



BP OIL

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

February 27, 1996

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

*already semi-ann. sampl. of MW-1, RW-1.
Annual pump of remaining m/s*

*Requested DO, and other bio-indicators
of natural attenuation in 5/10/96
high DO in all wells - not a
timber forest.*

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

Dear Ms Chu:

Attached please find our **GROUNDWATER MONITORING AND SAMPLING REPORT DATED December 19, 1995**, for the above referenced facility. I look forward to hearing your response to the concerns raised in my February 22, 1996 letter. You should note that joint monitoring was missed by the consultant for the Chevron service station, 1802 Webster Street.

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

Respectfully,

Scott T. Hooton
Environmental Remediation Management
Corrective Action Manager

STH:aa msword\ERM11104

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

Mr. Larry Silva, 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

Vertical stamp: RECEIVED FEB 29 1996

GROUNDWATER MONITORING AND SAMPLING REPORT

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

Project No. 10-155-05-002

DEC 28 1995

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, 1995

Dale Swain P.E.

**Dale Swain
Project Manager**

Al Sevilla

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



*10-155-05-002
10-155-05-002
10-155-05-002*

GROUNDWATER MONITORING AND SAMPLING REPORT

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

Project No. 10-155-05-002

December 19, 1995

INTRODUCTION

This report presents the results and findings of the October 12, 1995 groundwater sampling and groundwater monitoring 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. 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. 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) | DO (ppm) | LAB |
|----------|------------------------------|-------------------------|-----------------------|------------------------------|--------------|----------|----------|----------|----------|-------------|----------|------|
| MW-1 | 07/21/92 | 11.98 | 5.91 | 6.07 | 34000 | 7000 | 1700 | 2500 | 6900 | --- | --- | --- |
| MW-1 | 10/20/92 | 11.98 | 6.66 | 5.32 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 03/05/93 | 11.98 | 4.56 | 7.42 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 04/01/93 | 11.98 | 4.57 | 7.41 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-1 | 07/09/93 | 11.98 | 5.25 | 6.73 | 77000 | 15000 | 1400 | 2100 | 7400 | --- | --- | 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 | 5.26 | 6.72 | 39000 | 6500 | 500 | 1800 | 1200 | --- | 6.3 | PACE |
| MW-1 | 07/25/94 | 11.98 | 5.80 | 6.38 | 36000 | 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 | 6.96 | 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-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 | --- | 7.5 | PACE |
| MW-2 | 07/25/94 | 12.98 | 6.07 | 6.91 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | 2.4 | PACE |
| MW-2 | 10/13/94 | 12.98 | 6.80 | 6.18 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | 2.4 | PACE |
| MW-2 | 01/17/95 | 12.98 | 5.10 | 7.88 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 03/31/95 | 12.98 | 4.69 | 8.29 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | 7.3 | ATI |
| MW-2 | 05/01/95 | 12.98 | 5.23 | 7.75 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 07/12/95 | 12.98 | 5.40 | 7.58 | --- | --- | --- | --- | --- | --- | --- | --- |
| MW-2 | 10/12/95 | 12.98 | 6.06 | 6.92 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<5.0 | 6.9 | ATI |
| MW-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 |

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) | DO (ppm) | LAB |
|---------|---------------------------------|-------------------------|-----------------------|------------------------------|--------------|----------|----------|----------|----------|-------------|----------|------|
| MW-4 | 03/05/93 | 11.80 | 4.81 | 6.99 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- | -- |
| MW-4 | 04/01/93 | 11.80 | 4.80 | 7.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-4 | 07/09/93 | 11.80 | 5.54 | 6.26 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- | PACE |
| MW-4 | 10/08/93 | 11.80 | 6.28 | 5.52 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- | PACE |
| MW-4 | 01/06/94 | 11.80 | 5.82 | 5.98 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- | PACE |
| MW-4 | 04/26/94 | 11.80 | 5.50 | 6.30 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | 7.4 | PACE |
| MW-4 | 07/25/94 | 11.80 | 5.83 | 5.97 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | 7.2 | PACE |
| MW-4 | 10/13/94 | 11.80 | 6.26 | 5.54 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | 6.7 | PACE |
| MW-4 | 01/17/95 | 11.80 | 4.19 | 7.61 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-4 | 03/31/95 | 11.80 | 3.96 | 7.84 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | -- | 7.1 | ATI |
| MW-4 | 05/01/95 | 11.80 | 4.49 | 7.31 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-4 | 07/12/95 | 11.80 | 5.16 | 6.64 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-4 | 10/12/95 | 11.80 | 5.80 | 6.00 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<5.0 | 6.9 | ATI |
| MW-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 |
| RW-1 | 01/06/94 | 11.84 | 5.59 | 6.25 | 23000 | 3800 | 210 | 840 | 2100 | -- | -- | PACE |
| QC-1 | 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 | 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 | 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 | 780 | 370 | 2000 | -- | 7.8 | ATI |
| RW-1 | 05/01/95 | 11.84 | 4.21 | 7.63 | -- | -- | -- | -- | -- | -- | -- | -- |
| RW-1 | 07/12/95 | 11.84 | 4.93 | 6.91 | 22000 | 3700 | 150 | 950 | 2800 | -- | 7.2 | ATI |
| RW-1 | 10/12/95 | 11.84 | 5.46 | 6.38 | 30000 | 1600 | 1500 | 1700 | 8500 | 4300 | 7.0 | ATI |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER SAMPLING
 BP OIL COMPANY SERVICE STATION NO. 11104
 1718 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) | DO (ppm) | LAB |
|---------|------------------------------|-------------------------|-----------------------|------------------------------|--------------|----------|----------|----------|----------|-------------|----------|------|
| QC-2 | (e) 07/09/93 | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-2 | (e) 10/08/93 | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-2 | (e) 01/06/94 | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-2 | (e) 04/26/94 | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-2 | (e) 07/25/94 | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-2 | (e) 10/13/94 | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-2 | (e) 01/17/95 | --- | --- | --- | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<1 | --- | --- | ATI |
| QC-2 | (e) 03/31/95 | --- | --- | --- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | --- | ATI |
| QC-2 | (e) 07/12/95 | --- | --- | --- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | --- | --- | ATI |
| QC-2 | (e) 10/12/95 | --- | --- | --- | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<5.0 | --- | ATI |

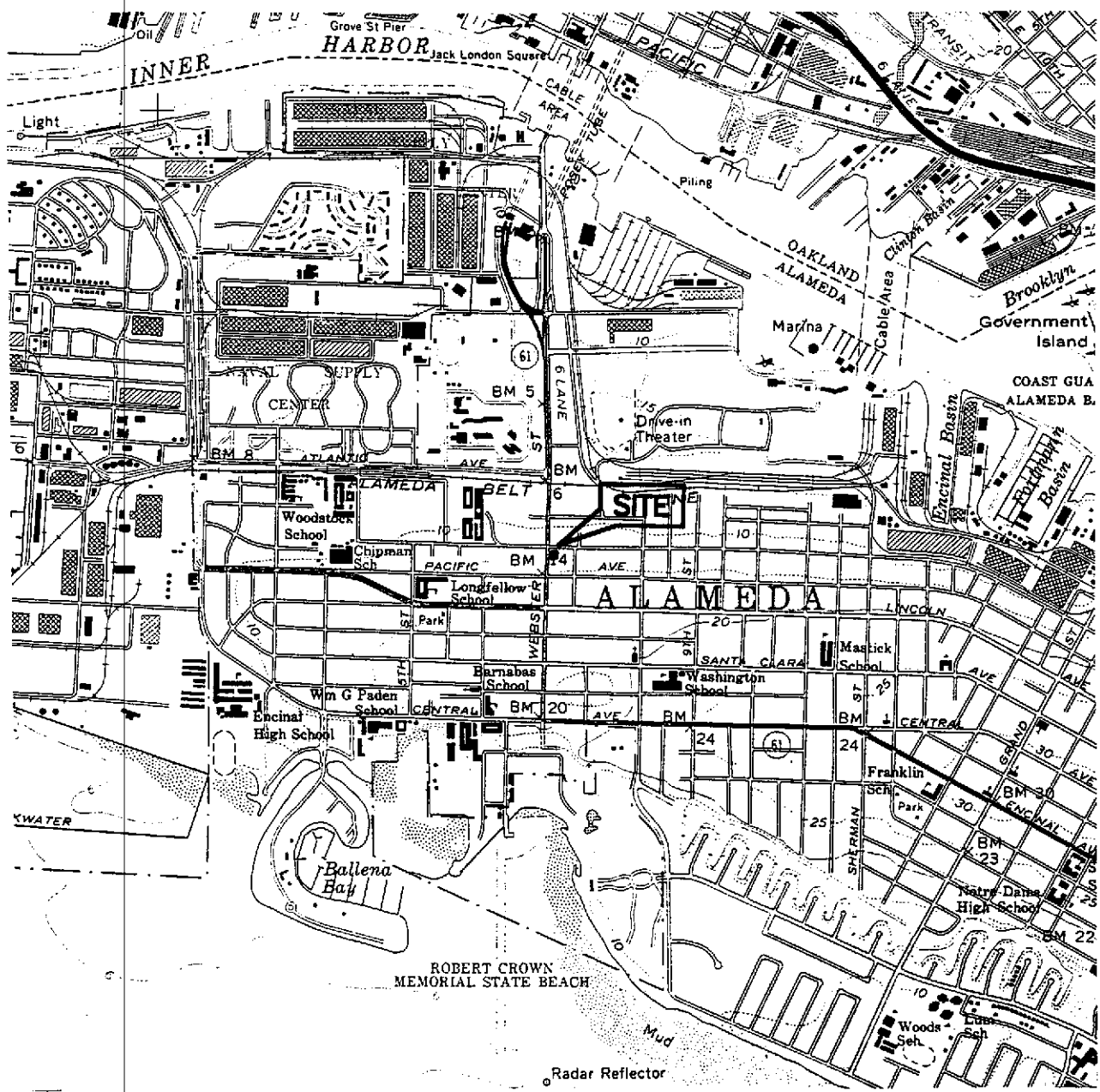
ABBREVIATIONS:

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

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) Travel blank.

E:\10-155\155-5-2.WQ2



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

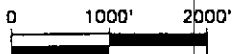
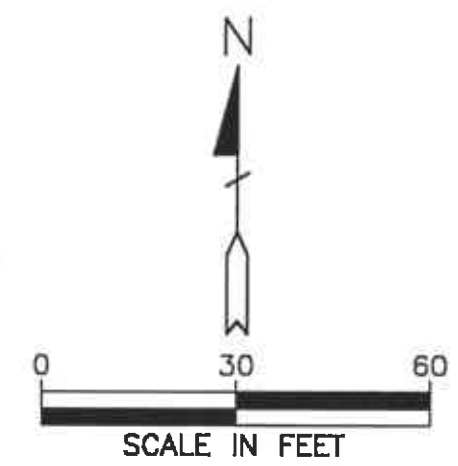
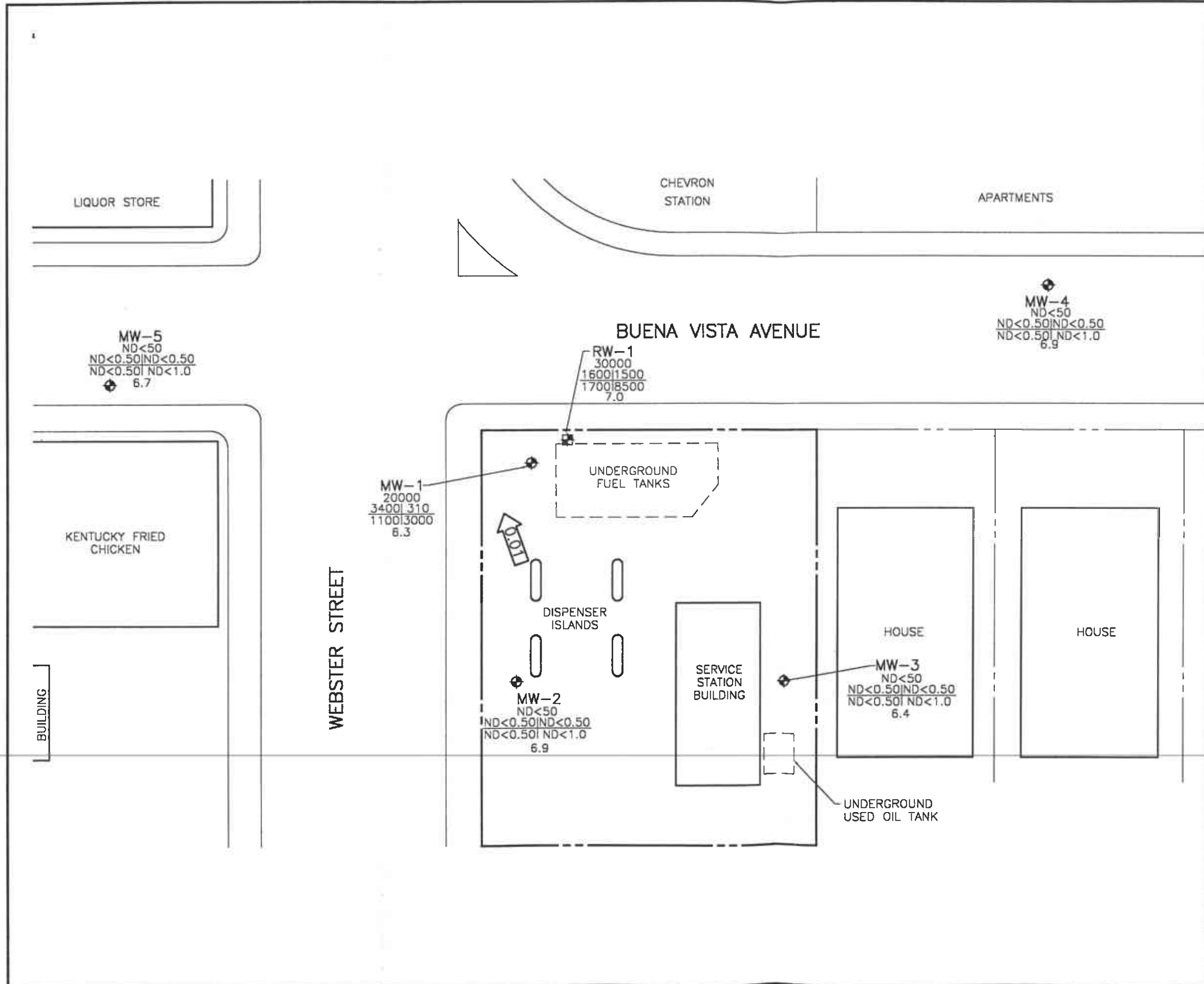


FIGURE 1
SITE VICINITY MAP

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



ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



LEGEND

- ◆ GROUNDWATER MONITORING WELL
- ⊠ GROUNDWATER RECOVERY WELL
- TPH-G CONCENTRATION OF CONSTITUENTS IN MICROGRAMS PER LITER, EXCEPT DISSOLVED OXYGEN, WHICH IS IN PARTS PER MILLION
- B | T
- E | X
- DO
- ND
- ← 0.01

TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

B BENZENE

T TOLUENE

E ETHYLBENZENE

X TOTAL XYLENES

DO DISSOLVED OXYGEN

ND NOT DETECTED ABOVE REPORTED DETECTION LIMIT

← 0.01 CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

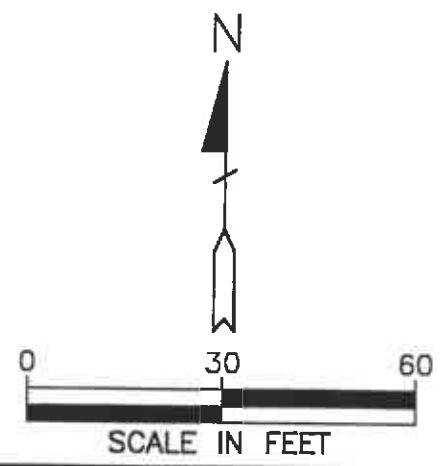
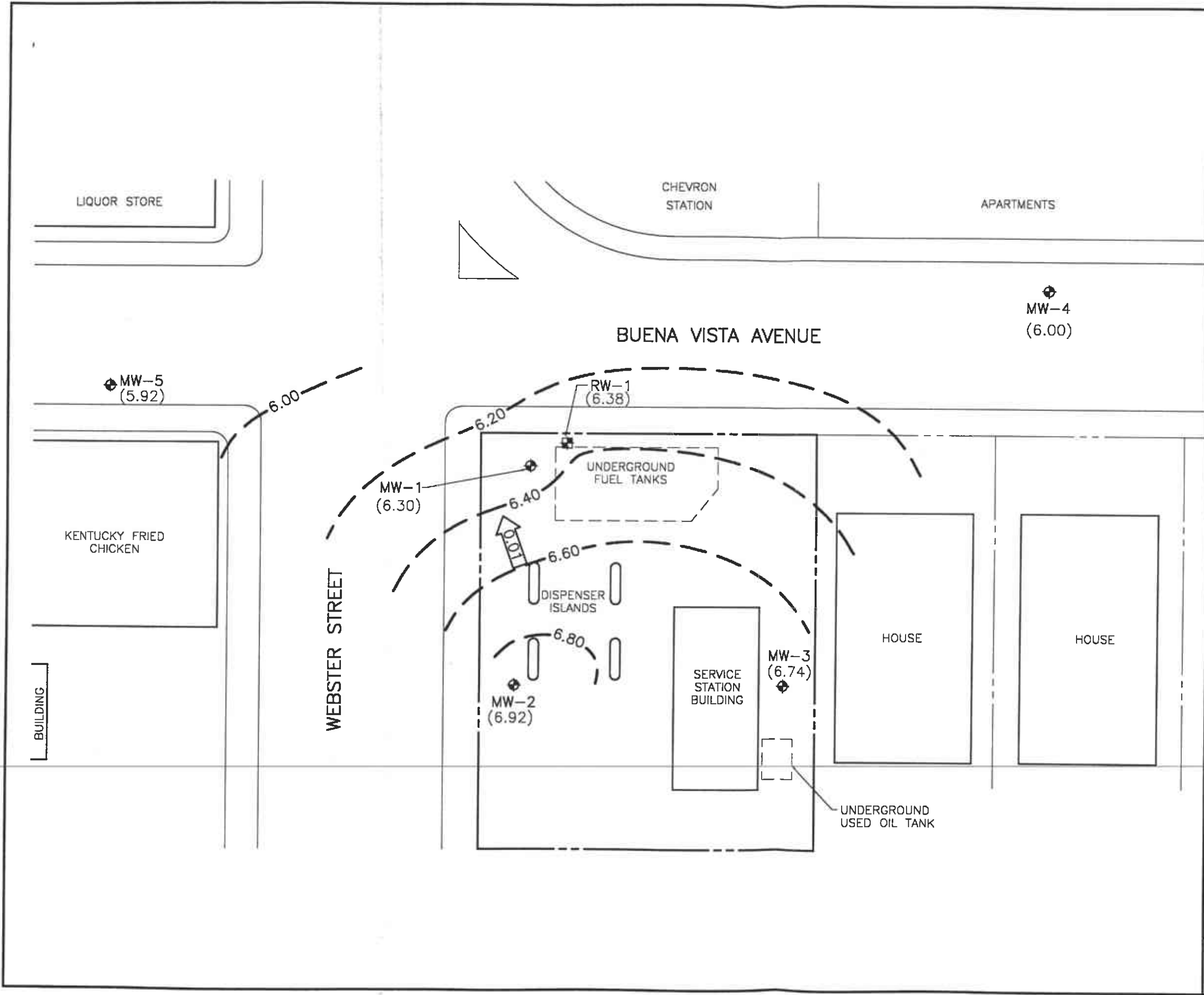
FIGURE 3

CONCENTRATIONS OF PETROLEUM HYDROCARBONS IN GROUNDWATER

OCTOBER 12, 1995

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

PROJECT NO. 10-155



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - ⊕ GROUNDWATER RECOVERY WELL
 - (6.92) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 6.80 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL=0.20 FOOT)
 - ← 0.01 → CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
OCTOBER 12, 1995
 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

ENGINEERING

GROUP

1575 TREAT BOULEVARD, SUITE 201

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

Project No. 10-155-05-002

Address 1716 Webster St.

Contract No. G602065

Station No. BP 11104

Date: 10/17/95

Day: M T W T H F

City: Alameda

Sampler: LB

DEPTH TO GROUNDWATER SUMMARY

| WELL ID | SAMPLE ID | WELL DIAM | TOTAL DEPTH | DEPTH TO WATER | PRODUCT THICKNESS | TIME SAMPLED | COMMENTS: |
|---------|-----------|-----------|-------------|----------------|-------------------|--------------|------------------------------------|
| MW-1 | S-6 | 2" | 16.88 | 5.68 | Ø | 1647 | QC-1 Dup. taken from this well S-7 |
| MW-2 | S-1 | | 15.84 | 6.06 | | 1411 | SEMI IN OCTOBER Sample |
| MW-3 | S-2 | | 16.60 | 6.64 | | 1531 | SEMI IN OCTOBER |
| MW-4 | S-3 | | 14.80 | 5.80 | | 1550 | SEMI IN OCTOBER |
| MW-5 | S-4 | ↓ | 14.80 | 5.70 | | 1610 | SEMI IN OCTOBER ↓ |
| RW-1 | S-5 | 6" | 21.61 | 5.46 | ↓ | 1626 | |

FIELD INSTRUMENT CALIBRATION DATA

pH METER Icm 4.00 4 7.00 7 10.00 10 TEMPERATURE COMPENSATED N TIME _____ WEATHER Clear

D.O. METER Icm ZERO d.O. SOLUTION 0 BAROMETRIC PRESSURE 760 TEMP 65

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

| Well ID | Depth to Water | Diam | Cap/Lock | Product Dept | Iridescence | Gal. | Time | Temp *F | pH | E.C. | D.O. | <input type="radio"/> EPA 601 _____ <input checked="" type="radio"/> TPH-G/BTEX <u>HCL</u> <input type="radio"/> TPH Diesel _____ <input type="radio"/> TOG 5520 _____ TIME/SAMPLE ID <u>1411</u> |
|--|----------------|------|----------|--------------|--------------------------------------|------|------|---------|------|--------|------|---|
| MW-2 | 6.06 | 2" | OK | Ø | Y <input checked="" type="radio"/> N | 1.5 | 1340 | 67.1 | 7.07 | 519 µS | 6.7 | |
| Total Depth - Water Level= | | | | | | 2.5 | | 66.3 | 7.01 | 510' | | |
| $15.84 - 6.06 = 9.78 \times .16 = 1.56 \times 3 = 4.68$ | | | | | | 5.0 | 1400 | 65.8 | 6.96 | 507 | 6.9 | |
| Purge Method: <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> ODisp. Tube <input type="checkbox"/> OWinch <input type="checkbox"/> ODisp. Bailer(s) <input type="checkbox"/> OSys Port | | | | | | | | | | | | |
| Comments: | | | | | | | | | | | | |

| Well ID | Depth to Water | Diam | Cap/Lock | Product Dept | Iridescence | Gal. | Time | Temp *F | pH | E.C. | D.O. | <input type="radio"/> EPA 601 _____ <input checked="" type="radio"/> TPH-G/BTEX <u>HCL</u> <input type="radio"/> TPH Diesel _____ <input type="radio"/> TOG 5520 _____ TIME/SAMPLE ID <u>1531</u> |
|--|----------------|------|----------|--------------|--------------------------------------|------|------|---------|------|--------|------|---|
| MW-3 | 6.64 | 2" | OK | Ø | Y <input checked="" type="radio"/> N | 7 | 1418 | 66.4 | 7.42 | 527 µS | 6.8 | |
| Total Depth - Water Level= | | | | | | 4 | | 65.3 | 7.37 | 519 µS | | |
| $16.60 - 6.64 = 9.96 \times .16 = 1.59 \times 3 = 4.77$ | | | | | | 5 | 1437 | 64.4 | 7.31 | 517 µS | 6.4 | |
| Purge Method: <input checked="" type="checkbox"/> Surface Pump <input type="checkbox"/> ODisp. Tube <input type="checkbox"/> OWinch <input type="checkbox"/> ODisp. Bailer(s) <input type="checkbox"/> OSys Port | | | | | | | | | | | | |
| Comments: | | | | | | | | | | | | |

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.

10-155-05-002

Address

1716 Webster St.

Contract No.

G602065

Station No.

BP 11104

Sampler:

Date:

10/12/95

Day:

MTWTF

City:

Alameda

WB

| Well ID | Depth to Water | Diam | Cap/Lock | Product Dept | Iridescence | Gal. | Time | Temp *F | pH | E.C. | D.O. | |
|--|----------------|------|----------|--------------|-------------|--------------------------------------|---------------------------------|---|------------------------------------|--------|------|--|
| MW-4 | 5.80 | 2" | OK | Ø | Y (N) | 1 | 1540 | 67.2 | 7.01 | 571/US | 6.7 | |
| Total Depth - Water Level= | | | | | | x Well Vol. Factor= | x#vol. to Purge | PurgeVol. | | | | |
| 14.80 - 5.80 = 9.00 | | | | | | x .16 = 1.44 | x 3 = 4.32 | 2.5 | | | | |
| Purge Method: <input checked="" type="checkbox"/> Surface Pump | | | | | | <input type="checkbox"/> ODisp. Tube | <input type="checkbox"/> OWinch | <input type="checkbox"/> ODisp. Bailer(s) | <input type="checkbox"/> OSys Port | | | |
| Comments: | | | | | | | | | | | | |

- EPA 601
- TPH-G/BTEX HCL
- TPH Diesel
- TOG 5520

TIME/SAMPLE ID

1550

| Well ID | Depth to Water | Diam | Cap/Lock | Product Dept | Iridescence | Gal. | Time | Temp *F | pH | E.C. | D.O. | |
|--|----------------|------|----------|--------------|-------------|--------------------------------------|---------------------------------|---|------------------------------------|--------|------|--|
| MW-5 | 5.70 | 2" | OK | Ø | Y (N) | 1 | 1553 | 65.9 | 7.42 | 520/US | 6.4 | |
| Total Depth - Water Level= | | | | | | x Well Vol. Factor= | x#vol. to Purge | PurgeVol. | | | | |
| 14.80 - 5.70 = 9.10 | | | | | | x .16 = 1.46 | x 3 = 4.38 | 2.5 | | | | |
| Purge Method: <input checked="" type="checkbox"/> Surface Pump | | | | | | <input type="checkbox"/> ODisp. Tube | <input type="checkbox"/> OWinch | <input type="checkbox"/> ODisp. Bailer(s) | <input type="checkbox"/> OSys Port | | | |
| Comments: | | | | | | | | | | | | |

- EPA 601
- TPH-G/BTEX HCL
- TPH Diesel
- TOG 5520

TIME/SAMPLE ID

1610

| Well ID | Depth to Water | Diam | Cap/Lock | Product Dept | Iridescence | Gal. | Time | Temp *F | pH | E.C. | D.O. | |
|--|----------------|------|----------|--------------|-------------|--------------------------------------|---------------------------------|---|------------------------------------|--------|------|--|
| MW-1 | 5.68 | 2" | OK | Ø | Y (N) | 2.5 | 1629 | 65.8 | 7.21 | 510/US | 6.3 | |
| Total Depth - Water Level= | | | | | | x Well Vol. Factor= | x#vol. to Purge | PurgeVol. | | | | |
| 16.88 - 5.68 = 11.20 | | | | | | x .16 = 1.79 | x 3 = 5.37 | 4.0 | | | | |
| Purge Method: <input checked="" type="checkbox"/> Surface Pump | | | | | | <input type="checkbox"/> ODisp. Tube | <input type="checkbox"/> OWinch | <input type="checkbox"/> ODisp. Bailer(s) | <input type="checkbox"/> OSys Port | | | |
| Comments: DC-1 Dup taken from this well | | | | | | | | | | | | |

- EPA 601
- TPH-G/BTEX HCL
- TPH Diesel
- TOG 5520

TIME/SAMPLE ID

1647 (S-TAP)

| Well ID | Depth to Water | Diam | Cap/Lock | Product Dept | Iridescence | Gal. | Time | Temp *F | pH | E.C. | D.O. | |
|--|----------------|------|----------|--------------|-------------|--------------------------------------|---------------------------------|---|------------------------------------|--------|------|--|
| RW-1 | 5.46 | 6" | OK | Ø | Y (N) | 24 | 1520 | 66.6 | 6.93 | 503/US | 7.2 | |
| Total Depth - Water Level= | | | | | | x Well Vol. Factor= | x#vol. to Purge | PurgeVol. | | | | |
| 21.61 - 5.46 = 16.15 | | | | | | x 1.47 = 23.74 | x 3 = 71.22 | 48 | | | | |
| Purge Method: <input checked="" type="checkbox"/> Surface Pump | | | | | | <input type="checkbox"/> ODisp. Tube | <input type="checkbox"/> OWinch | <input type="checkbox"/> ODisp. Bailer(s) | <input type="checkbox"/> OSys Port | | | |
| Comments: | | | | | | | | | | | | |

- EPA 601
- TPH-G/BTEX HCL
- TPH Diesel
- TOG 5520

TIME/SAMPLE ID

1655 1626

APPENDIX B

LABORATORY REPORT AND CHAIN OF CUSTODY RECORD



Analytical **Technologies, Inc.**

Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.: 510148

October 31, 1995

ALISTO ENGINEERING
1575 TREAT BOULEVARD, SUITE 201
WALNUT CREEK, CA 94598

Project Name: BP SITE#11104/ALAMEDA, CA
Project # : G602065/10-155-051


Attention: BRADY NAGLE

Analytical Technologies, Inc. has received the following sample(s):

| <u>Date Received</u> | <u>Quantity</u> | <u>Matrix</u> |
|----------------------|-----------------|---------------|
| October 14, 1995 | 8 | WATER |

The sample(s) were analyzed with EPA methodology or equivalent methods as specified in the enclosed analytical schedule. The symbol for "less than" indicates a value below the reportable detection limit. If any flags appear next to the analytical data in this report, please see the attached list of flag definitions.

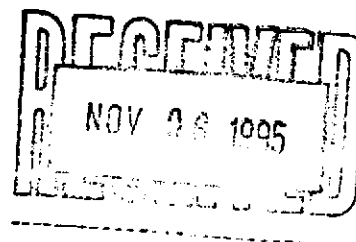
The results of these analyses and the quality control data are enclosed. Please note that the Sample Condition Upon Receipt Checklist is included at the end of this report.



GARY STEWART
VOLATILES SUPERVISOR



FOR ALAN J. KLEINSCHMIDT
LABORATORY MANAGER



SAMPLE CROSS REFERENCE

Client : ALISTO ENGINEERING
 Project # : G602065/10-155-051
 Project Name: BP SITE#11104/ALAMEDA, CA

Report Date: October 31, 1995
 ATI I.D. : 510148

| ATI # | Client Description | Matrix | Date Collected |
|-------|--------------------|--------|----------------|
| 1 | S-1 | WATER | 12-OCT-95 |
| 2 | S-2 | WATER | 12-OCT-95 |
| 3 | S-3 | WATER | 12-OCT-95 |
| 4 | S-4 | WATER | 12-OCT-95 |
| 5 | S-5 | WATER | 12-OCT-95 |
| 6 | S-6 | WATER | 12-OCT-95 |
| 7 | S-7 | WATER | 12-OCT-95 |
| 8 | S-8 | WATER | 12-OCT-95 |

---TOTALS---

| <u>Matrix</u> | <u># Samples</u> |
|---------------|------------------|
| WATER | 8 |

ATI STANDARD DISPOSAL PRACTICE

The sample(s) from this project will be disposed of in twenty-one (21) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

ANALYTICAL SCHEDULE

Client : ALISTO ENGINEERING
Project # : G602065/10-155-051
Project Name: BP SITE#11104/ALAMEDA, CA

ATI I.D.: 510148

| Analysis | Technique/Description |
|--|---|
| MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE) | GC/FLAME ION./PHOTO IONIZATION DETECTOR |

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
 Client : ALISTO ENGINEERING ATI I.D. : 510148
 Project # : G602065/10-155-051
 Project Name: BP SITE#11104/ALAMEDA, CA

| Sample # | Client ID | Matrix | Date Sampled | Date Extracted | Date Analyzed | Dil. Factor |
|----------|-----------|--------|--------------|----------------|---------------|-------------|
| 1 | S-1 | WATER | 12-OCT-95 | N/A | 26-OCT-95 | 1.00 |
| 2 | S-2 | WATER | 12-OCT-95 | N/A | 26-OCT-95 | 1.00 |
| 3 | S-3 | WATER | 12-OCT-95 | N/A | 26-OCT-95 | 1.00 |

| Parameter | Units | 1 | 2 | 3 |
|--------------------------------|-------|----------|----------|----------|
| METHYL T-BUTYL ETHER | UG/L | <5.0 | <5.0 | <5.0 |
| BENZENE | UG/L | <0.50 | <0.50 | <0.50 |
| TOLUENE | UG/L | <0.50 | <0.50 | <0.50 |
| ETHYLBENZENE | UG/L | <0.50 | <0.50 | <0.50 |
| XYLENES (TOTAL) | UG/L | <1.0 | <1.0 | <1.0 |
| FUEL HYDROCARBONS | UG/L | <50 | <50 | <50 |
| HYDROCARBON RANGE | | C6-C12 | C6-C12 | C6-C12 |
| HYDROCARBONS QUANTITATED USING | | GASOLINE | GASOLINE | GASOLINE |
| <u>SURROGATES</u> | | | | |
| TRIFLUOROTOLUENE | % | 97 | 102 | 100 |

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
 Client : ALISTO ENGINEERING ATI I.D. : 510148
 Project # : G602065/10-155-051
 Project Name: BP SITE#11104/ALAMEDA, CA

| Sample # | Client ID | Matrix | Date Sampled | Date Extracted | Date Analyzed | Dil. Factor |
|----------|-----------|--------|--------------|----------------|---------------|-------------|
| 4 | S-4 | WATER | 12-OCT-95 | N/A | 26-OCT-95 | 1.00 |
| 5 | S-5 | WATER | 12-OCT-95 | N/A | 26-OCT-95 | 50.00 |
| 6 | S-6 | WATER | 12-OCT-95 | N/A | 26-OCT-95 | 50.00 |

| Parameter | Units | 4 | 5 | 6 |
|--------------------------------|-------|----------|----------|----------|
| METHYL T-BUTYL ETHER | UG/L | <5.0 | 4300 | 15000 |
| BENZENE | UG/L | <0.50 | 1600 | 3400 |
| TOLUENE | UG/L | <0.50 | 1500 | 310 |
| ETHYLBENZENE | UG/L | <0.50 | 1700 | 1100 |
| XYLENES (TOTAL) | UG/L | <1.0 | 8500 | 3000 |
| FUEL HYDROCARBONS | UG/L | <50 | 30000 | 20000 |
| HYDROCARBON RANGE | | C6-C12 | C6-C12 | C6-C12 |
| HYDROCARBONS QUANTITATED USING | | GASOLINE | GASOLINE | GASOLINE |
| <u>SURROGATES</u> | | | | |
| TRIFLUOROTOLUENE | % | 102 | 106 | 103 |

GAS CHROMATOGRAPHY RESULTS

Test : MOD EPA 8015-CDOHS/8020 (HYDROCARBONS C6-C12/BTXE)
 Client : ALISTO ENGINEERING ATI I.D. : 510148
 Project # : G602065/10-155-051
 Project Name: BP SITE#11104/ALAMEDA, CA

| Sample # | Client ID | Matrix | Date Sampled | Date Extracted | Date Analyzed | Dil. Factor |
|----------|-----------|--------|--------------|----------------|---------------|-------------|
| 7 | S-7 | WATER | 12-OCT-95 | N/A | 26-OCT-95 | 50.00 |
| 8 | S-8 | WATER | 12-OCT-95 | N/A | 26-OCT-95 | 1.00 |

| Parameter | Units | 7 | 8 |
|--------------------------------|-------|----------|----------|
| METHYL T-BUTYL ETHER | UG/L | 14000 | <5.0 |
| BENZENE | UG/L | 3500 | <0.50 |
| TOLUENE | UG/L | 310 | <0.50 |
| ETHYLBENZENE | UG/L | 1100 | <0.50 |
| XYLENES (TOTAL) | UG/L | 3000 | <1.0 |
| FUEL HYDROCARBONS | UG/L | 20000 | <50 |
| HYDROCARBON RANGE | | C6-C12 | C6-C12 |
| HYDROCARBONS QUANTITATED USING | | GASOLINE | GASOLINE |
| <u>SURROGATES</u> | | | |
| TRIFLUOROTOLUENE | % | 105 | 100 |

GAS CHROMATOGRAPHY - QUALITY CONTROL

REAGENT BLANK

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
 Blank I.D. : 37166
 Client : ALISTO ENGINEERING
 Project # : G602065/10-155-051
 Project Name: BP SITE#11104/ALAMEDA, CA

ATI I.D. : 510148
 Date Extracted: N/A
 Date Analyzed : 26-OCT-95
 Dil. Factor : 1.00

| Parameters | Units | Results |
|--------------------------------|-------|----------|
| METHYL T-BUTYL ETHER | UG/L | <5.0 |
| BENZENE | UG/L | <0.50 |
| TOLUENE | UG/L | <0.50 |
| ETHYLBENZENE | UG/L | <0.50 |
| KYLENES (TOTAL) | UG/L | <1.0 |
| FUEL HYDROCARBONS | UG/L | <50 |
| HYDROCARBON RANGE | | C6-C12 |
| HYDROCARBONS QUANTITATED USING | | GASOLINE |
| <u>SURROGATES</u> | | |
| TRIFLUOROTOLUENE | % | 96 |

GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

Page 7

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
 MSMSD # : 79455
 Client : ALISTO ENGINEERING
 Project # : G602065/10-155-051
 Project Name: BP SITE#11104/ALAMEDA, CA

ATI I.D. : 510148
 Date Extracted: N/A
 Date Analyzed : 25-OCT-95
 Sample Matrix : WATER
 REF I.D. : 510121-01

| Parameters | Units | Sample Result | Conc Spike | Spiked Sample | % Rec | Dup Spike | Dup % Rec | RPD |
|------------|-------|---------------|------------|---------------|-------|-----------|-----------|-----|
| BENZENE | UG/L | <0.50 | 5.0 | 5.0 | 100 | 5.0 | 100 | 0 |
| TOLUENE | UG/L | <0.50 | 5.0 | 5.0 | 100 | 5.0 | 100 | 0 |

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
 RPD (Relative % Difference) = (Spiked Sample Result - Duplicate Spike Result)*100/Average Result

GAS CHROMATOGRAPHY - QUALITY CONTROL

BLANK SPIKE

Test : MOD EPA 8015-CDOHS (FUEL HYDROCARBONS/BTXE)
 Blank Spike #: 59631
 Client : ALISTO ENGINEERING
 Project # : G602065/10-155-051
 Project Name : BP SITE#11104/ALAMEDA, CA

ATI I.D. : 510148
 Date Extracted: N/A
 Date Analyzed : 26-OCT-95
 Sample Matrix : WATER

| Parameters | Units | Blank Result | Spiked Sample | Spike Conc. | % Rec |
|------------|-------|--------------|---------------|-------------|-------|
| BENZENE | UG/L | <0.50 | 4.9 | 5.0 | 98 |
| TOLUENE | UG/L | <0.50 | 5.0 | 5.0 | 100 |

% Recovery = (Spike Sample Result - Sample Result)*100/Spike Concentration
 RPD (Relative % Difference) = (Spiked Sample - Blank Result)*100/Average Result

ATI-SanDiego
SAMPLE CONDITION UPON RECEIPT CHECKLIST
 (FOR RE-ACCESSIONS, COMPLETE #7 THRU #9)

| | | | |
|----|---|--|---------------------------|
| 1 | Does this project require special handling according to NFESC Levels C, D, AFCEE or CLP protocols? If yes, complete a) and b) a) pH sample aliquoted: yes /no /na b) Either 1) Record Bottle Lot #'s: Or 2) Attach Sample Kit Request Form(s) | YES | <input type="radio"/> NO |
| 2 | Number of Coolers Received If more than one cooler received attach Multiple Cooler Documentation Form (MCD) Indicate "see MCD" on Item 11 below | 1 (#1155) | |
| 3 | Are custody seals required for this project ? a) are Custody Seals present on Cooler(s) ? If yes, are seals intact ? b) are Custody Seals present on the sample ? If yes, are seals intact ? | YES | <input type="radio"/> N/A |
| | | YES | <input type="radio"/> NO |
| | | YES | NO |
| | | YES | <input type="radio"/> NO |
| | | YES | NO |
| 4 | Is there a Chain-Of-Custody (COC) per cooler ? if not, if a problem is found indicate which samples/test were in the affected cooler on the MCD. | <input checked="" type="radio"/> YES | NO |
| 5 | Is the COC complete per cooler ? Relinquished: <input checked="" type="radio"/> yes/no Requested analysis: <input checked="" type="radio"/> yes/no | <input checked="" type="radio"/> YES | NO |
| 6 | Is the COC in agreement with the samples received? # Samples: <input checked="" type="radio"/> yes/no Sample ID's: <input checked="" type="radio"/> yes/no Date sampled: <input checked="" type="radio"/> yes/no Matrix: <input checked="" type="radio"/> yes/no # containers: <input checked="" type="radio"/> yes/no | <input checked="" type="radio"/> YES | NO |
| 7 | Are the samples preserved correctly? | <input checked="" type="radio"/> YES | NO |
| 8 | Is there enough sample for all the requested analyses? | <input checked="" type="radio"/> YES | NO |
| 9 | Are all samples within holding times for the requested analyses? | <input checked="" type="radio"/> YES | NO |
| 10 | Record cooler temperature. Contact PM if temperature is not 4°C ± 2°C. Is ice present in cooler? | 2.1 °C <input checked="" type="radio"/> YES | NO |
| 11 | Were all sample containers received intact (ie. not broken, leaking, etc.)? | <input checked="" type="radio"/> YES | NO |
| 12 | Are samples requiring no headspace, headspace free? N/A | <input checked="" type="radio"/> YES | NO |
| 13 | Are VOA 1st stickers required? | YES | <input type="radio"/> NO |
| 14 | Are there special comments on the Chain of Custody which require client contact? | YES | <input type="radio"/> N/A |
| 15 | If yes, was ATI Project Manager notified? | YES | NO |

Describe "no" items: _____

Was client contacted? yes / no
 If yes, Date: _____ Name of Person contacted:
 Describe actions taken or client instructions: _____

*Or other representative documents, letters, and/or shipping memos



ATI #510148

CHAIN OF CUSTODY

No.066926

Page 1 of 1

CONSULTANT'S NAME: Alisto Engineering ADDRESS: 1575 Treat Blvd # 201 CITY: W.C. STATE: Ca ZIP CODE: 94599

BP SITE NUMBER: 11104 BP CORNER ADDRESS/CITY: Alameda, Ca CONSULTANT PROJECT NUMBER: 10-155-051

CONSULTANT PROJECT MANAGER: Brady Naylor PHONE NUMBER: (510) 295-1650 FAX NUMBER: 295-1823 CONSULTANT CONTRACT NUMBER: G602065

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

LAB CONTACT: ATI LABORATORY ADDRESS: Sam D. Gray PHONE NUMBER: FAX NO:

SAMPLED BY (Please Print Name): Larry Buenvenida SAMPLED BY (Signature): [Signature] SHIPMENT DATE: SHIPMENT METHOD: Fed Ex

TAT: 24 Hours 48 Hours 1 Week Standard 2 Weeks

ANALYSIS REQUIRED: AIRBILL NUMBER: 618036122

| SAMPLE DESCRIPTION | COLLECTION DATE | MATRIX SOIL/WATER | CONTAINERS | | PRESERVATIVE | COMMENTS |
|--------------------|-----------------|-------------------|------------|-------------|--------------|-------------|
| | | | NO. | TYPE (VOL.) | LAB SAMPLE # | |
| S-1 | 10/12/95 | W | 2 | HCL | 01 | Sample 1411 |
| S-2 | ↓ | ↓ | ↓ | ↓ | 02 | 1531 |
| S-3 | ↓ | ↓ | ↓ | ↓ | 03 | 1550 |
| S-4 | ↓ | ↓ | ↓ | ↓ | 04 | 1610 |
| S-5 | ↓ | ↓ | ↓ | ↓ | 05 | 1626 |
| S-6 | ↓ | ↓ | ↓ | ↓ | 06 | 1647 |
| S-7 | ↓ | ↓ | ↓ | ↓ | 07 | 1655 |
| S-8 | ↓ | ↓ | ↓ | ↓ | 08 | 1400 |

| RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | ADDITIONAL COMMENTS |
|-------------------------------|----------|-------|---------------------------|----------|-------|---------------------|
| <u>[Signature]</u> | 10/12/95 | | <u>[Signature]</u> | 10/12/95 | 15:30 | |
| <u>For Larr Alisto</u> | 10/12/95 | 15:30 | <u>[Signature]</u> / ATI | 10/14/95 | 08:55 | Order # 1155 = 2.1c |