



BP OIL

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ALCO
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March 15, 1994

California Regional Water Quality Control Board
Mr. Eddy So
San Francisco Bay Region
2101 Webster St., Ste. 500
Oakland, CA 94612

RE: BP OIL FACILITY #11120
6400 Dublin Blvd.
Dublin, CA

Attached please find our GROUNDWATER MONITORING AND SAMPLING DATED JAN 19, 1994 for the above referenced facility.

Please call me at (206) 251-0689 with questions regarding this submission.

Respectfully,

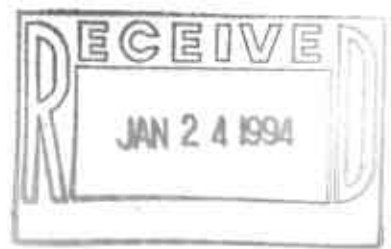
Scott T. Hooton
Group Leader

STH:jc ERM11120

cc: Ms. Eva Chu, Alameda County Health Care Services Agency, 80
Swan Way, Room 200, Oakland, CA 94621

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

Site file



GROUNDWATER MONITORING AND SAMPLING REPORT

See
3/18/94

**BP Oil Company Service Station No. 11120
6400 Dublin Boulevard
Dublin, California**

Project No. 10-170-01-002

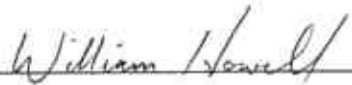
Prepared for:

**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**

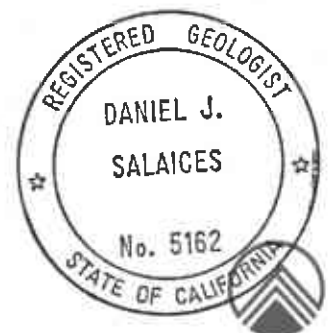
January 19, 1994



**William Howell
Project Manager**



**Dan Salaices
Registered Geologist**



GROUNDWATER MONITORING AND SAMPLING REPORT

BP Oil Company Service Station No. 11120
6400 Dublin Boulevard
Dublin, California

Project No. 10-170-01-002

January 19, 1994

INTRODUCTION

This report presents the results and findings of the November 22, 1993 groundwater monitoring and sampling conducted by Alisto Engineering Group at BP Oil Company Service Station No. 11120, 6400 Dublin Boulevard, Dublin, 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 in reference to mean sea level. The survey data and groundwater elevation measurements collected to date are presented in Table 1.

Before sample collection, each well was purged of 3 casing volumes, while recording field readings of pH, temperature, 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
 BP OIL COMPANY SERVICE STATION NO. 11120
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) | DEPTH TO WATER (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ppb) | TPH-D (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | TOG (ppb) | HVOC (ppb) | LAB |
|----------|------------------------------|----------------------|-----------------------|----------------------------------|-------------|-------------|---------|---------|---------|---------|-----------|------------|------|
| MW-1 | 10/27/92 | 328.96 | 8.19 | 320.77 | ND<50 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | ND<5000 | ND | PACE |
| MW-1 | 04/09/93 | 328.96 | 4.79 | 324.17 | ND<50 | 100 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-1 | 08/25/93 | 328.96 | 6.85 | 322.11 | ND<50 | 70 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-1 | 11/22/93 | 328.96 | 7.38 | 321.58 | ND<50 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-2 | 10/27/92 | 328.50 | 7.64 | 320.86 | ND<50 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-2 | 04/09/93 | 328.50 | 4.12 | 324.38 | ND<50 | 80 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-2 | 08/25/93 | 328.50 | 6.31 | 322.19 | ND<50 | 70 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-2 | 11/22/93 | 328.50 | 7.12 | 321.38 | ND<50 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-3 | 10/27/92 | 329.36 | 8.43 | 320.93 | 210 | ND<50 | 3 | 0.7 | 0.9 | 30 | --- | --- | PACE |
| MW-3 | 04/09/93 | 329.36 | 4.90 | 324.46 | 400 | 260 | 6.1 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-3 | 08/25/93 | 329.36 | 7.13 | 322.23 | 2000 | 440 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-3 | 11/22/93 | 329.36 | 7.60 | 321.76 | 1800 | --- | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | --- | --- | PACE |
| MW-4 | 10/27/92 | 329.45 | 8.61 | 320.84 | 2300 | 190 | 23 | 54 | 50 | 320 | --- | --- | PACE |
| MW-4 | 04/09/93 | 329.45 | 5.25 | 324.20 | 1600 | 500 | 78 | 3.5 | 68 | 1.0 | --- | --- | PACE |
| MW-4 | 08/25/88 | 329.45 | 7.32 | 322.13 | 1800 | 380 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-1 (c) | 08/25/93 | --- | --- | --- | 1600 | --- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-4 | 11/22/93 | 329.45 | 7.83 | 321.62 | 610 | --- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| QC-1 (c) | 11/22/93 | --- | --- | --- | 1700 | --- | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 | --- | --- | PACE |
| MW-5 | 04/09/93 | 329.60 | 5.18 | 324.42 | ND<50 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-5 | 08/25/93 | 329.60 | 7.28 | 322.32 | ND<50 | 70 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-5 | 11/22/93 | 329.60 | 7.82 | 321.78 | ND<50 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-6 | 04/09/93 | 329.55 | 5.37 | 324.18 | ND<50 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-6 | 08/25/93 | 329.55 | 7.42 | 322.13 | ND<50 | 170 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |
| MW-6 | 11/22/93 | 329.55 | 7.93 | 321.62 | ND<50 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | --- | --- | PACE |

TABLE 1 - SUMMARY OF RESULTS OF GROUNDWATER
 BP OIL COMPANY SERVICE STATION NO. 11120
 6400 DUBLIN BOULEVARD, DUBLIN, CALIFORNIA

ALISTO PROJECT NO. 10-170

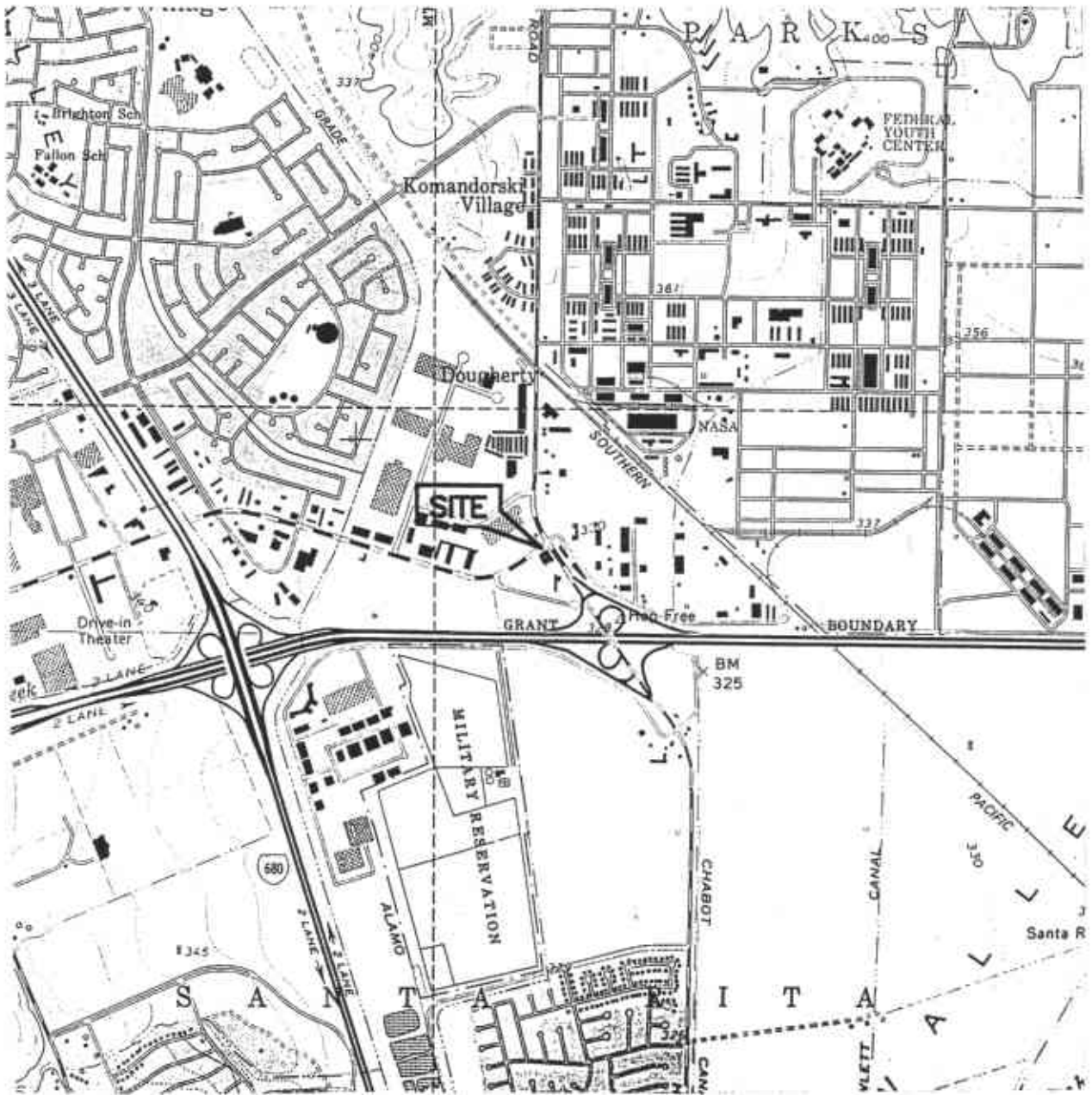
| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) | DEPTH TO WATER (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ppb) | TPH-D (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | TOG (ppb) | HVOC (ppb) | LAB |
|----------|------------------------------|----------------------|-----------------------|----------------------------------|-------------|-------------|---------|---------|---------|---------|-----------|------------|------|
| MW-7 | 04/09/93 | 329.49 | 5.36 | 324.13 | ND<50 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- | PACE |
| MW-7 | 08/25/93 | 329.49 | 7.44 | 322.05 | ND<50 | 150 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- | PACE |
| MW-7 | 11/22/93 | 329.49 | 7.92 | 321.57 | ND<50 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- | PACE |
| QC-2 (d) | 08/25/93 | -- | -- | -- | ND<50 | -- | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | -- | -- | PACE |
| QC-2 (d) | 11/22/93 | -- | -- | -- | 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
 ppb Parts per billion
 ND Not detected above reported detection limit
 -- Not analyzed/available
 PACE Pace, Inc.

NOTES:

- (a) Top of casing elevations surveyed to an arbitrary datum.
- (b) Groundwater elevations relative to an arbitrary datum.
- (c) Blind duplicate.
- (d) Travel blank.



SOURCE:
USGS MAP, DUBLIN QUADRANGLE,
CALIFORNIA, 7.5 MINUTE SERIES, 1961,
PHOTOREVISED 1980.

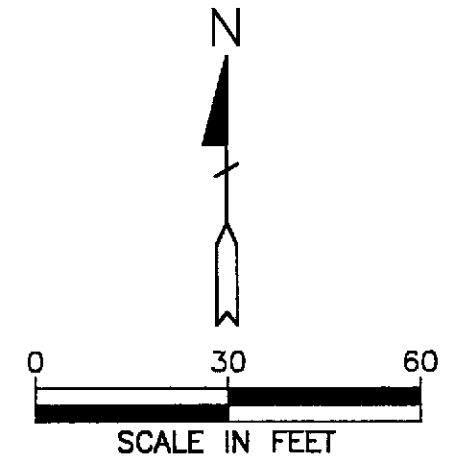
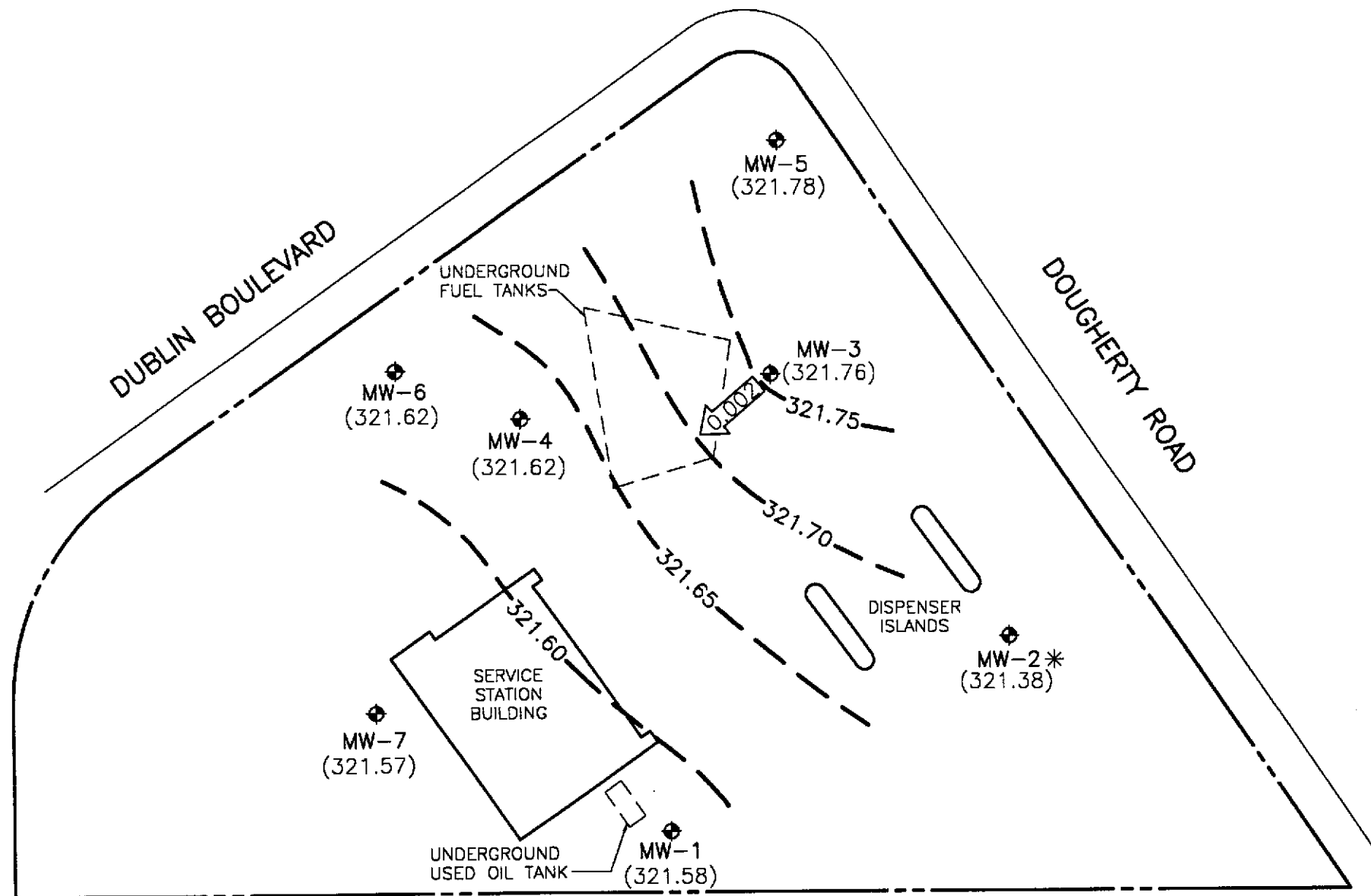
FIGURE 1

SITE VICINITY MAP

BP OIL SERVICE STATION NO. 11120
6400 DUBLIN BOULEVARD
DUBLIN, CALIFORNIA
PROJECT NO. 10-170

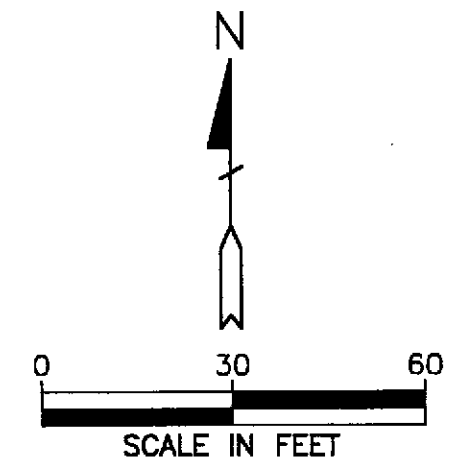
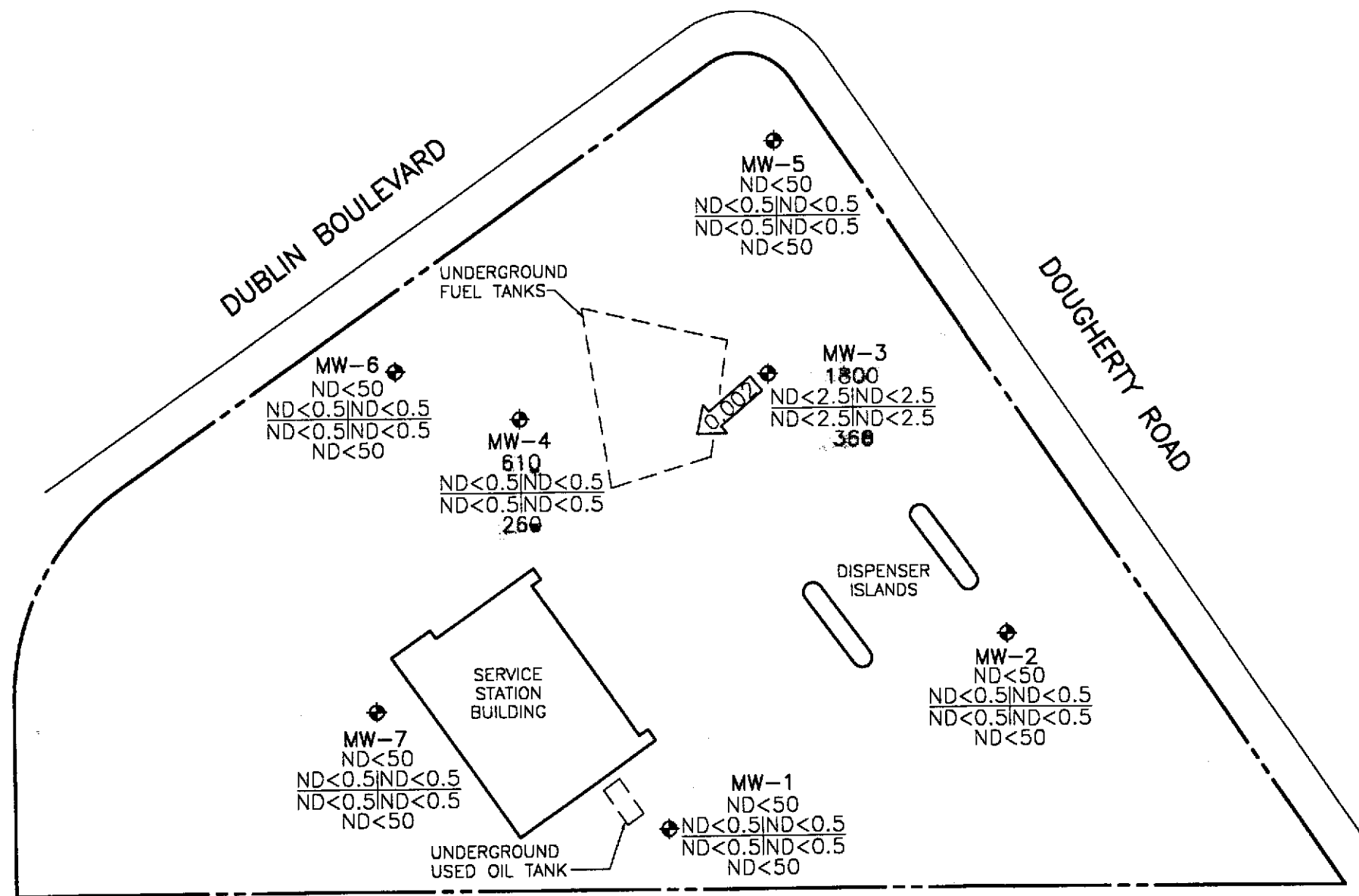


ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA



- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - (321.76) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 321.75 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL (CONTOUR INTERVAL - 0.05 FOOT)
 - ← 0.002 → CALCULATED GROUNDWATER GRADIENT DIRECTION AND MAGNITUDE IN FOOT PER FOOT
 - * ANOMALOUS DATA NOT USED IN PREPARING CONTOURS

FIGURE 2
POTENTIOMETRIC GROUNDWATER ELEVATION CONTOUR MAP
NOVEMBER 22, 1993
 BP OIL SERVICE STATION NO. 11120
 6400 DUBLIN BOULEVARD
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-170



LEGEND

- ◆ GROUNDWATER MONITORING WELL
- TPH-G
B | T
E | X
CONCENTRATION OF CONSTITUENTS
IN PARTS PER BILLION
- TPH-G
TOTAL PETROLEUM
HYDROCARBONS AS GASOLINE
- B
BENZENE
- T
TOLUENE
- E
ETHYLBENZENE
- X
TOTAL XYLENES
- ND
NOT DETECTED ABOVE REPORTED
DETECTION LIMIT
- ←0.0021
CALCULATED GROUNDWATER
GRADIENT DIRECTION AND
MAGNITUDE IN FOOT PER FOOT

FIGURE 3
CONCENTRATIONS OF PETROLEUM
HYDROCARBONS IN GROUNDWATER
NOVEMBER 22, 1993
 BP OIL SERVICE STATION NO. 11120
 6400 DUBLIN BOULEVARD
 DUBLIN, CALIFORNIA
 PROJECT NO. 10-170



10170E-H-0100 1-12-94 RW 1-30

APPENDIX A
WATER SAMPLING FIELD SURVEY FORMS

ALISTO ENGINEERING GROUP GROUNDWATER MONITORING

Client: BP
 Alisto Project No: 10-170-01/002
 Service Station No: 11120

Date: 11/22/93
 Field Personnel: LCS
 Site Address: Dublin, GA

FIELD ACTIVITY:

- Groundwater Monitoring
- Groundwater Sampling
- Well Development

QUALITY CONTROL SAMPLES:

- MW-4 QC-1 Sample Duplicate (Well ID)
- QC-2 Trip Blank
- QC-3 Rinsate Blank

| Well ID | Well Diam | Order Measured/Sampled | Total Depth | Depth to Water | Depth to Product | Product Thickness | Comments |
|---------|-----------|------------------------|-------------|----------------|------------------|-------------------|----------|
| x MW-1 | 2" | 5 | 18.20 | 7.38 | Ø | Ø | |
| ^ MW-2 | 1" | 4 | 18.25 | 7.12 | ↓ | ↓ | |
| x MW-3 | 1" | 6 | 18.61 | 7.60 | ↓ | ↓ | |
| x MW-4 | 1" | 7 | 18.15 | 7.83 | ↓ | ↓ | |
| x MW-5 | ↓ | 1 | 21.35 | 7.82 | ↓ | ↓ | |
| x MW-6 | 4" | 3 | 19.25 | 7.93 | ↓ | ↓ | |
| x MW-7 | 2" | 2 | 20.25 | 7.92 | ↓ | ↓ | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Notes:

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: BP
 Alisto Project No: 10-170
 Service Station No: 1120

Date: 11/22/93
 Field Personnel: LCB
 Address: Dublin, GA

Well ID: MW-1 Field Activity: Well Development Well Sampling Product Bailing

Casing Diameter:

- 2 Inch (0.16 Gal/foot)
- 3 Inch (0.37 Gal/foot)
- 4 Inch (0.65 Gal/foot)
- 4.5 Inch (0.83 Gal/foot)
- 6 Inch (1.47 Gal/foot)

Purge Method:

- Pump (dispos. Poly Tubing)
- Disposable Bailers
- Other
- 1.66 PVC Standard Bailer
- 3.50 PVC Standard Bailer

Well Data:

- Depth to Product
- Product Thickness
- 7.38 Depth to Water

Sampling Method:

- Disposable Bailer
- Pump

Decontamination Method:

- Triple Rinse (Liquinox)
- Steam Cleaned

Calculated Purge Volume

$$\frac{18.20 - 7.38}{10.82 \text{ ft}} \times .16 \text{ Gal/Ft} = 1.73 \text{ Gal} \times 3 = 5.19$$

| | | | | | | |
|---------------------|----------------|--------------|-------------------|------------|---------------|--------------|
| Total Depth of Well | Depth to Water | Water Column | Conversion Factor | Casing Vol | Vols to Purge | Total Volume |
|---------------------|----------------|--------------|-------------------|------------|---------------|--------------|

Well Development/Sampling Parameters

| Time | Temp °F | pH | Cond. (umhos/cm) $\times 1000$ | Purge Vol (Gal) | Comments/Turbidity | Analysis Required | Container Type | Preserv |
|------|---------|------|--------------------------------|-----------------|--------------------|--|----------------|--------------------------------|
| 1356 | 66.4 | 8.36 | 1.26 | 1 | Lt. Brown | <input checked="" type="checkbox"/> TPH-G/BTEX | VOA | HCL |
| 1359 | 67.2 | 8.39 | 1.02 | 2 | | <input checked="" type="checkbox"/> TPH-Diesel | Amber Liter | Solvent Rinsed |
| 1401 | 67.8 | 8.33 | .98 | 3 | | EPA 601 | VOA | |
| 1403 | 67.3 | 8.26 | .97 | 4 | | TOG 5520BF | Amber Liter | H ₂ SO ₄ |
| 1405 | 67.0 | 8.22 | .95 | 5.25 | ↓ | | | |

Begin 1353 Stop 1405 Sampled 1410

Dissolved O₂
 Begin 7.3 PPM
 End 3.4 PPM

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: BP
 Alisto Project No: 10-170
 Service Station No: 1120

Date: 11/22/93
 Field Personnel: LG
 Address: Dublin, GA

Well ID: MW-2 Field Activity: Well Development Well Sampling Product Bailing

Casing Diameter:

- 2 Inch (0.16 Gal/foot)
 3 Inch (0.37 Gal/foot)
 4 Inch (0.65 Gal/foot)
 4.5 Inch (0.83 Gal/foot)
 6 Inch (1.47 Gal/foot)

Purge Method:

- Pump (dispos. Poly Tubing)
 Disposable Bailers
 Other
 1.66 PVC Standard Bailer
 3.50 PVC Standard Bailer

Well Data:

- Depth to Product
 Product Thickness
 7.12 Depth to Water

Sampling Method:

- Disposable Bailer
 Pump

Decontamination Method:

- Triple Rinse (Liquinox)
 Steam Cleaned

Calculated Purge Volume

$$\frac{17.25}{7.12} = 2.42 \text{ ft} \times 1.16 \text{ Gal/Ft} = 2.81 \text{ Gal} \times 3 = 8.43 \text{ Gal}$$

Total Depth of Well Depth to Water Water Column Conversion Factor Casing Vol Vols to Purge Total Volume

Well Development/Sampling Parameters

| Time | Temp °F | pH | Cond. (umhos/cm) $\times 1000$ | Purge Vol (Gal) | Comments/Turbidity | Analysis Required | Container Type | Preserv |
|------|---------|------|--------------------------------|-----------------|--------------------|--|----------------|--------------------------------|
| 1335 | 68.5 | 8.56 | 1.00 | 1 | Lt. Brown | <input checked="" type="checkbox"/> TPH-G/BTEX | VOA | HCL |
| 1337 | 69.0 | 8.21 | 1.29 | 2 | ↓ | <input checked="" type="checkbox"/> TPH-Diesel | Amber Liter | Solvent Rinsed |
| 1340 | 69.8 | 8.03 | 1.56 | 3 | | EPA 601 | VOA | |
| 1342 | 68.4 | 7.96 | 1.58 | 4 | | TOG 5520BF | Amber Liter | H ₂ SO ₄ |
| 1344 | 68.2 | 7.92 | 1.57 | 550 | | | | |

Begin 1333

Stop 1344

Sampled 1349

Dissolved O₂
 Begin 4.4 PPM
 End 2.9 PPM

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: BP
 Alisto Project No: 10-170
 Service Station No: 1120

Date: 11/22/93
 Field Personnel: LCB
 Address: Dublin, CA

Well ID: MW-3 Field Activity: Well Development Well Sampling Product Bailing

Casing Diameter:

- 2 Inch (0.16 Gal/foot)
 3 Inch (0.37 Gal/foot)
 4 Inch (0.65 Gal/Foot)
 4.5 Inch (0.83 Gal/foot)
 6 Inch (1.47 Gal/foot)

Purge Method:

- Pump (dispos. Poly Tubing)
 Disposable Bailers
 Other
 1.66 PVC Standard Bailer
 3.50 PVC Standard Bailer

Well Data:

- Depth to Product
 Product Thickness
7.60 Depth to Water

Sampling Method:

- Disposable Bailer
 Pump

Decontamination Method:

- Triple Rinse (Liquinox)
 Steam Cleaned

Calculated Purge Volume

$$\frac{18.61 - 7.60}{1.76} = 11.01 \text{ ft} \times .16 \text{ Gal/Ft} = 1.76 \text{ Gal} \times 3 = 5.28$$

Total Depth of Well Depth to Water Water Column Conversion Factor Casing Vol Vols to Purge Total Volume

Well Development/Sampling Parameters

| Time | Temp °F | pH | Cond. (umhos/cm) X 1000 | Purge Vol (Gal) | Comments/Turbidity | Analysis Required | Container Type | Preserv |
|------|---------|------|-------------------------|-----------------|--------------------|-------------------|----------------|--------------------------------|
| 1418 | 65.3 | 8.68 | .63 | 1 | Lt Brown | X TPH-G/BTEX | VOA | HCL |
| 1420 | 67.7 | 8.23 | .70 | 2 | | X TPH-Diesel | Amber Liter | Solvent Rinsed |
| 1422 | 68.4 | 8.15 | .73 | 3 | | EPA 601 | VOA | |
| 1424 | 68.1 | 8.06 | .75 | 4.50 | | TOG 5520BF | Amber Liter | H ₂ SO ₄ |
| 1426 | 67.7 | 8.00 | .73 | 5.75 | ↓ | | | |

Begin 1415

Stop 1426

Sample 1431

Dissolved O₂
 Begin 4.0 PPM
 End 3.2 PPM

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: BP
 Alisto Project No: 10-170
 Service Station No: 11120

Date: 11/22/93
 Field Personnel: LEB
 Address: Dublin, Ga

Well ID: MW-4 Field Activity: Well Development Well Sampling Product Bailing

Casing Diameter:

- 2 Inch (0.16 Gal/foot)
- 3 Inch (0.37 Gal/foot)
- 4 Inch (0.65 Gal/foot)
- 4.5 Inch (0.83 Gal/foot)
- 6 Inch (1.47 Gal/foot)

Purge Method:

- Pump (dispos. Poly Tubing)
- Disposable Bailers
- Other
- 1.66 PVC Standard Bailer
- 3.50 PVC Standard Bailer

Well Data:

- Depth to Product
- Product Thickness
- 7.83 Depth to Water

Sampling Method:

- Disposable Bailer
- Pump

Decontamination Method:

- Triple Rinse (Liquinox)
- Steam Cleaned

Calculated Purge Volume

18.15 - 7.83 = 10.32 ft X .16 Gal/Ft = 1.65 Gal X 3 = 4.95

| | | | | | | |
|---------------------|----------------|--------------|-------------------|------------|---------------|--------------|
| Total Depth of Well | Depth to Water | Water Column | Conversion Factor | Casing Vol | Vols to Purge | Total Volume |
|---------------------|----------------|--------------|-------------------|------------|---------------|--------------|

Well Development/Sampling Parameters

| Time | Temp °F | pH | Cond. (umhos/cm) | Purge Vol (Gal) | Comments/Turbidity | Analysis Required | Container Type | Preserv |
|------|---------|------|------------------|-----------------|--------------------|-------------------|----------------|--------------------------------|
| 1450 | 69.1 | 8.34 | .84 | 1 | Lt. Brown | X TPH-G/BTEX | VOA | HCL |
| 1455 | 70.3 | 8.22 | .79 | 2 | | X TPH-Diesel | Amber Liter | Solvent Rinsed |
| 1500 | 70.5 | 8.16 | .79 | 3 | | EPA 601 | VOA | |
| 1505 | 70.0 | 8.07 | .76 | 4 | | TOG 5520BF | Amber Liter | H ₂ SO ₄ |
| 1505 | 69.7 | 8.01 | .73 | 5 | ↓ | | | |

Begin 1445

stop 1505 Sampled 1510

QC-1 taken from this well

Dissolved O₂
 Begin 3.6 PPM
 End 2.8 PPM

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: BP
 Alisto Project No: 10-170
 Service Station No: 11120

Date: 11/22/93
 Field Personnel: LCB
 Address: Dublin, GA

Well ID: MW-5 Field Activity: Well Development Well Sampling Product Bailing

Casing Diameter:

- 2 Inch (0.16 Gal/foot)
- 3 Inch (0.37 Gal/foot)
- 4 Inch (0.65 Gal/foot)
- 4.5 Inch (0.83 Gal/foot)
- 6 Inch (1.47 Gal/foot)

Purge Method:

- Pump (dispos. Poly Tubing)
- Disposable Bailers
- Other
- 1.66 PVC Standard Bailer
- 3.50 PVC Standard Bailer

Well Data:

- Depth to Product
- Product Thickness
- 7.82 Depth to Water

Sampling Method:

- Disposable Bailer
- Pump

Decontamination Method:

- Triple Rinse (Liquinox)
- Steam Cleaned

Calculated Purge Volume

21.35 - 7.82 = 13.53 ft X .16 Gal/Ft = 2.16 Gal X 3 = 6.48

Total Depth of Well Depth to Water Water Column Conversion Factor Casing Vol Vols to Purge Total Volume

Well Development/Sampling Parameters

| Time | Temp °F | pH | Cond. (umhos/cm) | Purge Vol (Gal) | Comments/Turbidity | Analysis Required | Container Type | Preserv |
|------|---------|------|------------------|-----------------|--------------------|--|----------------|--------------------------------|
| 1250 | 69.2 | 8.17 | .81 | 1.50 | Lt. Brown | <input checked="" type="checkbox"/> TPH-G/BTEX | VOA | HCL |
| 1252 | 69.9 | 8.11 | .66 | 2.75 | | <input checked="" type="checkbox"/> TPH-Diesel | Amber Liter | Solvent Rinsed |
| 1254 | 70.1 | 8.06 | .63 | 4.00 | | EPA 601 | VOA | |
| 1256 | 70.0 | 8.01 | .62 | 5.25 | | TOG 5520BF | Amber Liter | H ₂ SO ₄ |
| 1258 | 69.9 | 7.98 | .62 | 6.50 | ↓ | | | |

Begin 1248

Stop 1258

Sampled 1303

Dissolved O₂
 Begin 3.5 PPM
 End 2.5 PPM

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: BP
 Alisto Project No: 10-170
 Service Station No: 11120

Date: 11/22/93
 Field Personnel: LCB
 Address: Dublin, GA

Well ID: MW-6 Field Activity: Well Development Well Sampling Product Bailing

Casing Diameter:

- 2 Inch (0.16 Gal/foot)
- 3 Inch (0.37 Gal/foot)
- 4 Inch (0.65 Gal/foot)
- 4.5 Inch (0.83 Gal/foot)
- 6 Inch (1.47 Gal/foot)

Purge Method:

- Pump (dispos. Poly Tubing)
- Disposable Bailers
- Other
- 1.66 PVC Standard Bailer
- 3.50 PVC Standard Bailer

Well Data:

- Depth to Product
- Product Thickness
- 7.93 Depth to Water

Sampling Method:

- Disposable Bailer
- Pump

Decontamination Method:

- Triple Rinse (Liquinox)
- Steam Cleaned

Calculated Purge Volume

$$\frac{19.25 - 7.93}{11.32 \text{ ft} \times 0.65 \text{ Gal/Ft}} = 7.36 \text{ Gal} \times 3 = 22.08$$

Total Depth of Well Depth to Water Water Column Conversion Factor Casing Vol Vols to Purge Total Volume

Well Development/Sampling Parameters

| Time | Temp °F | pH | Cond. (umhos/cm) | Purge Vol (Gal) | Comments/Turbidity | Analysis Required | Container Type | Preserv |
|------|---------|------|------------------|-----------------|--------------------|-------------------|----------------|--------------------------------|
| 1311 | 71.0 | 8.44 | .85 | 4 | clear | TPH-G/BTEX | VOA | HCL |
| 1315 | 71.3 | 8.28 | .81 | 9 | ↓ | TPH-Diesel | Amber Liter | Solvent Rinsed |
| 1318 | 70.9 | 8.17 | .80 | 13 | | EPA 601 | VOA | |
| 1321 | 70.6 | 8.12 | .78 | 17 | | TOG 5520BP | Amber Liter | H ₂ SO ₄ |
| 1324 | 70.4 | 8.09 | .78 | 22.25 | | | | |

Begin 1307

Stop 1324

Sampled 1329

Dissolved O₂

Begin 6.6 PPM

End 3.1 PPM

ALISTO ENGINEERING GROUP

Groundwater Development and Sampling Form

Client: BP
 Alisto Project No: 10-170
 Service Station No: 1120

Date: 11/22/93
 Field Personnel: LB
 Address: Dublin, GA

Well ID: MW-7 Field Activity: Well Development Well Sampling Product Bailing

Casing Diameter:

- 2 Inch (0.16 Gal/foot)
 3 Inch (0.37 Gal/foot)
 4 Inch (0.65 Gal/foot)
 4.5 Inch (0.83 Gal/foot)
 6 Inch (1.47 Gal/foot)

Purge Method:

- Pump (dispos. Poly Tubing)
 Disposable Bailers
 Other
 1.66 PVC Standard Bailer
 3.50 PVC Standard Bailer

Well Data:

- Depth to Product
 Product Thickness
7.92 Depth to Water

Sampling Method:

- Disposable Bailer
 Pump

Decontamination Method:

- Triple Rinse (Liquinox)
 Steam Cleaned

Calculated Purge Volume

$\frac{20.25 - 7.92}{12.33 \text{ ft}} \times 1.66 \text{ Gal/Ft} = 1.97 \text{ Gal} \times 3 = 5.91$

Total Depth of Well Depth to Water Water Column Conversion Factor Casing Vol Vols to Purge Total Volume

Well Development/Sampling Parameters

| Time | Temp °F | pH | Cond. (umhos/cm) <input checked="" type="checkbox"/> 1000 | Purge Vol (Gal) | Comments/ Turbidity | Analysis Required | Container Type | Preserv |
|------|---------|------|---|-----------------|------------------------|--|----------------|--------------------------------|
| 1230 | 69.5 | 7.85 | .99 | 1.50 | clear | <input checked="" type="checkbox"/> TPH-G/BTEX | VOA | HCL |
| 1232 | 69.2 | 7.80 | .92 | 2.50 | ↓ | <input checked="" type="checkbox"/> TPH-Diesel | Amber Liter | Solvent Rinsed |
| 1234 | 69.2 | 7.76 | .91 | 3.50 | | EPA 601 | VOA | |
| 1236 | 69.0 | 7.72 | .90 | 4.50 | | TOG 5520BF | Amber Liter | H ₂ SO ₄ |
| 1238 | 68.9 | 7.69 | .89 | 6.00 | | | | |

Begin 1228

Stop 1238 Sampled 1243

Dissolved O₂
 Begin 3.3 PPM
 End 2.3 PPM

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

December 02, 1993
PACE Project Number: 431123505

Attn: Mr. Bill Howell

Client Reference: BP Station # 11120

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

70 0198437
11/22/93
11/23/93
QC-2

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):

| | | | | |
|--|------|-----|----|----------|
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 50 | - | 11/30/93 |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): | | | | 11/30/93 |
| Benzene | ug/L | 0.5 | ND | 11/30/93 |
| Toluene | ug/L | 0.5 | ND | 11/30/93 |
| Ethylbenzene | ug/L | 0.5 | ND | 11/30/93 |
| Xylenes, Total | ug/L | 0.5 | ND | 11/30/93 |

Mr. Bill Howell
 Page 2

December 02, 1993
 PACE Project Number: 431123505

Client Reference: BP Station # 11120

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

70 0198445
 11/22/93
 11/23/93
 QC-1

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):

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

PURGEABLE AROMATICS (BTXE BY EPA 8020M):

Benzene ug/L

Toluene ug/L

Ethylbenzene ug/L

Xylenes, Total ug/L

| | |
|-----|----------|
| - | 11/28/93 |
| 250 | 1700 |
| - | 11/28/93 |
| 2.5 | ND |
| 2.5 | ND |
| 2.5 | ND |
| 2.5 | ND |
| 2.5 | ND |

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 3

December 02, 1993
 PACE Project Number: 431123505

Client Reference: BP Station # 11120

PACE Sample Number: 70 0198453
 Date Collected: 11/22/93
 Date Received: 11/23/93
 Client Sample ID: MW-7

| <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 | 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 |
| EXTRACTABLE FUELS EPA 3510/8015 | | | |
| Extractable Fuels, as Diesel | mg/L | 0.05 | ND |
| Date Extracted | | | 11/24/93 |

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 4

December 02, 1993
 PACE Project Number: 431123505

Client Reference: BP Station # 11120

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

70 0198461
 11/22/93
 11/23/93
 MW-5

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

| | | | | |
|--|------|------|----------|----------|
| PURGEABLE FUELS AND AROMATICS | | | | |
| TOTAL FUEL HYDROCARBONS, (LIGHT): | | | | |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 50 | - | 11/28/93 |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): | | | | |
| Benzene | ug/L | 0.5 | ND | 11/28/93 |
| Toluene | ug/L | 0.5 | ND | 11/28/93 |
| Ethylbenzene | ug/L | 0.5 | ND | 11/28/93 |
| Xylenes, Total | ug/L | 0.5 | ND | 11/28/93 |
| EXTRACTABLE FUELS EPA 3510/8015 | | | | |
| Extractable Fuels, as Diesel | mg/L | 0.05 | 0.05 | 11/30/93 |
| Date Extracted | | | 11/24/93 | |

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 5

December 02, 1993
 PACE Project Number: 431123505

Client Reference: BP Station # 11120

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

70 0198470
 11/22/93
 11/23/93
 MW-6

| <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

- 11/28/93
 50 ND 11/28/93

PURGEABLE AROMATICS (BTXE BY EPA 8020M):

Benzene ug/L

- 11/28/93
 0.5 ND 11/28/93

Toluene ug/L

0.5 ND 11/28/93

Ethylbenzene ug/L

0.5 ND 11/28/93

Xylenes, Total ug/L

0.5 ND 11/28/93

EXTRACTABLE FUELS EPA 3510/8015

Extractable Fuels, as Diesel mg/L

0.05 ND 11/30/93
 11/24/93

Date Extracted

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 6

December 02, 1993
 PACE Project Number: 431123505

Client Reference: BP Station # 11120

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

70 0198488
 11/22/93
 11/23/93
 MW-2

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

| | | | | |
|--|------|-----|----|----------|
| TOTAL FUEL HYDROCARBONS, (LIGHT): | | | - | 11/28/93 |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 50 | ND | 11/28/93 |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): | | | - | 11/28/93 |
| Benzene | ug/L | 0.5 | ND | 11/28/93 |
| Toluene | ug/L | 0.5 | ND | 11/28/93 |
| Ethylbenzene | ug/L | 0.5 | ND | 11/28/93 |
| Xylenes, Total | ug/L | 0.5 | ND | 11/28/93 |

EXTRACTABLE FUELS EPA 3510/8015

| | | | | |
|------------------------------|------|------|----------|----------|
| Extractable Fuels, as Diesel | mg/L | 0.05 | ND | 11/30/93 |
| Date Extracted | | | 11/24/93 | |

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 7

December 02, 1993
 PACE Project Number: 431123505

Client Reference: BP Station # 11120

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

70 0198496
 11/22/93
 11/23/93
 MW-1

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

| | | | | |
|--|------|-----|----|----------|
| TOTAL FUEL HYDROCARBONS, (LIGHT): | | | - | 11/28/93 |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 50 | ND | 11/28/93 |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): | | | - | 11/28/93 |
| Benzene | ug/L | 0.5 | ND | 11/28/93 |
| Toluene | ug/L | 0.5 | ND | 11/28/93 |
| Ethylbenzene | ug/L | 0.5 | ND | 11/28/93 |
| Xylenes, Total | ug/L | 0.5 | ND | 11/28/93 |

EXTRACTABLE FUELS EPA 3510/8015
 Extractable Fuels, as Diesel
 Date Extracted

mg/L 0.05 ND
 11/24/93

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 8

December 02, 1993
 PACE Project Number: 431123505

Client Reference: BP Station # 11120

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

70 0198500
 11/22/93
 11/23/93
 MW-3

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

| | | | | |
|--|------|------|----------|----------|
| PURGEABLE FUELS AND AROMATICS | | | | |
| TOTAL FUEL HYDROCARBONS, (LIGHT): | | | - | 11/28/93 |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 250 | 1800 | 11/28/93 |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): | | | - | 11/28/93 |
| Benzene | ug/L | 2.5 | ND | 11/28/93 |
| Toluene | ug/L | 2.5 | ND | 11/28/93 |
| Ethylbenzene | ug/L | 2.5 | ND | 11/28/93 |
| Xylenes, Total | ug/L | 2.5 | ND | 11/28/93 |
| EXTRACTABLE FUELS EPA 3510/8015 | | | | |
| Extractable Fuels, as Diesel | mg/L | 0.05 | 0.36 | 11/30/93 |
| Date Extracted | | | 11/24/93 | |

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 9

December 02, 1993
 PACE Project Number: 431123505

Client Reference: BP Station # 11120

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

70 0198518
 11/22/93
 11/23/93
 MW-4

Units MDL _____ DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

| | | | | |
|--|------|-----|-----|----------|
| TOTAL FUEL HYDROCARBONS, (LIGHT): | | | - | 11/28/93 |
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 50 | 610 | 11/28/93 |
| PURGEABLE AROMATICS (BTXE BY EPA 8020M): | | | - | 11/28/93 |
| Benzene | ug/L | 0.5 | ND | 11/28/93 |
| Toluene | ug/L | 0.5 | ND | 11/28/93 |
| Ethylbenzene | ug/L | 0.5 | ND | 11/28/93 |
| Xylenes, Total | ug/L | 0.5 | ND | 11/28/93 |

EXTRACTABLE FUELS EPA 3510/8015

| | | | | |
|------------------------------|------|------|----------|----------|
| Extractable Fuels, as Diesel | mg/L | 0.05 | 0.26 | 11/30/93 |
| Date Extracted | | | 11/24/93 | |

These data have been reviewed and are approved for release.



Darrell C. Cain
 Regional Director

Mr. Bill Howell
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FOOTNOTES
for pages 1 through 9

December 02, 1993
PACE Project Number: 431123505

Client Reference: BP Station # 11120

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

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 11

QUALITY CONTROL DATA

December 02, 1993
 PACE Project Number: 431123505

Client Reference: BP Station # 11120

EXTRACTABLE FUELS EPA 3510/8015

Batch: 70 26689

Samples: 70 0198453, 70 0198461, 70 0198470, 70 0198488, 70 0198496
 70 0198500, 70 0198518

METHOD BLANK:

| Parameter | Units | MDL | Method Blank |
|------------------------------|-------|------|--------------|
| Extractable Fuels, as Diesel | mg/L | 0.05 | ND |

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

| Parameter | Units | MDL | Reference Value | Recv | Dupl Recv | RPD |
|------------------------------|-------|------|-----------------|------|-----------|-----|
| Extractable Fuels, as Diesel | mg/L | 0.05 | 1.00 | 76% | 81% | 6% |

Mr. Bill Howell
 Page 12

QUALITY CONTROL DATA

December 02, 1993
 PACE Project Number: 431123505

Client Reference: BP Station # 11120

PURGEABLE FUELS AND AROMATICS

Batch: 70 26668

Samples: 70 0198445, 70 0198453, 70 0198461, 70 0198470, 70 0198488
 70 0198496, 70 0198500, 70 0198518

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 |

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

| Parameter | Units | MDL | Reference Value | Recv | Dupl Recv | RPD |
|--|-------|-----|-----------------|------|-----------|-----|
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 50 | 1000 | 98% | 97% | 1% |
| Benzene | ug/L | 0.5 | 100 | 101% | 101% | 0% |
| Toluene | ug/L | 0.5 | 100 | 102% | 101% | 0% |
| Ethylbenzene | ug/L | 0.5 | 100 | 102% | 101% | 0% |
| Xylenes, Total | ug/L | 0.5 | 300 | 99% | 99% | 0% |

REPORT OF LABORATORY ANALYSIS

Mr. Bill Howell
 Page 13

QUALITY CONTROL DATA

December 02, 1993
 PACE Project Number: 431123505

Client Reference: BP Station # 11120

PURGEABLE FUELS AND AROMATICS

Batch: 70 26692
 Samples: 70 0198437

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 |

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

| Parameter | Units | MDL | Reference Value | Recv | Dupl Recv | RPD |
|--|-------|-----|-----------------|------|-----------|-----|
| Purgeable Fuels, as Gasoline (EPA 8015M) | ug/L | 50 | 1000 | 101% | 99% | 2% |
| Benzene | ug/L | 0.5 | 40.0 | 78% | 82% | 5% |
| Toluene | ug/L | 0.5 | 40.0 | 87% | 89% | 2% |
| Ethylbenzene | ug/L | 0.5 | 40.0 | 90% | 88% | 2% |
| Xylenes, Total | ug/L | 0.5 | 120 | 94% | 90% | 4% |

Mr. Bill Howell
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FOOTNOTES
for pages 11 through 13

December 02, 1993
PACE Project Number: 431123505

Client Reference: BP Station # 11120

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



B.P. OIL COMPANY
 16400 Southcenter Parkway, Suite 301, Tukwila, WA 98188
CHAIN OF CUSTODY

431123.505
 No 0350



Novato, CA, 11 Digital Drive, 94949
 Phone: (415) 883-6100 Fax: (415) 883-2673



Huntington Beach, CA, 5702 Bolsa Avenue, 92649
 Phone: (714) 892-2565 Fax: (714) 890-4032

| | | | | |
|--|--|---|--|---|
| Consultant's Name: Alisto Engineering | | Consultant Project #: 10-170-01/002 | | Page 1 of 1 |
| Address: 1777 Oakland Blvd #200 Walnut Creek CA 94596 | | | | |
| Project Contact: Bill Howell | | Phone #: (510) 295-1650 Fax #: 295-1823 | | Consultant Work Order #: 6047650 |
| Sampled by (print): Larry Buenvenida | | Sampler's Signature: <i>Jay B...</i> | | B.P. Site Location #: 11120 |
| Shipment Method: Courier Airbill #: | | Shipment Date: 11/23/93 | | B.P. Site Location: Dublin, CA |

| TAT: <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 72 hr <input checked="" type="checkbox"/> Standard (10 day) | | | | | | ANALYSIS REQUIRED | | | | | | | | | | Sample Condition as Received Temperature ° C: _____ Cooler #: _____ Inbound Seal Yes No Outbound Seal Yes No | | | | | |
|---|----------------------|-------------------|---------------|-----------|---------------|-------------------------------|------------------------|-------------------|--------------|--|--|--|--|--|--|--|--|--|--|--|----------|
| Sample Description | Collection Date/Time | Matrix Soil/Water | Prsv | # of Cont | PACE Sample # | TPH/GAS/BTEX EPA 8015/8020 | TPH/Diesel EPA 8015 | TRPH EPA 418.1 | HVOC 8010 | | | | | | | | | | | | COMMENTS |
| QC-2 | 11/22/93 | W | Accl V2995 | 2 | 19843.7 | X | | | | | | | | | | | | | | | |
| QC-1 | | | | 3 | 19844.5 | | | | | | | | | | | | | | | | |
| MW-7 | | | | 4 | 19845.3 | | X | | | | | | | | | | | | | | |
| MW-5 | | | | | 19846.1 | | | | | | | | | | | | | | | | |
| MW-6 | | | | | 19847.0 | | | | | | | | | | | | | | | | |
| MW-2 | | | | | 19848.8 | | | | | | | | | | | | | | | | |
| MW-1 | | | | | 19849.6 | | | | | | | | | | | | | | | | |
| MW-3 | | | | | 19850.0 | | | | | | | | | | | | | | | | |
| MW-4 | | | | | 19851.8 | | | | | | | | | | | | | | | | |

| Relinquished by/Affiliation | Date | Time | Accepted by/Affiliation | Date | Time | Additional Comments: |
|-----------------------------|----------|------|---------------------------|----------|------|----------------------|
| <i>Jay B...</i> | 11/23/93 | 1600 | <i>Ed Fath - Pace</i> | 11/23 | 1600 | 911 I/11 |
| <i>Ed Fath - Pace</i> | 11/23 | 1745 | <i>Sandra Brones Pace</i> | 11/23/93 | 1745 | |