g) 10/08/92	41.59	21.22	0.00	20.37	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-6	12/31/92	41.59	21.33	0.00	20.26	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-6	04/21/93	41.59	16.45	0.00	25.14	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-6	07/07/93	41.59	18.68	0.00	22.91	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-6	09/21/93	41.59	19.64	0.00	21.95	ND<50	---	ND<0.5	ND<0.5	ND<0.5	1.6	---	---	---	PACE
MW-6	12/17/93	41.59	21.08	---	20.51	---	---	---	---	---	---	---	---	---	---
MW-6	12/23/93	---	---	---	---	ND<50	---	ND<0.5	0.5	ND<0.5	0.6	---	---	---	PACE
MW-6	04/07/94	41.59	21.27	---	20.32	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	6.1	PACE
MW-6	07/06/94	41.59	19.81	---	21.78	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	4.0	PACE
QC-1	07/06/94	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-7	10/03/91	40.64	14.93	0.00	25.71	380	---	62	13	3.4	20	---	---	---	SUP
MW-7	10/15/91	40.64	15.16	0.00	25.48	---	---	---	---	---	---	---	---	---	---
MW-7	12/04/91	40.64	15.41	0.00	25.23	---	---	---	---	---	---	---	---	---	---
MW-7	12/16/91	40.64	15.21	0.00	25.43	---	---	---	---	---	---	---	---	---	---
MW-7	01/06/92	40.64	14.56	0.00	26.08	1100	---	170	ND<0.5	24	23	---	---	---	ANA
MW-7	01/22/92	40.64	14.63	0.00	26.01	---	---	---	---	---	---	---	---	---	---
MW-7	01/28/92	40.64	14.73	0.00	25.91	---	---	---	---	---	---	---	---	---	---
MW-7	02/05/92	40.64	14.58	0.00	26.06	---	---	---	---	---	---	---	---	---	---
MW-7	02/12/92	40.64	13.94	0.00	26.70	---	---	---	---	---	---	---	---	---	---
MW-7	02/17/92	40.64	13.10	0.00	27.54	---	---	---	---	---	---	---	---	---	---
MW-7	04/03/92	40.64	12.66	0.00	27.98	---	---	---	---	---	---	---	---	---	---
MW-7	04/08/92	40.64	12.77	0.00	27.87	750	---	150	ND<0.5	23	9.9	---	---	---	ANA
MW-7	04/14/92	40.64	13.02	0.00	27.62	---	---	---	---	---	---	---	---	---	---
MW-7	04/29/92	40.64	13.59	0.00	27.05	---	---	---	---	---	---	---	---	---	---
MW-7	05/07/92	40.64	13.95	0.00	26.69	---	---	---	---	---	---	---	---	---	---
MW-7	07/03/92	40.64	14.73	0.00	25.91	660	---	210	ND<2.5	33	8	---	---	---	ANA
MW-7	10/08/92	40.64	15.75	0.00	24.89	320	---	49	1.4	13	6.2	---	---	---	ANA
MW-7	12/31/92	40.64	13.57	0.00	27.07	900	---	100	ND<2.5	28	4.3	---	---	---	ANA
MW-7	04/21/93	40.64	14.56	0.00	28.08	510	---	83	1.2	10	5.8	---	---	---	PACE
MW-7	07/07/93	40.32	(h) 13.40	0.00	26.92	1100	---	160	2.0	27	4.0	---	---	---	PACE
QC-1	(g) 07/07/93	---	---	---	---	1100	---	170	1.9	29	2.8	---	---	---	PACE
MW-7	09/21/93	40.32	14.40	0.00	25.92	690	---	150	3.1	26	5.7	---	---	---	PACE
QC-1	(g) 09/21/93	---	---	---	---	640	---	140	1.7	23	2.4	---	---	---	PACE
MW-7	12/17/93	40.32	13.65	---	26.67	---	---	---	---	---	---	---	---	---	---
MW-7	12/23/93	---	---	---	---	250	---	64	1.2	9.0	1.8	---	---	---	PACE
MW-7	04/07/94	40.32	30.62	---	9.70	140	---	32	1.4	ND<0.5	ND<0.5	---	---	---	PACE
MW-7	07/06/94	40.32	16.88	---	23.44	410	---	94	1.3	10	3.5	---	---	4.4	PACE

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11109  
 4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TOG (ppb)	HVOC (ppb)	DO (ppm)	LAB
MW-8	10/03/91	38.18	22.37	0.00	15.81	ND<50	---	ND<0.3	0.6	ND<0.3	0.9	---	---	---	SUP
MW-8	10/15/91	38.18	22.70	0.00	15.48	---	---	---	---	---	---	---	---	---	---
MW-8	12/04/91	38.18	22.44	0.00	15.74	---	---	---	---	---	---	---	---	---	---
MW-8	12/16/91	38.18	22.47	0.00	15.71	---	---	---	---	---	---	---	---	---	---
MW-8	01/06/92	38.18	21.94	0.00	16.24	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-8	01/22/92	38.18	21.44	0.00	16.74	---	---	---	---	---	---	---	---	---	---
MW-8	01/28/92	38.18	21.20	0.00	16.98	---	---	---	---	---	---	---	---	---	---
MW-8	02/05/92	38.18	20.88	0.00	17.30	---	---	---	---	---	---	---	---	---	---
MW-8	02/12/92	38.18	20.54	0.00	17.64	---	---	---	---	---	---	---	---	---	---
MW-8	02/17/92	38.18	19.99	0.00	18.19	---	---	---	---	---	---	---	---	---	---
MW-8	04/03/92	38.18	16.75	0.00	21.43	---	---	---	---	---	---	---	---	---	---
MW-8	04/08/92	38.18	16.57	0.00	21.61	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-8	04/14/92	38.18	INACCESSIBLE	---	---	---	---	---	---	---	---	---	---	---	---
MW-8	04/29/92	38.18	18.61	0.00	19.57	---	---	---	---	---	---	---	---	---	---
MW-8	05/07/92	38.18	18.41	0.00	19.77	---	---	---	---	---	---	---	---	---	---
MW-8	07/03/92	38.18	20.35	0.00	17.83	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-8	10/08/92	38.18	21.74	0.00	16.44	---	---	---	---	---	---	---	---	---	---
MW-8	(i) 12/31/92	38.18	19.09	0.00	19.09	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-8	04/21/93	38.18	18.92	0.00	19.26	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-8	07/07/93	38.18	17.76	0.00	20.42	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-8	09/21/93	38.18	19.71	0.00	18.47	ND<50	---	2.9	2.2	2.2	7.1	---	---	---	PACE
MW-8	12/17/93	38.18	21.33	---	16.85	---	---	---	---	---	---	---	---	---	---
MW-8	12/23/93	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.6	---	---	---	PACE
MW-8	04/07/94	38.18	21.51	---	16.67	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	6.6	PACE
MW-8	07/06/94	38.18	17.41	---	20.77	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	4.4	PACE
MW-9	10/03/91	41.25	14.12	0.00	27.13	ND<50	---	ND<0.3	0.4	ND<0.3	ND<0.3	---	---	---	SUP
MW-9	10/15/91	41.25	14.27	0.00	26.98	---	---	---	---	---	---	---	---	---	---
MW-9	12/04/91	41.25	13.84	0.00	27.41	---	---	---	---	---	---	---	---	---	---
MW-9	12/16/91	41.25	14.18	0.00	27.07	---	---	---	---	---	---	---	---	---	---
MW-9	01/06/92	41.25	13.42	0.00	27.83	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.9	---	---	---	ANA
MW-9	01/22/92	41.25	13.75	0.00	27.50	---	---	---	---	---	---	---	---	---	---
MW-9	01/28/92	41.25	14.76	0.00	26.49	---	---	---	---	---	---	---	---	---	---
MW-9	02/05/92	41.25	13.38	0.00	27.87	---	---	---	---	---	---	---	---	---	---
MW-9	02/12/92	41.25	11.86	0.00	29.39	---	---	---	---	---	---	---	---	---	---
MW-9	02/17/92	41.25	10.78	0.00	30.47	---	---	---	---	---	---	---	---	---	---
MW-9	04/03/92	41.25	11.63	0.00	29.62	---	---	---	---	---	---	---	---	---	---
MW-9	04/08/92	41.25	12.25	0.00	29.00	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-9	04/14/92	41.25	12.32	0.00	28.93	---	---	---	---	---	---	---	---	---	---
MW-9	04/29/92	41.25	13.07	0.00	28.18	---	---	---	---	---	---	---	---	---	---
MW-9	05/07/92	41.25	14.43	0.00	26.82	---	---	---	---	---	---	---	---	---	---
MW-9	07/03/92	41.25	13.85	0.00	27.40	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-9	10/08/92	41.25	14.89	0.00	26.36	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-9	12/31/92	41.25	11.90	0.00	29.35	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
MW-9	04/21/93	41.25	13.68	0.00	27.57	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-9	07/07/93	41.25	13.12	0.00	28.13	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-9	09/21/93	41.25	14.00	0.00	27.25	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-9	12/17/93	41.25	12.98	---	28.27	---	---	---	---	---	---	---	---	---	---
MW-9	12/23/93	---	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.9	---	---	---	PACE
MW-9	04/07/94	41.25	13.24	---	28.01	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	4.7	PACE
MW-9	07/06/94	41.25	13.77	---	27.48	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	3.9	PACE



TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING  
 BP OIL COMPANY SERVICE STATION NO. 11109  
 4280 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-014

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ppb)	TPH-D (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	TOG (ppb)	HVOC (ppb)	DO (ppm)	LAB
QC-2	(i)	10/08/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
QC-2	(i)	12/31/92	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	ANA
QC-2	(i)	04/21/93	---	---	---	---	---	---	---	---	---	---	ND	---	PACE
QC-2	(i)	07/07/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	0.6	---	---	---	PACE
QC-2	(i)	09/21/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2	(i)	12/23/93	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2	(i)	04/07/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2	(i)	07/06/94	---	---	---	ND<50	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE

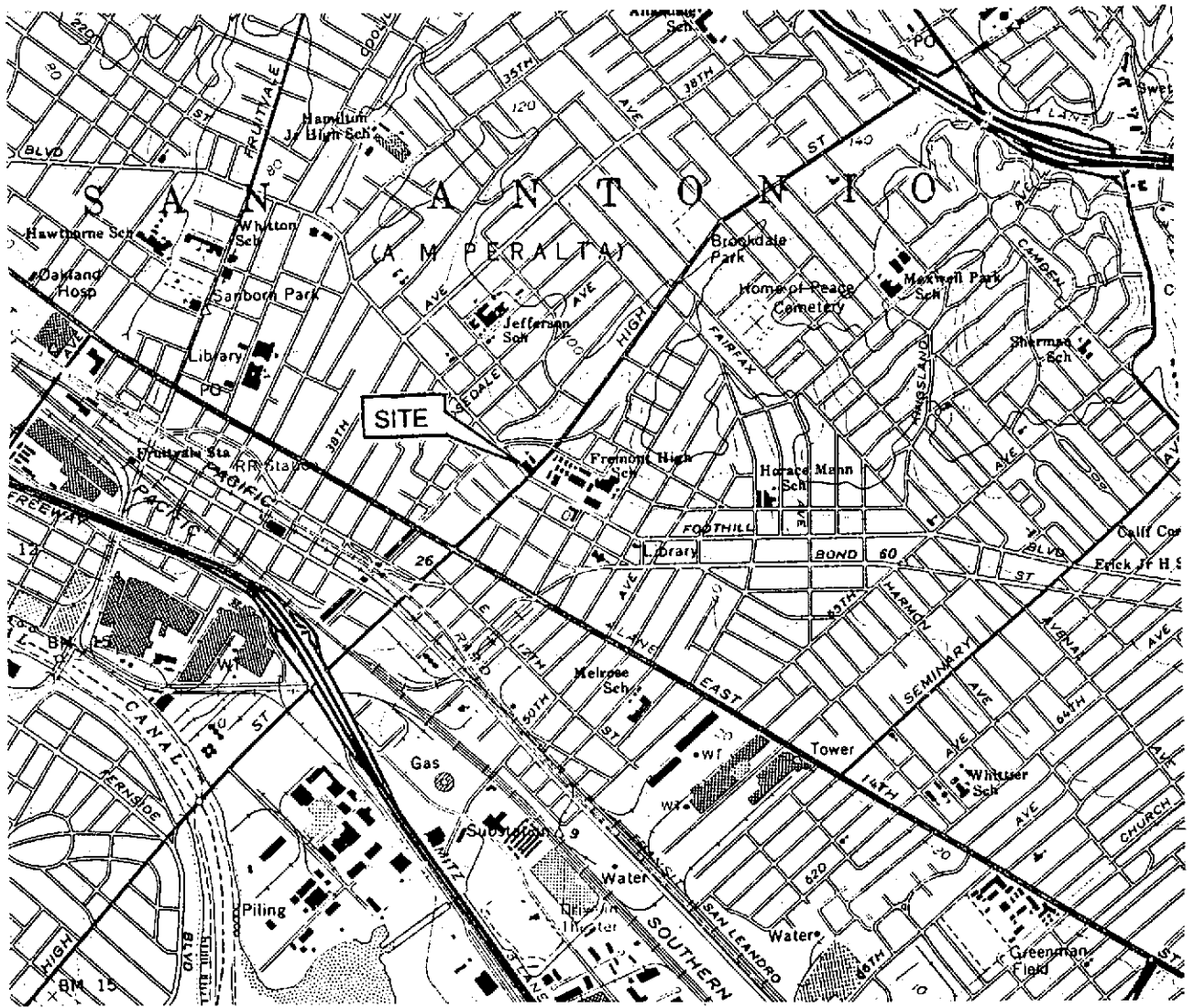
ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline  
 TPH-D Total petroleum hydrocarbons as diesel  
 B Benzene  
 T Toluene  
 E Ethylbenzene  
 X Total xylenes  
 TOG Total oil and grease  
 HVOC Halogenated volatile organic compounds  
 DO Dissolved oxygen  
 ppb Parts per billion  
 ppm Parts per million  
 --- Not analyzed/measured/applicable  
 ND Not detected above reported detection limit  
 SUP Superior Analytical Laboratory  
 ANA Anametrix, Inc.  
 PACE Pace, Inc.

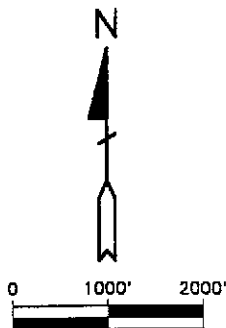
NOTES:

(a) Top of casing elevations surveyed relative to the NGVD (1929) in feet above mean sea level.  
 (b) Groundwater elevations adjusted assuming a specific gravity of 0.75 for free product.  
 (c) Well destroyed during tank removal in November 1990.  
 (d) Methylene chloride.  
 (e) 1,2-Dichloroethane.  
 (f) Sample collected from MW-2 for TPH-D analysis received in laboratory 7 days after collected; sample exceeded EPA recommended holding time for TPH-D on a water matrix.  
 (g) Blind duplicate.  
 (h) Top of casing lowered.  
 (i) Not sampled due to abandoned vehicle parked over well.  
 (j) Travel blank.

E:\0010-014-3-1



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



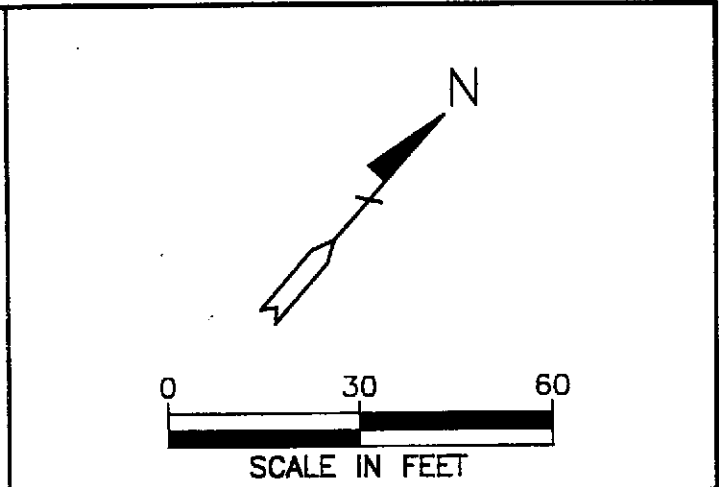
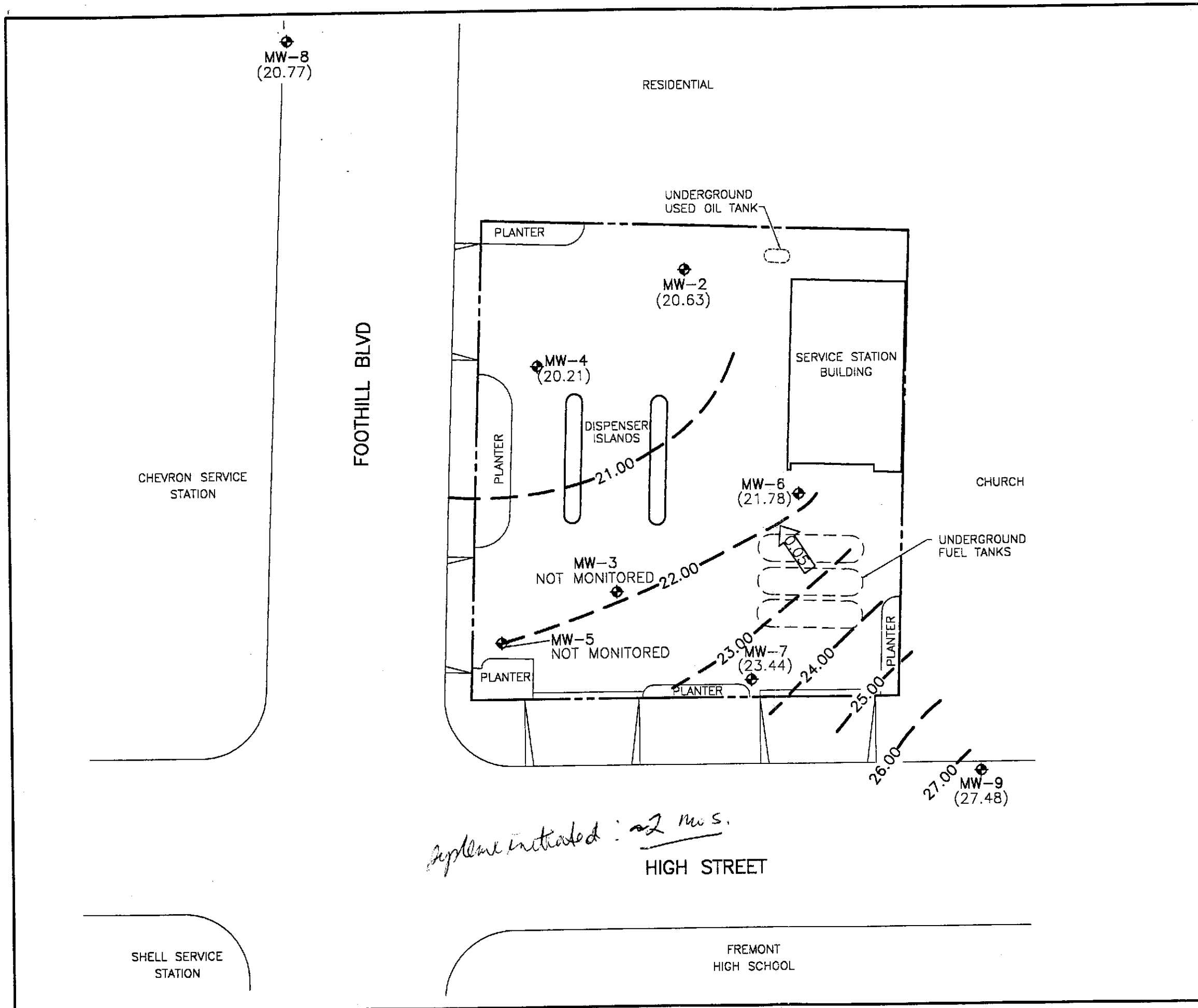
**FIGURE 1**

**SITE VICINITY MAP**

BP OIL SERVICE STATION NO. 11109  
 4280 FOOTHILL BOULEVARD  
 OAKLAND, CALIFORNIA  
 PROJECT NO. 10-014



**ALISTO ENGINEERING GROUP**  
 WALNUT CREEK, CALIFORNIA



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

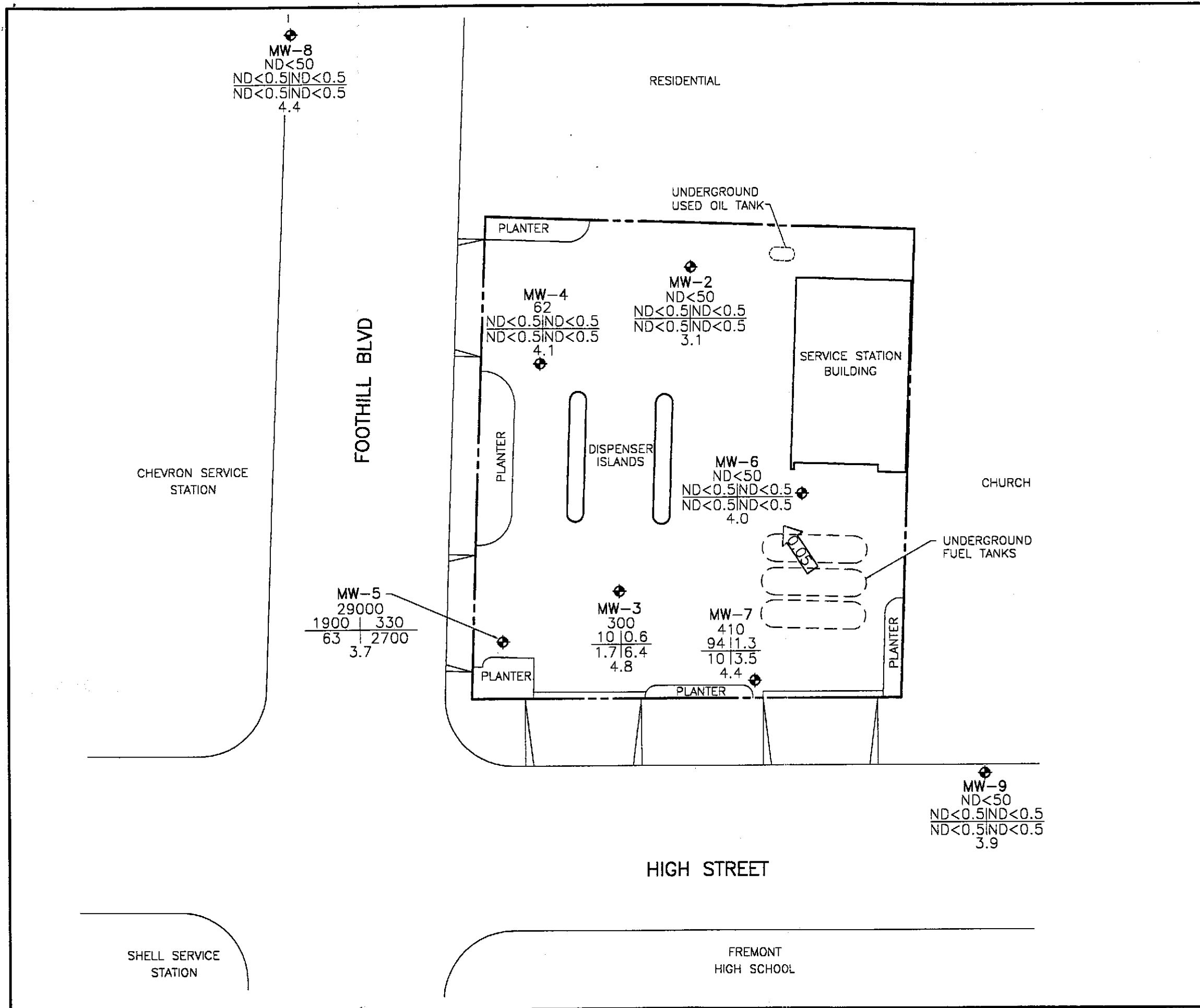
**FIGURE 2**

**POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP**

**JULY 6, 1994**

BP OIL SERVICE STATION NO. 11109  
 4280 FOOTHILL BOULEVARD  
 OAKLAND, CALIFORNIA

PROJECT NO. 10-014



**LEGEND**

- ◆ GROUNDWATER MONITORING WELL
- TPH-G CONCENTRATION OF CONSTITUENTS IN PARTS PER BILLION, EXCEPT DISSOLVED OXYGEN, WHICH IS IN PARTS PER MILLION
- B | T BENZENE | TOLUENE
- E | X ETHYLBENZENE | TOTAL XYLENES
- DO DISSOLVED OXYGEN
- ND 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**  
**JULY 6, 1994**  
 BP OIL SERVICE STATION NO. 11109  
 4280 FOOTHILL BOULEVARD  
 OAKLAND, CALIFORNIA  
 PROJECT NO. 10-014

10014E-K.DWG 7-28-84 RW 1-30

**APPENDIX A**

**WATER SAMPLING FIELD SURVEY FORMS**

# ALISTO

## Field Report / Sampling Data Sheet

ENGINEERING

Groundwater Sampling

Date: 7/6/94

Project No. 10-014-03-001

GROUP

Day: Tue

Station No. 11109

1777 OAKLAND BLVD, STE 200

Weather: Sunny

Address Foothill Blvd, OAKLAND

WALNUT CREEK CA 94596 (510) 295-1650 FAX 295-1823

SAMPLER: DOC

Well ID	SAMPLE #	WATER DEPTH	Well ID	SAMPLE #	WATER DEPTH	Well ID	SAMPLE	WATER DEPTH
MW-8	S-1	17.41	MW-7	S-6	16.88			
MW-9	S-2	13.77	MW-3	S-7				
MW-2	S-3	20.59	MW-5	S-8				
MW-4	S-4	19.90						
MW-6	S-5	19.81						

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW-8	17.41	2"	OK	Φ	Φ	1	1306	68.3	6.99	0.57	4.8	<input type="checkbox"/> EPA 601
Total Depth - Water Level = $21.74 - 17.41 = 4.33$ x Well Vol. Factor = $.16$ x #vol. to Purge = $3$ = PurgeVol. $2.08$						2	1311	67.3	7.21	0.51		<input checked="" type="checkbox"/> TPH-G/BTEX HCL
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input checked="" type="checkbox"/> Disp. Bailer(s) <input type="checkbox"/> OSys Port						2.25	1314	67.1	7.07	0.50	4.4	<input type="checkbox"/> TPH Diesel
Comments:												<input type="checkbox"/> TOG 5520
												Time Sampled
												1316

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW-9	13.77	2"	replaced	Φ	Φ	2.5	1334	71.5	6.93	0.63	3.2	<input type="checkbox"/> EPA 601
Total Depth - Water Level = $29.31 - 13.77 = 15.54$ x Well Vol. Factor = $.16$ x #vol. to Purge = $3$ = PurgeVol. $7.46$						5	1338	71.3	6.85	0.70		<input checked="" type="checkbox"/> TPH-G/BTEX HCL
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input checked="" type="checkbox"/> Disp. Bailer(s) <input type="checkbox"/> OSys Port						7.5	1344	71.4	6.97	0.75	3.9	<input type="checkbox"/> TPH Diesel
Comments:												<input type="checkbox"/> TOG 5520
												Time Sampled
												1350

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW-2	20.59	2"	replaced	Φ	Φ	1.5	1409	72.5	6.83	1.29	3.1	<input type="checkbox"/> EPA 601
Total Depth - Water Level = $30.10 - 20.59 = 9.51$ x Well Vol. Factor = $.16$ x #vol. to Purge = $3$ = PurgeVol. $4.57$						3	1414	70.7	6.70	1.14		<input checked="" type="checkbox"/> TPH-G/BTEX HCL
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input checked="" type="checkbox"/> Disp. Bailer(s) <input type="checkbox"/> OSys Port						4.75	1418	68.8	6.71	1.07	3.1	<input type="checkbox"/> TPH Diesel
Comments: <u>Christine But needs to be replaced</u>												<input type="checkbox"/> TOG 5520
												Time Sampled
												1425

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
MW-4	19.90	4"	replaced	Φ	Φ	10	1500	71.7	6.64	0.67	3.4	<input type="checkbox"/> EPA 601
Total Depth - Water Level = $34.28 - 19.90 = 14.38$ x Well Vol. Factor = $.16$ x #vol. to Purge = $3$ = PurgeVol. $28.04$						12.25	1507	71.3	6.69	0.65		<input checked="" type="checkbox"/> TPH-G/BTEX HCL
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input checked="" type="checkbox"/> Disp. Bailer(s) <input type="checkbox"/> OSys Port						15.25	1510	70.7	6.75	0.65	4.1	<input type="checkbox"/> TPH Diesel
Comments: <u>Well doing dry @ 12 gals/day @ 13</u>												<input type="checkbox"/> TOG 5520
1st reloaded & sampled												Time Sampled
												1515

6/20/94

# ALISTO

## Field Report / Sampling Data Sheet

ENGINEERING

Groundwater Sampling

Date: 7/6/94 Project No. 10-014-03-001

GROUP

Day: Thu Station No. 11109

1777 OAKLAND BLVD, STE 200

Weather: Sunny Address Footmill Blvd OAKland

WALNUT CREEK CA 94596 (510) 295-1650 FAX 295-1823

SAMPLER: DC

Well ID	SAMPLE #	WATER	DEPTH	Well ID	SAMPLE #	WATER	DEPTH	Well ID	SAMPLE	WATER DEPTH
<u>6</u>										

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
<u>MW-6</u>	<u>19.81</u>	<u>4"</u>	<u>replaced</u>	<u>Ø</u>	<u>Ø</u>	<u>10</u>	<u>1545</u>	<u>71.6</u>	<u>6.78</u>	<u>0.96</u>	<u>4.0</u>	<input type="checkbox"/> EPA 601
Total Depth - Water Level = <u>34.28 - 19.81 = 14.47</u>						<u>20</u>	<u>1550</u>	<u>69.2</u>	<u>6.73</u>	<u>0.84</u>		<input checked="" type="checkbox"/> TPH-G/BTEX <u>HCL</u>
x Well Vol. Factor = <u>14.47 x .65 = 9.41</u>						<u>28.25</u>	<u>1610</u>	<u>69.4</u>	<u>6.75</u>	<u>0.87</u>	<u>4.0</u>	<input type="checkbox"/> TPH Diesel
x #vol. to Purge = <u>9.41 x 3 = 28.22</u>												<input type="checkbox"/> TOG 5520
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input checked="" type="checkbox"/> Disp. Bailer(s) <input type="checkbox"/> Sys Port												Time Sampled
Comments: <u>Q1-1 will be 5-9(100) Q1-2 will be 5-10</u>												<u>1615</u>

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
<u>MW-7</u>	<u>16.80</u>	<u>6"</u>	<u>OK</u>	<u>Ø</u>	<u>Ø</u>	<u>-</u>	<u>1635</u>	<u>73.7</u>	<u>7.29</u>	<u>0.79</u>	<u>4.4</u>	<input type="checkbox"/> EPA 601
Total Depth - Water Level = <u>33.48</u>												<input checked="" type="checkbox"/> TPH-G/BTEX <u>HCL</u>
x Well Vol. Factor = <u>Sampled @ port</u>												<input type="checkbox"/> TPH Diesel
x #vol. to Purge = <u>Sampled @ port</u>												<input type="checkbox"/> TOG 5520
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailer(s) <input checked="" type="checkbox"/> Sys Port												Time Sampled
Comments:												<u>1640</u>

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
<u>MW-3</u>	<u>-</u>	<u>4"</u>	<u>OK</u>	<u>Ø</u>	<u>Ø</u>	<u>-</u>	<u>1640</u>	<u>73.6</u>	<u>6.77</u>	<u>1.27</u>	<u>4.8</u>	<input type="checkbox"/> EPA 601
Total Depth - Water Level = <u>31.80</u>												<input checked="" type="checkbox"/> TPH-G/BTEX <u>HCL</u>
x Well Vol. Factor = <u>Sampled @ port</u>												<input type="checkbox"/> TPH Diesel
x #vol. to Purge = <u>Sampled @ port</u>												<input type="checkbox"/> TOG 5520
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailer(s) <input checked="" type="checkbox"/> Sys Port												Time Sampled
Comments: <u>Could not register DTW reading (probe worked)</u>												<u>1644</u>

Well ID	Depth to Water	Diam	Cap/Lock	Product Depth	Thickness	Gal.	Time	Temp *F	pH	E.C.	D.O.	
<u>MW-5</u>	<u>-</u>	<u>4"</u>	<u>OK</u>	<u>Ø</u>	<u>Ø</u>	<u>-</u>	<u>1650</u>	<u>73.5</u>	<u>6.97</u>	<u>1.04</u>	<u>3.7</u>	<input type="checkbox"/> EPA 601
Total Depth - Water Level = <u>Nim</u>												<input checked="" type="checkbox"/> TPH-G/BTEX <u>HCL</u>
x Well Vol. Factor = <u>Sampled @ port</u>												<input type="checkbox"/> TPH Diesel
x #vol. to Purge = <u>Sampled @ port</u>												<input type="checkbox"/> TOG 5520
Purge Method: <input type="checkbox"/> Surface Pump <input type="checkbox"/> Disp. Tube <input type="checkbox"/> Winch <input type="checkbox"/> Disp. Bailer(s) <input checked="" type="checkbox"/> Sys Port												Time Sampled
Comments: <u>Could not register probe reading</u>												<u>1655</u>

(water was in well box) PAGE 2 of 2

6/20/94

**APPENDIX B**

**LABORATORY REPORT AND CHAIN OF CUSTODY RECORD**





# REPORT OF LABORATORY ANALYSIS

Alisto Engineering Group  
1777 Oakland Blvd., Ste. 200  
Walnut Creek, CA 94596

July 19, 1994  
PACE Project Number: 440711507

Attn: Mr. Bill Howell

Client Reference: BP Site #11109

PACE Sample Number:  
Date Collected:  
Date Received:  
Client Sample ID:  
Parameter

70 0353173  
07/06/94  
07/11/94  
S-1

Units                      MDL                      DATE ANALYZED

## ORGANIC ANALYSIS

### PURGEABLE FUELS AND AROMATICS

#### TOTAL FUEL HYDROCARBONS, (LIGHT):

Purgeable Fuels, as Gasoline (EPA 8015M) ug/L

50

-  
ND

07/12/94  
07/12/94

#### PURGEABLE AROMATICS (BTXE BY EPA 8020M):

Benzene ug/L

0.5

ND

07/12/94

Toluene ug/L

0.5

ND

07/12/94

Ethylbenzene ug/L

0.5

ND

07/12/94

Xylenes, Total

ug/L

0.5

ND

07/12/94

**REPORT OF LABORATORY ANALYSIS**

Mr. Bill Howell  
 Page 2

July 19, 1994  
 PACE Project Number: 440711507

Client Reference: BP Site #11109

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:  
 Parameter

70 0353181  
 07/06/94  
 07/11/94  
 S-2

Units                      MDL                      DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	07/12/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	07/12/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	07/12/94
Benzene	ug/L	0.5	ND	07/12/94
Toluene	ug/L	0.5	ND	07/12/94
Ethylbenzene	ug/L	0.5	ND	07/12/94
Xylenes, Total	ug/L	0.5	ND	07/12/94

**REPORT OF LABORATORY ANALYSIS**

Mr. Bill Howell  
 Page 3

July 19, 1994  
 PACE Project Number: 440711507

Client Reference: BP Site #11109

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:  
 Parameter

70 0353190  
 07/06/94  
 07/11/94  
 S-3

Units                      MDL                      DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	07/12/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	07/12/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	07/12/94
Benzene	ug/L	0.5	ND	07/12/94
Toluene	ug/L	0.5	ND	07/12/94
Ethylbenzene	ug/L	0.5	ND	07/12/94
Xylenes, Total	ug/L	0.5	ND	07/12/94

**REPORT OF LABORATORY ANALYSIS**

Mr. Bill Howell  
 Page 4

July 19, 1994  
 PACE Project Number: 440711507

Client Reference: BP Site #11109

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:  
 Parameter

70 0353203  
 07/06/94  
 07/11/94  
 S-4

Units                      MDL                      DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	07/12/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	62	07/12/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	07/12/94
Benzene	ug/L	0.5	ND	07/12/94
Toluene	ug/L	0.5	ND	07/12/94
Ethylbenzene	ug/L	0.5	ND	07/12/94
Xylenes, Total	ug/L	0.5	ND	07/12/94

**REPORT OF LABORATORY ANALYSIS**

Mr. Bill Howell  
 Page 5

July 19, 1994  
 PACE Project Number: 440711507

Client Reference: BP Site #11109

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:  
 Parameter

70 0353211  
 07/06/94  
 07/11/94  
 S-5

Units                      MDL                      DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):				
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	-	07/12/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):				
Benzene	ug/L	0.5	ND	07/12/94
Toluene	ug/L	0.5	ND	07/12/94
Ethylbenzene	ug/L	0.5	ND	07/12/94
Xylenes, Total				
	ug/L	0.5	ND	07/12/94

Mr. Bill Howell  
 Page 6

July 19, 1994  
 PACE Project Number: 440711507

Client Reference: BP Site #11109

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:  
 Parameter

70 0353220  
 07/06/94  
 07/11/94  
 S-6

Units                      MDL                      DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):				
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	-	07/12/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):				
Benzene	ug/L	0.5	94	07/12/94
Toluene	ug/L	0.5	1.3	07/12/94
Ethylbenzene	ug/L	0.5	10	07/12/94
Xylenes, Total	ug/L	0.5	3.5	07/12/94

**REPORT OF LABORATORY ANALYSIS**

Mr. Bill Howell  
 Page 7

July 19, 1994  
 PACE Project Number: 440711507

Client Reference: BP Site #11109

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:  
 Parameter

70 0353238  
 07/06/94  
 07/11/94  
 S-7

Units                      MDL                      DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):				
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	300	07/12/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):				
Benzene	ug/L	0.5	10	07/12/94
Toluene	ug/L	0.5	0.6	07/12/94
Ethylbenzene	ug/L	0.5	1.7	07/12/94
Xylenes, Total	ug/L	0.5	6.4	07/12/94

**REPORT OF LABORATORY ANALYSIS**

Mr. Bill Howell  
 Page 8

July 19, 1994  
 PACE Project Number: 440711507

Client Reference: BP Site #11109

PACE Sample Number:			70 0353246	
Date Collected:			07/06/94	
Date Received:			07/11/94	
Client Sample ID:			S-8	
<u>Parameter</u>	<u>Units</u>	<u>MDL</u>		<u>DATE ANALYZED</u>

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):				
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	5000	-	07/13/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):				
Benzene	ug/L	50	1900	07/13/94
Toluene	ug/L	50	330	07/13/94
Ethylbenzene	ug/L	50	63	07/13/94
Xylenes, Total	ug/L	50	2700	07/13/94



**REPORT OF LABORATORY ANALYSIS**

Mr. Bill Howell  
 Page 9

July 19, 1994  
 PACE Project Number: 440711507

Client Reference: BP Site #11109

PACE Sample Number:  
 Date Collected:  
 Date Received:  
 Client Sample ID:  
 Parameter

70 0353254  
 07/06/94  
 07/11/94  
 S-9

Units                      MDL                      DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):				
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	07/12/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):				
Benzene	ug/L	0.5	ND	07/12/94
Toluene	ug/L	0.5	ND	07/12/94
Ethylbenzene	ug/L	0.5	ND	07/12/94
Xylenes, Total	ug/L	0.5	ND	07/12/94



# REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell  
Page 11

FOOTNOTES  
for pages 1 through 10

July 19, 1994  
PACE Project Number: 440711507

Client Reference: BP Site #11109

MDL Method Detection Limit  
ND Not detected at or above the MDL.

**REPORT OF LABORATORY ANALYSIS**

Mr. Bill Howell  
 Page 12

QUALITY CONTROL DATA

July 19, 1994  
 PACE Project Number: 440711507

Client Reference: BP Site #11109

**PURGEABLE FUELS AND AROMATICS**

Batch: 70 31957

Samples: 70 0353203, 70 0353211, 70 0353220, 70 0353238, 70 0353254  
 70 0353262

**METHOD BLANK:**

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

**SPIKE AND SPIKE DUPLICATE:**

Parameter	Units	MDL	700351421	Spike	Spike Recv	Spike Dupl Recv	RPD
Benzene	ug/L	0.5	ND	100	89%	91%	2%
Toluene	ug/L	0.5	ND	100	94%	95%	1%
Ethylbenzene	ug/L	0.5	ND	100	101%	101%	0%
Xylenes, Total	ug/L	0.5	ND	300	104%	103%	1%

**LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:**

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Benzene	ug/L	0.5	100	100%	99%	1%
Toluene	ug/L	0.5	100	100%	99%	1%
Ethylbenzene	ug/L	0.5	100	99%	97%	2%
Xylenes, Total	ug/L	0.5	300	101%	99%	2%

**REPORT OF LABORATORY ANALYSIS**

Mr. Bill Howell  
Page 13

QUALITY CONTROL DATA

July 19, 1994  
PACE Project Number: 440711507

Client Reference: BP Site #11109

**PURGEABLE FUELS AND AROMATICS**

Batch: 70 31979  
Samples: 70 0353173, 70 0353181, 70 0353190

**METHOD BLANK:**

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

**SPIKE AND SPIKE DUPLICATE:**

Parameter	Units	MDL	700353181		Spike		RPD
			S-2	Spike	Recv	Dupl Recv	
Benzene	ug/L	0.5	ND	100	94%	88%	7%
Toluene	ug/L	0.5	ND	100	100%	91%	9%
Ethylbenzene	ug/L	0.5	ND	100	101%	88%	14%
Xylenes, Total	ug/L	0.5	ND	300	97%	84%	14%

**LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:**

Parameter	Units	MDL	Reference	Dupl		RPD
			Value	Recv	Recv	
Benzene	ug/L	0.5	100	95%	96%	1%
Toluene	ug/L	0.5	100	100%	102%	2%
Ethylbenzene	ug/L	0.5	100	102%	103%	1%
Xylenes, Total	ug/L	0.5	300	98%	99%	1%

**REPORT OF LABORATORY ANALYSIS**

Mr. Bill Howell  
Page 14

QUALITY CONTROL DATA

July 19, 1994  
PACE Project Number: 440711507

Client Reference: BP Site #11109

PURGEABLE FUELS AND AROMATICS  
Batch: 70 32014  
Samples: 70 0353246

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700351421	Spike	Spike Recv	Spike Dupl Recv	RPD
Benzene	ug/L	0.5	ND	100	89%	91%	2%
Toluene	ug/L	0.5	ND	100	94%	95%	1%
Ethylbenzene	ug/L	0.5	ND	100	101%	101%	0%
Xylenes, Total	ug/L	0.5	ND	300	104%	103%	1%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Benzene	ug/L	0.5	100	100%	99%	1%
Toluene	ug/L	0.5	100	100%	99%	1%
Ethylbenzene	ug/L	0.5	100	99%	97%	2%
Xylenes, Total	ug/L	0.5	300	101%	99%	2%

Mr. Bill Howell  
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FOOTNOTES  
for pages 12 through 14

July 19, 1994  
PACE Project Number: 440711507

Client Reference: BP Site #11109

MDL Method Detection Limit  
ND Not detected at or above the MDL.  
RPD Relative Percent Difference



440711.507

### CHAIN OF CUSTODY

No.053027

Page 1 of 1

CONSULTANT'S NAME <i>Aristo Engineering</i>		ADDRESS <i>1777 Oakland Blvd Ste 200 Walnut Cr</i>		CITY <i>CA</i>	STATE <i>CA</i>	ZIP CODE <i>94596</i>
BP SITE NUMBER <i>11109</i>	BP CORNER ADDRESS/CITY <i>Foothill Blvd ; Oakland, CA</i>			CONSULTANT PROJECT NUMBER <i>10-011-03-001</i>		
CONSULTANT PROJECT MANAGER <i>Bill Howell</i>		PHONE NUMBER <i>(510) 295-1690</i>	FAX NUMBER <i>(510) 295 1823</i>		CONSULTANT CONTRACT NUMBER	
BP CONTACT <i>Scott Houston</i>	BP ADDRESS <i>Renton WA</i>		PHONE NUMBER		FAX NO.	
LAB CONTACT <i>Pace, Inc.</i>	LABORATORY ADDRESS <i>Novato CA</i>		PHONE NUMBER <i>(415) 883 6100</i>		FAX NO. <i>415 883 2673</i>	
SAMPLED BY (Please Print Name) <i>David Wsack</i>		SAMPLED BY (Signature) <i>David Wsack</i>		SHIPMENT DATE		SHIPMENT METHOD <i>Courier</i>

TAT:  24 Hours  48 Hours  1 Week  Standard 2 Weeks

ANALYSIS REQUIRED

AIRBILL NUMBER

SAMPLE DESCRIPTION	COLLECTION DATE	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	HCL TPT GMS BEX	COMMENTS
	COLLECTION TIME		NO.	TYPE (VOL.)	LAB SAMPLE #		
S-1	1316	Water	3	WA	35317.3	X	
S-2	1350				35318.1		
S-3	1425				35319.0		
S-4	1515				35320.3		
S-5	1615				35321.1		
S-6	1640				35322.0		
S-7	1644				35323.8		
S-8	1655				35324.6		
S-9	1700		1		35325.4		
S-10	1705		2		35326.2		

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	ADDITIONAL COMMENTS
<i>David Wsack Aristo</i>	<i>7/16/94</i>	<i>1420</i>	<i>Ed Kelly - Pace</i>	<i>7/11/94</i>	<i>1420</i>	<i>10/5</i>
<i>Ed Kelly Pace</i>	<i>7/11/94</i>	<i>1600</i>	<i>D. Wsack</i>	<i>7/11/94</i>	<i>1600</i>	

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

July 27, 1993  
StID # 102

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
80 Swan Way, Rm 200  
Oakland, CA 94621  
(510) 271-4530

Mr. Scott Hooten  
B.P. Oil Company  
Environmental Resource Management  
16400 Southcenter Parkway, Suite 301  
Tukwila, Washington 98188

Re: Comment on July 14, 1993 Quarterly Monitoring Report for  
BP Station # 11109, 4280 Foothill Blvd., Oakland 94601

Dear Mr. Hooten:

Our office has received and reviewed the above referenced quarterly monitoring report as prepared by your consultant Alisto Engineering Group. We have the following comments and requests:

1. Please provide the status of your proposed groundwater treatment system on each quarterly monitoring report as stated in your 2/2/93 letter. There was no information in this regard in the above referenced monitoring report.
2. Please give the status of the free product recovery from monitoring well, MW-5, in all quarterly reports as stated in your 2/2/93 letter.
3. Please provide evidence of B.P.'s request and denial for the installation of borings on Foothill Blvd. just west of your site. Recall, I requested this information in my 3-26-93 letter to you.
4. Lastly, our office agrees with the termination of the analysis for halogenated volatile organics for MW-2. We concur that the initial detection of methylene chloride appears to have been an anomaly and doesn't require further investigation.

You may contact me at (510) 271-4530 if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Barney M. Chan".

Barney M. Chan  
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office  
B. Nagle, Alisto, 1777 Oakland Blvd., Suite 200, Walnut  
Creek, CA  
E. Howell, files 4-4280BP



ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

March 26, 1993  
StID #102

Mr. Scott Hooton  
B.P. Oil Company  
16400 South Center Parkway, Suite 301  
Tukwila, WA 98188

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
80 Swan Way, Rm 200  
Oakland, CA 94621  
(510) 271-4530

**Re: Comment on February 2, 1993 Letter Regarding Status at  
BP Oil Site No. 11109, 4280 Foothill Blvd., Oakland 94601**

Dear Mr. Hooton:

We have received your February 2, 1993 letter in response to my January 30, 1993 letter regarding the status of the investigation and remediation at the above site. Our office has the following comments to this letter:

1. In your response to my point four, you stated that you believed additional exploratory borings may provide a better understanding of the areal hydrostratigraphy. You also stated that your requests for permission to drill in the street had been denied by the City of Oakland. Please provide evidence of this attempt and identify any persons our office may contact to support your request for off-site drilling or on-site permitting.

2. Our office's requests the resumption of the analysis of halogenated volatile organics based on the groundwater results of your February 14, 1991 sampling which reported 51 ppb methylene chloride, detection limit= 5ppb. Please reinstate HVOC's in your analysis unless you can explain this analytical result. MW-2 only

Please provide written comment to the above issues within 30 days of receipt of this letter.

You may contact me at (510) 271-4530 if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Barney M. Chan".

Barney M. Chan  
Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office  
R. Hiett, RWQCB  
B. Oliva, ACHCSA  
E. Howell, file *EH*  
1-4280 FTH1