



BP OIL

**ENVIRONMENTAL
PROTECTION**

BP Oil Company
Environmental Resources Management
Building 13, Suite N
205 SW 41st Street
Renton, Washington 98055-4931
(206) 251-0667
Fax No: (206) 251-0736

96 NOV -7 PM 1: 54

November 1, 1996

Ms Eva Chu
Alameda County Health Care Services Agency
1131 Harbour Bay Parkway Room 250
Oakland, CA 94502-6577

(include DO measurement for wells MW-2, MW-3)

**RE: BP OIL FACILITY #11104
1716 Webster Street
Alameda, CA**

Dear Ms Chu:

Attached please find our **GROUNDWATER MONITORING AND SAMPLING REPORT DATED JULY 20, 1996** for the above referenced facility. Plans for the following quarter include additional groundwater monitoring.

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

Respectfully,

Scott T. Hooton
Environmental Resources Management
Corrective Action Manager

STH:sb msward\ERM11104

cc: Mr. Eddy So, CRWQCB, San Francisco Bay Region, 2101 Webster Street, Suite 500,
Oakland, CA 94612

TOSCO Northwest Co., 601 Union Street, Suite 2500, Seattle, WA 98101

Mr. Brady Nagle, Alisto, 1777 Oakland Blvd., Suite 200, Walnut Creek, CA 94596

Site File

GROUNDWATER MONITORING AND SAMPLING REPORT

**BP Oil Company Service Station No. 11104
1716 Webster Street
Alameda, California**

Project No. 10-155-05-004

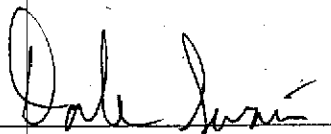
Prepared for:

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

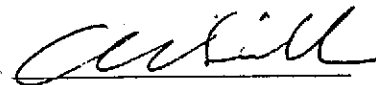
Prepared by:

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

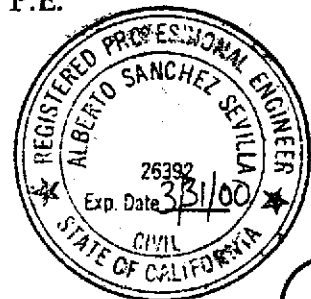
July 10, 1996



**Dale Swain
Project Manager**



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



GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11104
1716 Webster Street
Alameda, California

Project No. 10-155-05-004

July 10, 1996

INTRODUCTION

This report presents the results and findings of the May 8, 1996 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11104, 1716 Webster Street, Alameda, 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.

Groundwater monitoring was performed concurrently at the neighboring Chevron service station, 1802 Webster Street. The results are presented in Table 2.

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. 11104
 1716 WEBSTER STREET, ALAMEDA, CALIFORNIA

ALISTO PROJECT NO. 10-155

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (mg/l)	DO (ppm)	LAB
MW-1	07/21/92	11.98	5.91	8.07	34000	7000	1700	2500	6900	---	---	---	---
MW-1	10/20/92	11.98	6.66	5.32	---	---	---	---	---	---	---	---	---
MW-1	03/05/93	11.98	4.56	7.42	---	---	---	---	---	---	---	---	---
MW-1	04/01/93	11.98	4.57	7.41	---	---	---	---	---	---	---	---	---
MW-1	07/09/93	11.98	5.25	6.73	77000	15000	1400	2100	7400	---	---	---	PACE
MW-1	(c) 07/09/93	11.98	---	---	79000	16000	1500	2200	7700	---	---	---	PACE
MW-1	10/08/93	11.98	6.01	5.97	42000	7100	270	2700	4700	---	---	---	PACE
MW-1	01/06/94	11.98	6.24	5.74	45000	12000	4300	3000	6700	---	---	---	PACE
MW-1	04/26/94	11.98	5.28	6.72	39000	6500	500	1800	1200	---	---	6.3	PACE
MW-1	07/25/94	11.98	5.60	6.38	38000	6300	240	1500	1100	---	---	1.7	PACE
MW-1	10/13/94	11.98	6.15	5.83	25000	6300	130	1300	830	---	---	2.3	PACE
MW-1	(c) 10/13/94	11.98	---	---	25000	7300	120	1200	740	---	---	---	PACE
MW-1	01/17/95	11.98	4.19	7.79	7800	3100	1100	460	850	---	---	7.9	ATI
MW-1	(c) 01/17/95	11.98	---	---	8400	3100	1200	470	1000	---	---	---	ATI
MW-1	03/31/95	11.98	4.48	7.50	37000	6700	6900	1200	4500	---	---	6.4	ATI
MW-1	(c) 03/31/95	11.98	---	---	40000	6900	7300	1300	5000	---	---	---	ATI
MW-1	05/01/95	11.98	4.39	7.59	---	---	---	---	---	---	---	---	---
MW-1	07/12/95	11.98	5.02	8.96	29000	7000	300	1500	3900	---	---	7.2	ATI
QC-1	(c) 07/12/95	---	---	---	29000	6600	380	1500	3900	---	---	---	ATI
MW-1	10/12/95	11.98	5.68	6.30	20000	3400	310	1100	3000	15000	---	6.3	ATI
QC-1	(c) 10/12/95	---	---	---	20000	3500	310	1100	3000	14000	---	---	ATI
MW-1	02/27/96	11.98	4.18	7.80	18000	4400	2900	860	2380	5500	472	7.9	SPL
MW-1	05/08/96	11.98	4.89	7.09	---	---	---	---	---	---	---	---	---
MW-1	05/09/96	11.98	---	---	14000	2300	1900	540	3340	2700	---	6.1	SPL
MW-2	07/21/92	12.98	6.44	6.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-2	10/20/92	12.98	7.39	5.59	---	---	---	---	---	---	---	---	---
MW-2	03/05/93	12.98	4.91	8.07	---	---	---	---	---	---	---	---	---
MW-2	04/01/93	12.98	4.92	8.06	---	---	---	---	---	---	---	---	---
MW-2	07/09/93	12.98	5.60	7.38	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-2	10/08/93	12.98	6.50	6.48	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-1	(c) 10/08/93	12.98	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-2	01/06/94	12.98	6.25	6.73	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-2	04/26/94	12.98	5.73	7.25	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-2	07/25/94	12.98	6.07	6.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	2.4	PACE
MW-2	10/13/94	12.98	6.80	6.18	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	2.4	PACE
MW-2	01/17/95	12.98	5.10	7.88	---	---	---	---	---	---	---	---	---
MW-2	03/31/95	12.98	4.69	8.29	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	7.3	ATI
MW-2	05/01/95	12.98	5.23	7.75	---	---	---	---	---	---	---	---	---
MW-2	07/12/95	12.98	5.40	7.58	---	---	---	---	---	---	---	---	---
MW-2	10/12/95	12.98	6.06	6.92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	6.9	ATI
MW-2	02/27/96	12.98	4.66	8.32	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	412	8.7	SPL
MW-2	05/08/96	12.98	5.28	7.70	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11104
 1716 WEBSTER STREET, ALAMEDA, CALIFORNIA

ALISTO PROJECT NO. 10-155

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (b) (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (mg/l)	DO (ppm)	LAB
MW-3	(d) 07/21/92	13.38	7.07	6.31	ND<50	0.95	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-3	10/20/92	13.38	8.06	5.32	---	---	---	---	---	---	---	---	---
MW-3	03/05/93	13.38	5.16	8.22	---	---	---	---	---	---	---	---	---
MW-3	04/01/93	13.38	5.25	8.13	---	---	---	---	---	---	---	---	---
MW-3	07/09/93	13.38	5.80	7.58	ND<50	0.6	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-3	10/08/93	13.38	7.17	6.21	ND<50	0.6	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-3	01/06/94	13.38	6.94	6.44	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-3	04/26/94	13.38	6.18	7.20	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	3.1	PACE
MW-3	07/25/94	13.38	6.67	6.71	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	2.2	PACE
MW-3	10/13/94	13.38	7.43	5.95	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	2.1	PACE
MW-3	01/17/95	13.38	5.07	8.31	---	---	---	---	---	---	---	---	---
MW-3	03/31/95	13.38	4.03	9.35	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	6.6	ATI
MW-3	05/01/95	13.38	4.94	8.44	---	---	---	---	---	---	---	---	---
MW-3	07/12/95	13.38	5.80	7.58	---	---	---	---	---	---	---	---	---
MW-3	10/12/95	13.38	6.64	6.74	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	6.4	ATI
MW-3	02/27/96	13.38	4.75	8.63	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	316	8.5	SPL
MW-3	05/08/96	13.38	5.66	7.52	---	---	---	---	---	---	---	---	---
MW-4	03/05/93	11.80	4.81	6.99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-4	04/01/93	11.80	4.80	7.00	---	---	---	---	---	---	---	---	---
MW-4	07/09/93	11.80	5.54	6.26	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-4	10/08/93	11.80	6.28	5.52	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-4	01/06/94	11.80	5.82	5.98	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-4	04/26/94	11.80	5.50	6.30	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	7.4	PACE
MW-4	07/25/94	11.80	5.83	5.97	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	7.2	PACE
MW-4	10/13/94	11.80	6.26	5.54	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	6.7	PACE
MW-4	01/17/95	11.80	4.19	7.61	---	---	---	---	---	---	---	---	---
MW-4	03/31/95	11.80	3.96	7.84	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	7.1	ATI
MW-4	05/01/95	11.80	4.49	7.31	---	---	---	---	---	---	---	---	---
MW-4	07/12/95	11.80	5.16	6.64	---	---	---	---	---	---	---	---	---
MW-4	10/12/95	11.80	5.80	6.00	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	6.9	ATI
MW-4	02/27/96	11.80	4.22	7.58	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	256	8.9	SPL
MW-4	05/08/96	11.80	5.00	6.80	---	---	---	---	---	---	---	---	---
MW-5	04/01/93	11.62	4.77	6.85	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	---
MW-5	07/09/93	11.62	5.40	6.22	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-5	10/08/93	11.62	5.87	5.75	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-5	01/06/94	11.62	5.75	5.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
MW-5	04/26/94	11.62	5.49	6.13	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	7.1	PACE
MW-5	07/25/94	11.62	5.69	5.93	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	6.6	PACE
MW-5	10/13/94	11.62	6.03	5.59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	3.0	PACE
MW-5	01/17/95	11.62	4.74	6.88	---	---	---	---	---	---	---	---	---
MW-5	03/31/95	11.62	4.58	7.04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	7.1	ATI
MW-5	05/01/95	11.62	4.79	6.83	---	---	---	---	---	---	---	---	---
MW-5	07/12/95	11.62	5.32	6.30	---	---	---	---	---	---	---	---	---
MW-5	10/12/95	11.62	5.70	5.92	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	6.7	ATI
MW-5	(e) 02/27/96	11.62	---	---	---	---	---	---	---	---	---	---	---
MW-5	05/08/96	11.62	4.91	6.71	---	---	---	---	---	---	---	---	---

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11104
 1716 WEBSTER STREET, ALAMEDA, CALIFORNIA

ALISTO PROJECT NO. 10-155

WELL ID	DATE OF SAMPLING/ MONITORING	CASING ELEVATION (Feet)	DEPTH TO WATER (Feet)	GROUNDWATER ELEVATION (Feet)	TPH-G (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	X (ug/l)	MTBE (ug/l)	TDS (mg/l)	DO (ppm)	LAB
RW-1	01/06/94	11.84	5.59	6.25	23000	3800	210	840	2100	---	---	---	PACE
QC-1 (c)	01/06/94	---	---	---	24000	3700	210	830	2000	---	---	---	PACE
RW-1	04/26/94	11.84	5.21	6.63	24000	3500	120	800	1700	---	---	6.4	PACE
QC-1 (c)	04/26/94	---	---	---	22000	3300	110	700	1700	---	---	---	PACE
RW-1	07/25/94	11.84	5.52	6.32	31000	4800	290	1100	1700	---	---	5.5	PACE
QC-1 (c)	07/25/94	---	---	---	28000	4400	240	960	1400	---	---	---	PACE
RW-1	10/13/94	11.84	6.05	5.79	20000	4200	46	990	440	---	---	6.8	PACE
RW-1	01/17/95	11.84	4.02	7.82	9600	1500	65	300	2700	---	---	7.7	ATI
RW-1	03/31/95	11.84	3.81	8.03	16000	1500	790	370	2000	---	---	7.8	ATI
RW-1	05/01/95	11.84	4.21	7.63	---	---	---	---	---	---	---	---	---
RW-1	07/12/95	11.84	4.93	6.91	22000	3700	150	950	2800	---	---	7.2	ATI
RW-1	10/12/95	11.84	5.46	6.38	30000	1600	1500	1700	8500	4300	---	7.0	ATI
RW-1	02/27/96	11.84	4.00	7.84	1800	30	24	41	440	52	194	7.7	SPL
QC-1 (c)	02/27/96	---	---	---	1600	30	23	38	420	50	---	---	SPL
RW-1	05/08/96	11.84	4.65	7.19	---	---	---	---	---	---	---	---	---
RW-1	05/09/96	11.84	---	---	3200	19	19	97	800	ND<50	---	7.1	SPL
QC-1 (c)	05/09/96	---	---	---	2900	15	15	78	700	ND<50	---	---	SPL
QC-2 (f)	07/09/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2 (f)	10/08/93	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2 (f)	01/06/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2 (f)	04/26/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2 (f)	07/25/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2 (f)	10/13/94	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	---	---	---	PACE
QC-2 (f)	01/17/95	---	---	---	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	---	---	---	ATI
QC-2 (f)	03/31/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	ATI
QC-2 (f)	07/12/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---	---	---	ATI
QC-2 (f)	10/12/95	---	---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	---	---	ATI
QC-2 (f)	02/27/96	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	SPL
QC-2 (f)	05/09/96	---	---	---	ND<50	ND<0.5	ND<1	ND<1	ND<1	ND<10	---	---	SPL

ABBREVIATIONS:

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

NOTES:

- (a) Top of casing elevations surveyed in reference to USGS benchmark (14.108 feet above mean sea level) at northwest corner of Webster Street and Pacific Avenue.
- (b) Groundwater elevations in feet above mean sea level.
- (c) Blind duplicate.
- (d) Sample also analyzed for cadmium, nickel, chromium, lead, and zinc. None were detected above the reported detection limit.
- (e) Well inaccessible.
- (f) Travel blank.

F:\010-155\155-5-4.WQ2

TABLE 2 - SUMMARY OF RESULTS OF GROUNDWATER MONITORING
 CHEVRON STATION 9-0290
 1802 WEBSTER STREET, ALAMEDA, CALIFORNIA

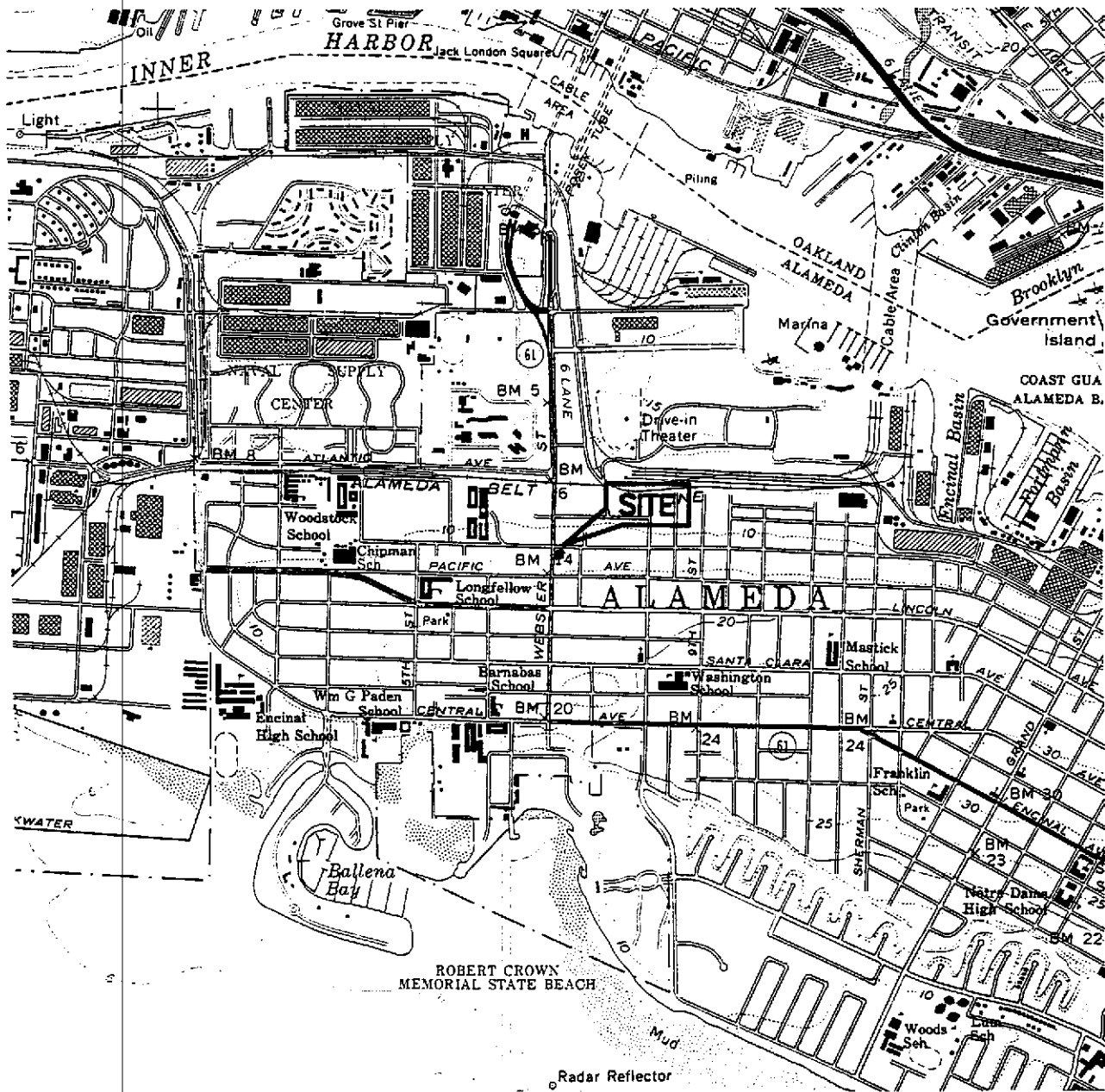
ALISTO PROJECT NO. 10-155

WELL ID	DATE OF MONITORING	CASING ELEVATION (a) (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GROUNDWATER ELEVATION (b) (Feet)
A-1	05/01/95	11.56	5.80	0.60	6.21
A-1	05/08/96	11.56	5.49	0.28	6.28
B-1	02/15/95	12.12	5.37	0.00	6.75
B-1	05/01/95	12.12	5.12	0.00	7.00
B-1	05/08/96	12.12	4.80	0.00	7.32
B-5	02/15/95	10.18	4.15	0.00	6.03
B-5	05/01/95	10.18	4.43	0.00	5.75
B-5	05/08/96	10.18	4.40	0.00	5.78
B-6	02/15/95	11.97	4.70	0.00	7.27
B-6	05/01/95	11.97	5.03	0.00	6.94
B-6	05/08/96	11.97	5.23	0.00	6.74
B-7	02/15/95	10.54	4.22	0.00	6.32
B-7	05/01/95	10.54	4.50	0.00	6.04
B-8	02/15/95	11.99	4.72	0.00	7.27
B-8	05/01/95	11.99	5.00	0.00	6.99
B-9	02/15/95	10.70	3.61	0.00	7.09
B-9	05/01/95	10.70	4.29	0.00	6.41
B-10	05/08/96	11.42	5.55	0.00	5.87
B-11	05/08/96	11.98	5.00	0.00	6.98
B-12	05/08/96	11.16	5.08	0.00	6.08
B-13	05/08/96	11.17	4.97	0.00	6.20

NOTES:

- (a) Top of casing elevations surveyed relative to 1929 NGVD. Measured in feet above mean sea level.
- (b) Groundwater elevations assuming a specific gravity of 0.75 for separate-phase product.

Source: Groundwater data collected by Blaine Tech Services, Inc.



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

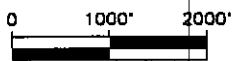


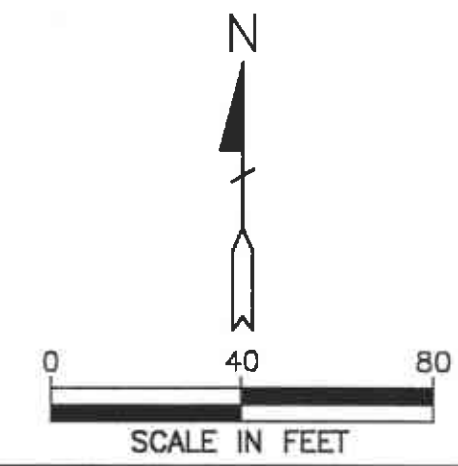
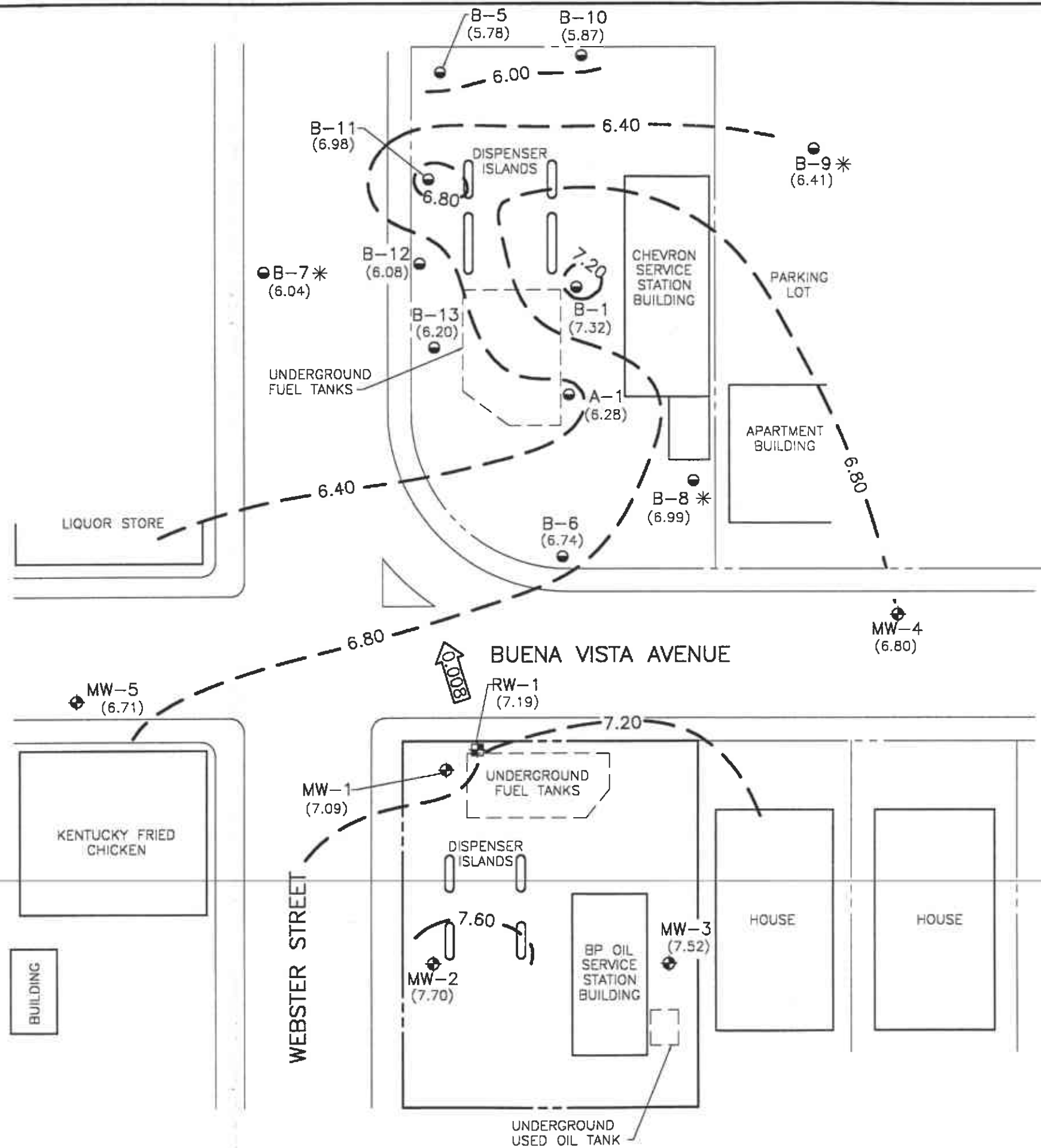
FIGURE 1

SITE VICINITY MAP

**BP OIL SERVICE STATION NO. 11104
 1716 WEBSTER STREET
 ALAMEDA, CALIFORNIA
 PROJECT NO. 10-155**



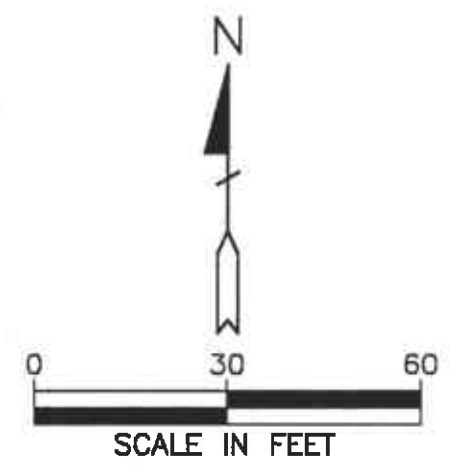
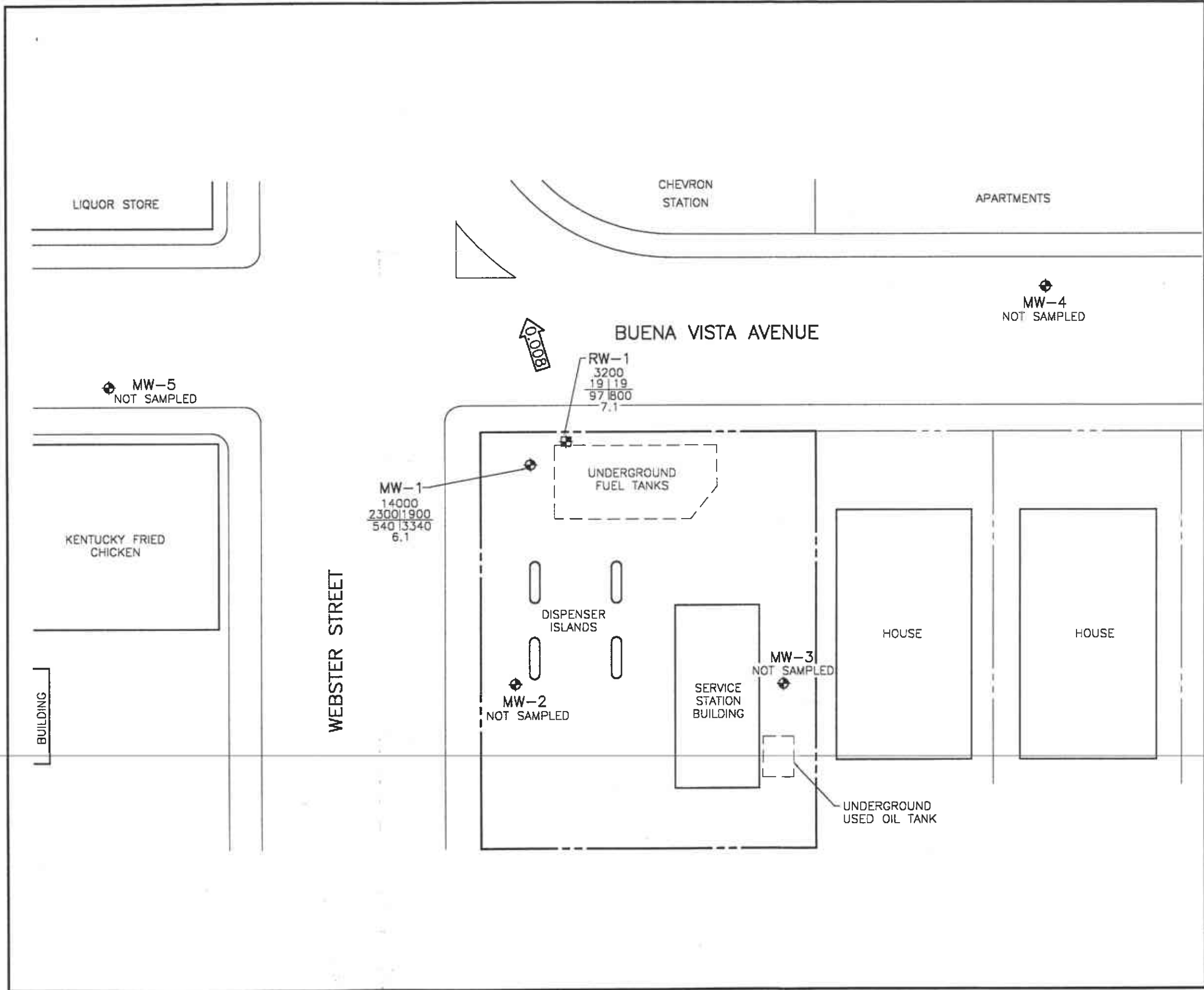
ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



- LEGEND**
- ◆ BP OIL GROUNDWATER MONITORING WELL
 - ⊠ GROUNDWATER RECOVERY WELL
 - CHEVRON GROUNDWATER MONITORING WELL
 - (7.19) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - - - 7.20 - - - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL - 0.40 FOOT)
 - ← 0.008 → CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT
 - * MONITORED ON MAY 1, 1996

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
MAY 8, 1996
 BP OIL SERVICE STATION NO. 11104
 1716 WEBSTER STREET
 ALAMEDA, CALIFORNIA
 PROJECT NO. 10-155





- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - ◆ GROUNDWATER RECOVERY WELL
 - TPH-G
B | T
E | X
DO
CONCENTRATION OF CONSTITUENTS IN MICROGRAMS PER LITER, EXCEPT DISSOLVED OXYGEN, WHICH IS IN PARTS PER MILLION
 - TPH-G
B
T
E
X
DO
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 - B BENZENE
 - T TOLUENE
 - E ETHYLBENZENE
 - X TOTAL XYLENES
 - DO DISSOLVED OXYGEN
 - ND NOT DETECTED ABOVE REPORTED DETECTION LIMIT
 - ←0.008
CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 3

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER

MAY 9, 1996

BP OIL SERVICE STATION NO. 11104
1716 WEBSTER STREET
ALAMEDA, CALIFORNIA

PROJECT NO. 10-155

APPENDIX A
WATER SAMPLING FIELD SURVEY FORMS

ALISTO

Field Report / Sampling Data Sheet

Tagged 5/8/96
Date: 5/9/96

ENGINEERING

GROUP

1575 TREAT BOULEVARD, SUITE 201

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

Project No. 10-155-05-004

Address 1716 Webster St.

Contract No. G602065

Station No. BP 11104

Date: 5/9/96

Day: MTWTF

City: Alameda

Sampler: LB

DEPTH TO GROUNDWATER SUMMARY

TB (QC-2) IS S-4

WELL ID	SAMPLE ID	WELL DIAM	TOTAL DEPTH	DEPTH TO WATER	PRODUCT THICKNESS	TIME MONITORED	COMMENTS:
MW-1	S-1	2"	16.88	4.89	X	1430	
MW-2	N/S	↓	N/A	5.28	↓	1406	SEMI / FEB-AUG
MW-3	↓	↓	↓	5.86	↓	1410	SEMI / FEB-AUG
MW-4	↓	↓	↓	5.00	↓	1417	SEMI / FEB-AUG
MW-5	↓	↓	↓	4.91	↓	1421	SEMI / FEB-AUG
RW-1	S-2	6"	4.18	4.65	✓	1433	QC-1 Also taken from this well (S-3)

FIELD INSTRUMENT CALIBRATION DATA

pH METER *Aqua check* 4.00 4 7.00 7 10.00 10 TEMPERATURE COMPENSATED N TIME _____ WEATHER clear

D.O. METER *Aqua check* ZERO d.O. SOLUTION 0 BAROMETRIC PRESSURE 760 TEMP 71

CONDUCTIVITY METER *Aqua check* 10,000 _____ TURBIDITY METER _____ 5.0 NTU _____ OTHER X

Well ID	Depth to Water	Diam	Cap/Lock	Product	Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.		
MW-1	4.89	2"	OK	Ø	Y	N	2	1457	68.2	7.14	540µs	5.7	<input type="checkbox"/> EPA 601 _____	
Total Depth - Water Level=							x Well Vol. Factor=	x#vol. to Purge	PurgeVol.				<input checked="" type="checkbox"/> TPH-G/BTEX <u>ACL</u>	
16.88 - 4.89 = 11.99							x .16 =	1.92 X 3 =	5.76	6	1510	66.8	7.01	<input type="checkbox"/> TPH Diesel _____
Purge Method: OSurface Pump ODisp.Tube OWinch XDisp. Baller(s) OSys Port														<input type="checkbox"/> TOG 5520 _____
Comments:														TIME/SAMPLE ID
												<u>1515</u>		

Well ID	Depth to Water	Diam	Cap/Lock	Product	Dept	Iridescence	Gal.	Time	Temp *F	pH	E.C.	D.O.		
RW-1	4.65	6"	OK	Ø	Y	N	3	1531	69.3	7.14	479µs	7.0	<input type="checkbox"/> EPA 601 _____	
Total Depth - Water Level=							x Well Vol. Factor=	x#vol. to Purge	PurgeVol.				<input checked="" type="checkbox"/> TPH-G/BTEX <u>ACL</u>	
21.61 - 4.65 = 16.96							x .16 =	2.71 X 3 =	8.13	8.5	1550	68.0	7.11	<input type="checkbox"/> TPH Diesel _____
Purge Method: OSurface Pump ODisp.Tube OWinch XDisp. Baller(s) OSys Port														<input type="checkbox"/> TOG 5520 _____
Comments: <u>QC-1 from this well (S-3)</u>														TIME/SAMPLE ID
												<u>1551</u>		

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD




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

SPL, INC.

REPORT APPROVAL SHEET

WORK ORDER NUMBER: 96 - 05 - 583

Approved for release by:



Greg Grandits, Laboratory Director

Date: 5/21/96



Ed Fry, Project Manager

Date: 5/21/96

RECEIVED
MAY 21 1996



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

Certificate of Analysis No. H9-9605583-01

Alisto Engineering
 1575 Treat Blvd.
 Walnut Creek, CA 94598
 ATTN: Dale Swain

P.O.#
 , COC#071199
 DATE: 05/21/96

PROJECT: BP Oil #11104
 SITE: Alameda, CA
 SAMPLED BY: Alisto Engineering
 SAMPLE ID: S-1

PROJECT NO: 10-155-05-004
 MATRIX: WATER
 DATE SAMPLED: 05/09/96
 DATE RECEIVED: 05/11/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	2700	250 P	µg/L
Benzene	2300	12 P	µg/L
Toluene	1900	12 P	µg/L
Ethylbenzene	540	12 P	µg/L
Total Xylene	3340	12 P	µg/L

Surrogate

% Recovery

1,4-Difluorobenzene	97
4-Bromofluorobenzene	97

METHOD 8020***

Analyzed by: YN

Date: 05/16/96

Total Petroleum Hydrocarbons-Gasoline 14 1.2 P mg/L

Surrogate

% Recovery

1,4-Difluorobenzene	133
4-Bromofluorobenzene	90

CA LUFT - Gasoline

Analyzed by: YN

Date: 05/16/96 08:12:00

(P) - Practical Quantitation Limit

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

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



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

Certificate of Analysis No. H9-9605583-02

Alisto Engineering
 1575 Treat Blvd.
 Walnut Creek, CA 94598
 ATTN: Dale Swain

P.O.#
 , COC#071199
 DATE: 05/21/96

PROJECT: BP Oil #11104
 SITE: Alameda, CA
 SAMPLED BY: Alisto Engineering
 SAMPLE ID: S-2

PROJECT NO: 10-155-05-004
 MATRIX: WATER
 DATE SAMPLED: 05/09/96
 DATE RECEIVED: 05/11/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	50 P	µg/L
Benzene	19	2.5 P	µg/L
Toluene	19	2.5 P	µg/L
Ethylbenzene	97	2.5 P	µg/L
Total Xylene	800	2.5 P	µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	86
4-Bromofluorobenzene	102

METHOD 8020***

Analyzed by: YN

Date: 05/16/96

Total Petroleum Hydrocarbons-Gasoline	3.2	0.25 P	mg/L
---------------------------------------	-----	--------	------

Surrogate	% Recovery
1,4-Difluorobenzene	112
4-Bromofluorobenzene	103

CA LUFT - Gasoline

Analyzed by: YN

Date: 05/16/96 08:39:00

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. H9-9605583-03

Alisto Engineering
 1575 Treat Blvd.
 Walnut Creek, CA 94598
 ATTN: Dale Swain

P.O.#
 , COC#071199
 DATE: 05/21/96

PROJECT: BP Oil #11104
 SITE: Alameda, CA
 SAMPLED BY: Alisto Engineering
 SAMPLE ID: S-3

PROJECT NO: 10-155-05-004
 MATRIX: WATER
 DATE SAMPLED: 05/09/96
 DATE RECEIVED: 05/11/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	50 P	µg/L
Benzene	15	2.5 P	µg/L
Toluene	15	2.5 P	µg/L
Ethylbenzene	78	2.5 P	µg/L
Total Xylene	700	2.5 P	µg/L
Surrogate		% Recovery	
1,4-Difluorobenzene	86		
4-Bromofluorobenzene	101		
METHOD 8020***			
Analyzed by: YN			
Date: 05/16/96			
Total Petroleum Hydrocarbons-Gasoline	2.9	0.25 P	mg/L
Surrogate		% Recovery	
1,4-Difluorobenzene	112		
4-Bromofluorobenzene	103		
CA LUFT - Gasoline			
Analyzed by: YN			
Date: 05/16/96 09:05:00			

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. H9-9605583-04

Alisto Engineering
 1575 Treat Blvd.
 Walnut Creek, CA 94598
 ATTN: Dale Swain

P.O.#
 , COC#071199
 DATE: 05/21/96

PROJECT: BP Oil #11104
 SITE: Alameda, CA
 SAMPLED BY: Alisto Engineering
 SAMPLE ID: S-4

PROJECT NO: 10-155-05-004
 MATRIX: WATER
 DATE SAMPLED: 02/14/96
 DATE RECEIVED: 05/11/96

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
MTBE	ND	10 P	µg/L
Benzene	ND	0.5 P	µg/L
Toluene	ND	1 P	µg/L
Ethylbenzene	ND	1 P	µg/L
Total Xylene	ND	1 P	µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	84
4-Bromofluorobenzene	71

METHOD 8020***
 Analyzed by: fab
 Date: 05/14/96

Total Petroleum Hydrocarbons-Gasoline ND 0.05 P mg/L

Surrogate	% Recovery
1,4-Difluorobenzene	110
4-Bromofluorobenzene	50

CA LUFT - Gasoline
 Analyzed by: fab
 Date: 05/14/96 11:24:00

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

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

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

QUALITY CONTROL
DOCUMENTATION



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

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

Matrix: Aqueous
Units: µg/L

Batch Id: HP_J960516010800

LABORATORY CONTROL SAMPLE

S P I K E C O M P O U N D S	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) ‡ Recovery Range
			Result <1>	Recovery ‡	
MTBE	ND	50	46	92.0	20 - 110
Benzene	ND	50.0	48	96.0	62 - 121
Toluene	ND	50	51	102	66 - 136
EthylBenzene	ND	50	52	104	70 - 136
O Xylene	ND	50	53	106	74 - 134
M & P Xylene	ND	100	110	110	77 - 140

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

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		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	22	110	21	105
BENZENE	ND	20	23	115	23	115	0	25	39 - 150
TOLUENE	ND	20	25	125	24	120	4.08	26	56 - 134
ETHYLBENZENE	ND	20	24	120	23	115	4.26	38	61 - 128
O XYLENE	ND	20	26	130	25	125	3.92	29	40 - 130
M & P XYLENE	ND	40	51	128	50	125	2.37	20	43 - 152

Analyst: YN

Sequence Date: 05/16/96

SPL ID of sample spiked: 9605515-01A

Sample File ID: J__076.TX0

Method Blank File ID:

Blank Spike File ID: J__065.TX0

Matrix Spike File ID: J__069.TX0

Matrix Spike Duplicate File ID: J__070.TX0

* = Values Outside QC Range

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 (4th Q '95)

(***) = Source: SPL-Houston Historical Data (4th Q '95)

SAMPLES IN BATCH(SPL ID):

9605658-11A 9605451-16A 9605515-01A 9605515-02A
 9605451-13A 9605451-05A 9605451-14A 9605583-01A
 9605583-02A 9605583-03A 9605515-03A 9605515-04A
 9605515-05A 9605515-06A 9605515-07A 9605794-03A
 9605794-04A 9605794-05A 9605794-02A 9605794-01A

QC Officer



Matrix: Aqueous
Units: µg/L

Batch Id: HP_J960514190100

LABORATORY CONTROL SAMPLE

S P I K E C O M P O U N D S	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
MTBE	ND	50	54	108	20 - 110
Benzene	ND	50	52	104	62 - 121
Toluene	ND	50	53	106	66 - 136
EthylBenzene	ND	50	54	108	70 - 136
O Xylene	ND	50	55	110	74 - 134
M & P Xylene	ND	100	110	110	77 - 140

MATRIX SPIKES

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
			MTBE	ND	20	21		105	21
BENZENE	ND	20	22	110	22	110	0	25	39 - 150
TOLUENE	ND	20	22	110	22	110	0	26	56 - 134
ETHYLBENZENE	ND	20	20	100	20	100	0	38	61 - 128
O XYLENE	ND	20	22	110	22	110	0	29	40 - 130
M & P XYLENE	ND	40	43	108	42	105	2.82	20	43 - 152

Analyst: fab
Sequence Date: 05/14/96
SPL ID of sample spiked: 9605452-02A
Sample File ID: J__006.TX0
Method Blank File ID:
Blank Spike File ID: J__992.TX0
Matrix Spike File ID: J__998.TX0
Matrix Spike Duplicate File ID: J__999.TX0

* = Values Outside QC Range
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 (4th Q '95)
(***) = Source: SPL-Houston Historical Data (4th Q '95)

SAMPLES IN BATCH(SPL ID):

9605583-04A	9605364-12C	9605452-02A	9605452-03A
9605376-02A	9605364-10C	9605364-11C	9605452-08A
9605243-07A	9605243-05A	9605243-06A	9605243-02A
9605243-03A	9605243-04A	9605243-01A	

QC Officer



Matrix: Aqueous
Units: mg/L

Batch Id: HP_J960516021200

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 %	
Petroleum Hydrocarbons-Gas	ND	1.00	1.00	100	50 - 150

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

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(***) (Advisory)	
			Result <1>	Recovery <4>	Result <1>	Recovery <5>		RPD Max.	Recovery Range
PETROLEUM HYDROCARBONS-GAS	ND	0.9	1.08	120	1.09	121	0.830	50	50 - 150

Analyst: YN

Sequence Date: 05/16/96

SPL ID of sample spiked: 9605515-02A

Sample File ID: JJ_077.TX0

Method Blank File ID:

Blank Spike File ID: JJ_067.TX0

Matrix Spike File ID: JJ_071.TX0

Matrix Spike Duplicate File ID: JJ_072.TX0

* = Values Outside QC Range

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: Temporary Limits

(***) = Source: Temporary Limits

SAMPLES IN BATCH(SPL ID):

9605656-11A 9605451-16A 9605515-01A 9605515-02A
9605583-01A 9605583-02A 9605583-03A 9605515-03A
9605515-04A 9605515-05A 9605515-06A 9605515-07A

QC Officer



Matrix: Aqueous
Units: mg/L

Batch Id: HP_J960514202000

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike		QC Limits(**) (Mandatory) % Recovery Range
			Result <1>	Recovery %	
Petroleum Hydrocarbons-Gas	ND	1.0	1.07	107	50 - 150

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
PETROLEUM HYDROCARBONS-GAS	ND	0.9	0.82	91.1	0.79	87.8	3.69	50	50 - 150

Analyst: fab

Sequence Date: 05/14/96

SPL ID of sample spiked: 9605452-03A

Sample File ID: JJ_007.TX0

Method Blank File ID:

Blank Spike File ID: JJ_995.TX0

Matrix Spike File ID: JJ_001.TX0

Matrix Spike Duplicate File ID: JJ_002.TX0

* = Values Outside QC Range

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

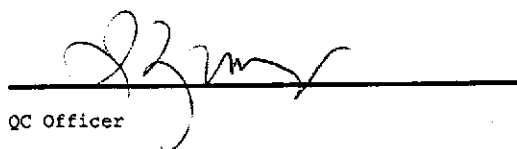
Relative Percent Difference = | (<4> - <5>) | / [(<4> + <5>) x 0.5] x 100

(**) = Source: Temporary Limits

(***) = Source: Temporary Limits

SAMPLES IN BATCH(SPL ID):

9605583-04A 9605452-02A 9605452-03A 9605452-08A
9605243-07A 9605243-05A 9605243-06A 9605243-02A
9605243-03A 9605243-04A 9605243-01A


QC Officer

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST



ALISTO 5/11/96

9605583

CHAIN OF CUSTODY

No. 071199

Page 1 of 1

CONSULTANT'S NAME Alisto Engineering		ADDRESS 1575 Trent Blvd #201		CITY W.C.	STATE Ca	ZIP CODE 94598
BP SITE NUMBER 1104	BP CORNER ADDRESS/CITY Alameda, Ca				CONSULTANT PROJECT NUMBER 10-155-05/004	
CONSULTANT PROJECT MANAGER Dale Swain		PHONE NUMBER (510) 295-1650	FAX NUMBER 295-1823		CONSULTANT CONTRACT NUMBER 6602065	
BP CONTACT Scott Hooton	BP ADDRESS Renton, WA		PHONE NUMBER -		FAX NO. -	
LAB CONTACT SPL	LABORATORY ADDRESS Texas		PHONE NUMBER -		FAX NO. -	
SAMPLED BY (Please Print Name) Larry Buenavista		SAMPLED BY (Signature) <i>[Signature]</i>		SHIPMENT DATE 5-10-96		SHIPMENT METHOD Fd Ex

TAT: 24 Hours 48 Hours 1 Week Standard 2 Weeks

ANALYSIS REQUIRED

AIRBILL NUMBER **9360717063**

SAMPLE DESCRIPTION	COLLECTION DATE	MATRIX SOIL/WATER	CONTAINERS		PRESERVATIVE	LAB SAMPLE #	COMMENTS
	COLLECTION TIME		NO.	TYPE (VOL.)			
S-1	5/9/96	W	3	AcL			
S-2	↓	↓	↓	↓			
S-3	↓	↓	↓	↓			
S-4	↓	↓	2	↓			

Handwritten notes in table:
 S-1: PH=9.0, 5/11/96
 S-2: PH=9.0, 5/11/96
 S-3: PH=9.0, 5/11/96
 S-4: PH=9.0, 5/11/96

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	ADDITIONAL COMMENTS
<i>[Signature]</i>	5/10/96	0800	Patricia Yector	5/10/96	0805	
Patricia Yector	5/10/96	1445	E. Brown	5/10/96	10:00	6°C Intact

SPL Houston Environmental Laboratory

Sample Login Checklist

Date: 5/11/96	Time: 1000
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SPL Sample ID: 9605583
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		<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:		6° C
10	Method of sample delivery to SPL:		
	SPL Delivery		
	Client Delivery		
	FedEx Delivery (airbill #)	9360717063	
	Other:		
11	Method of sample disposal:		
	SPL Disposal	✓	
	HOLD		
	Return to Client		

Name: S. West	Date: 5/11/96
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