

file

November 17, 1992

Mr. Rich Mueller City of Pleasanton Fire Department P.O. Box 520 Pleasanton, California 94566-0802

30-0065

Subject:

4th Quarter 1992 Ground Water Monitoring and Sampling Report

Former Mobil Station 04-H6J

1024 Main Street Pleasanton, California

Dear Mr. Feldman:

In accordance with our agreement, enclosed is the fourth quarter, 1992, Ground Water Monitoring and Sampling Report for former Mobil Station 04-H6J, 1024 Main Street, Pleasanton, California (Figure 1). Alton Geoscience has conducted ground water monitoring and sampling at the site since April 16, 1990. The project background is presented in Appendix A.

#### FIELD ACTIVITIES

On October 27, 1992, Alton Geoscience performed ground water monitoring and sampling of Wells MW-1, MW-4, MW-6 and MW-9. Monitoring and sampling of the wells was performed in accordance with requirements and procedures of the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), and local regulatory agencies. Wells MW-3, MW-7 and MW-8 were dry. Well MW-5 was determined to contain insufficient water to sample. MW-2 was found to contain free-floating hydrocarbons using an interface probe. Approximately 1 ounce of free-floating hydrocarbons were removed from MW-2 by hand bailing. Water samples were analyzed for total petroleum hydrocarbons quantified as gasoline (TPH-G), and benzene, toluene, ethylbenzene, and total xylenes (BTEX).

Alton Geoscience ground water monitoring and sampling protocol and field survey forms are presented in Appendix B. The official laboratory reports and chain of custody record are presented in Appendix C.

### DISCUSSION OF RESULTS

Analytical results for this and previous ground water monitoring and sampling events are summarized in Table 1. A ground water elevation contour map, based on fluid level measurements collected October 27, 1992, is shown in Figure 2.

Previous investigations indicated the presence of two water bearing zones beneath the site. The shallower zone, in which Monitoring Wells MW-3, MW-5, MW-7, and MW-8 are completed, has been intermittently dry since August 1991. Historically, monitoring of these wells has indicated significant fluctuations in ground water levels. Results of ground water monitoring and sampling indicate the following:

- The apparent ground water gradient direction for the October 27, 1992, monitoring event is southeasterly.
- TPH-G ranging from 850 to 13,000 parts per billion (ppb) was detected in Wells MW-1, MW-4, MW-6, and MW-9; MW-9 contained the highest concentration.
- Benzene was detected in Wells MW-1, MW-4, MW-6, and MW-9 at 320, 440, 27, and 2,400 ppb, respectively.

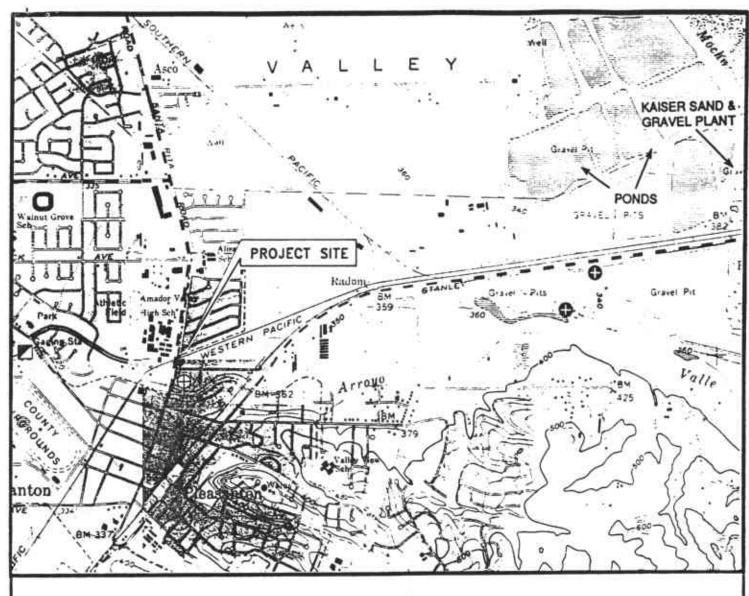
## ALTON GEOSCIENCE

Dale P. Swain
Staff Scientist

Dennis Maslonkowski, R.G. 5299

Dennis Maslon Kowski

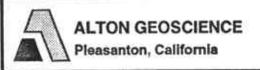
Senior Hydrogeologist







Source: U.S.G.S. Map Dublin/Livermore Quadrangles California 7.5 Minute Series





- U.S.G.S. Guaging Station
- City of Pleasanton Monitoring Well
- Kaiser Discharge to Arroyo Valle

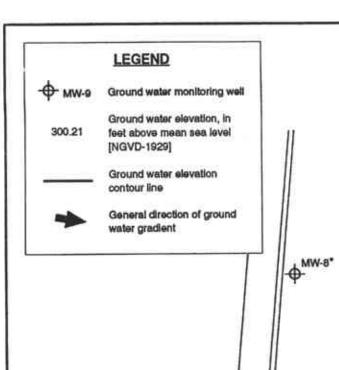


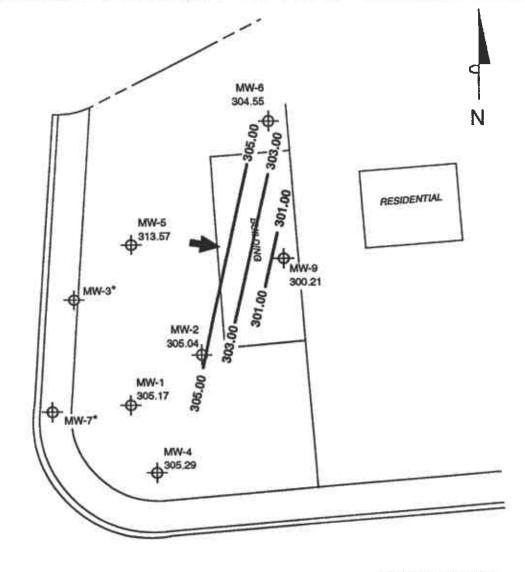
SITE VICINITY MAP

Former Mobil Station 04-H6J 1024 Main Street Pleasanton, California

FIGURE 1

Project No. 31-0065





NOTES:

Contour lines are interpretive based on fluid level measurements collected October 27, 1992.
Contour interval = 2.0 foot.

\* = Dry well.

ALTON GEOSCIENCE Pleasanton, California



MAIN STREET

GROUND WATER ELEVATION CONTOUR MAP October 27, 1992

Former Mobil Station 04-H6J 1024 Main Street Pleasanton, California

FIGURE 2

TABLE 1
Results of Ground Water Monitoring and Sampling
Former Mobil Service Station No. 10-H6J
1024 Main Street Pleasanton, California
Project No 30-065-05

# Concentrations in parts per billion (ppb)

| SAMPLE<br>ID | DATE OF<br>SAMPLING | CASING<br>ELEVATION | DEPTH<br>TO<br>WATER | GROUND<br>WATER<br>ELEVATION | PRODUCT<br>THICKNESS | TPH-G              | TPH-D          | В                   | ) <b>T</b> o | E      | x          | 1,2-DCE | Organic<br>Lead | Total<br>Lead | LAB |
|--------------|---------------------|---------------------|----------------------|------------------------------|----------------------|--------------------|----------------|---------------------|--------------|--------|------------|---------|-----------------|---------------|-----|
| MW-1         | 04/16/90            | 348.03              | 21.60                | 326.43                       | 0,00                 | 3600               |                | 73                  | 13           | 3      | 180        | 45      | ND<10           |               | SAL |
| MW-1         | 10/18/90            | 348.03              | 43,18                | 304.65                       | 0.00                 | 5000               | ND<1000        | 700                 | 360          | 170    | 480        | 54      |                 |               | SAL |
| MW-1         | 08/06/91            | 348.03              | 38.65                | 309.38                       | 0.00                 | 2600               |                | 310                 | 340          | 110    | 340        | ND<25   |                 | ND<5.0        | SAL |
| MW-1         | 01/08/92            | 348.03              | 36.68                | 309,35                       | 0.00                 | 2400               |                | 270                 | 370          | 18     | 340        | 14      | ND<50           |               | SAL |
| MW-1         | 04/30/92            | 348.03              | 39.93                | 308.10                       | 0.00                 | 1300               |                | 150                 | 120          | 12     | 160        | 4.3     |                 |               | SEQ |
| MW-1         | 07/31/02            | 348.03              | 43.05                | 304.98                       | 0.00                 | ND<50              |                | ND<0.5              | ND<0.5       | ND<0.5 | ND<0.5     |         |                 |               | SEQ |
| MW-1         | 10/27/02            | 348,03              | 42.86                | 305.17                       | 0.00                 | 2700               |                | 350                 | 310          | 84     | 310        |         |                 | -             | 660 |
| MW-2         | 04/16/90            | 348.45              | 45.27                | 303.18                       | 0.00                 | 64000              |                | 5500                | 7600         | 1900   | 7600       | 200     | ND<10           |               | SAL |
| MW-2         | 10/18/90            | 348.45              | 43.18                | 305.27                       | 0.00                 | 63000              | 10000          | 6600                | 9100         | 2400   | 11000      | 400     | 7               |               | SAL |
| WW-2         | 08/06/91            | 348.45              | 39.19                | 309.26                       | 0.00                 | 100000             |                | 10000               | 25000        | 4300   | 19000      | 330     |                 | 330           | BEQ |
| MW~2         | 01/08/92            | 348.45              | 39.40                | 309.07                       | 0.02                 | NOT SAMP           | LED DUE TO PRI | ESENCE OF FRE       | E PRODUCT    |        | ,,,,,,     | 400     |                 | 3.30          | NA. |
| MW-2         | 04/30/92            | 348.45              | 40.50                | 307.95                       | 0.00                 | 71000              |                | 9200                | 19000        | 3700   | 15000      | 420     |                 |               | 6EQ |
| MW-2         | 07/31/92            | 348.45              | 43.64                | 304.93                       | 0.15                 | NOT BAMP           | LED DUE TO PRI | SENCE OF FRE        | E PRODUCT    |        |            |         |                 | •             | NA  |
| MW-2         | 10/27/92            | 348.45              | 43.53                | 304,92                       | TRACE                | NOT SAMP           | LEO DUE TO PRI | SENCE OF FRE        | E PRODUCT    |        |            |         |                 |               | NA  |
| MW-3         | 04/16/90            | 347.97              | 21.60                | 326.37                       | 0.00                 | 2100               |                | 32                  | 56           | 31     | 170        | 117     | ND<10           |               | SAL |
| E-WN         | 10/18/90            | 347.97              | 14.28                | 333.69                       | 0.00                 | 110                | ND<1000        | 3                   | 3            | 1      | Б          | 2       |                 |               | SAL |
| E-WN         | 08/05/91            | 347.97              | 33.19                | 314.78                       | 0.00                 | INBUFFICIE         | NT WATERFOR    | <b>SAMPLE COLLE</b> | CTION        | •      | •          | -       |                 |               | NA  |
| MW-3         | 01/08/92            | 347.07              | 32.36                | 315.61                       | 0.00                 | 680                |                | 0.8                 | 26           | 8.5    | 72         | 5.7     |                 |               | SEQ |
| WW-3         | 04/30/92            | 347.97              | 33.15                | 314.82                       | 0.00                 | INSUFFICIE         | NT WATERFOR    | <b>BAMPLE COLLE</b> | CTION        |        |            | •       |                 |               | NA. |
| MW-3         | 07/31/92            | 347.07              | DRY                  |                              |                      |                    |                |                     |              |        |            |         |                 |               | NA. |
| MW-3         | 10/27/92            | 347.97              | DRY                  | ~-=                          |                      |                    |                |                     |              |        |            |         |                 |               | NA  |
| MW-4         | 10/18/90            | 348.07              | 43.16                | 304.91                       | 0.00                 | 9800               | 2000           | 180                 | 500          | 200    | 1200       | ٥       |                 |               | -   |
| MW-4         | 08/06/91            | 348.07              | 38.65                | 309.42                       | 0.00                 | 8600               | 22.25          | 320                 | 420          | 220    | 650        | ND<25   |                 | 450           | SAL |
| MW-4         | 01/08/92            | 348.07              | 38.65                | 309.42                       | 0.00                 | 3400               |                | 900                 | 680          | 220    |            |         |                 | ND<5.0        | 8EQ |
| MW-4         | 04/30/92            | 348.07              | 39.88                | 308,19                       | 0.00                 | 7200               |                | 650                 | 1200         | 210    | 1100       | 9.2     | ND<50           |               | SEQ |
| MW-4         | 07/31/92            | 348.07              | 43.07                | 305.00                       | 0.00                 | 3800               |                | 320                 | 340          | 120    | 1200       | ND<50   |                 |               | BEQ |
| MW-4         | 10/27/02            | 348.07              | 42.78                | 305.29                       | 0.00                 | 9000               |                | 440                 | 750          | 190    | 360<br>900 |         |                 |               | BEQ |
|              | 2001/07/17/07/19/0  |                     |                      |                              | 7.00                 | THE PARTY NAMED IN |                |                     |              | 160    | 900        |         |                 |               | SEQ |
| MW-5         | 10/18/90            | 347.97              | INACCESSABLE         |                              | 0.00                 |                    |                |                     |              | -      |            |         |                 |               | NA  |
| MW-5         | 08/06/91            | 347,97              | 34.25                | 313.72                       | 0.00                 | INSUFFICIE         | NT WATERFOR    | <b>SAMPLE COLLE</b> | CTION        |        |            |         |                 |               | NA. |
| MW-5         | 01/08/92            | 347.97              | 34.22                | 313.75                       | 0.00                 | INSUFFICIE         | NT WATERFOR    | <b>SAMPLE COLLE</b> | CTION        |        |            |         |                 |               | NA. |
| MW-5         | 04/30/92            | 347.07              | DRY                  |                              |                      |                    |                |                     | -            | -      |            |         |                 |               | NA  |
| MW-5         | 07/31/92            | 347.07              | 34.41                | 313.56                       | 0.00                 | INSUFFICIE         | NT WATERFOR    | <b>SAMPLE COLLE</b> | CTION        |        |            |         | (42,22.5)       |               | NA. |
| MW-5         | 10/27/92            | 347,97              | 34.40                | 313.57                       | 0.00                 | INSUFFICIE         | NT WATERFOR    | <b>8AMPLE COLLE</b> | CTION        |        |            |         |                 |               | NA  |
| MW-6         | 10/18/90            | 348.23              | 43.60                | 304.63                       | 0.00                 | 3000               | ND<1000        | 1300                | 150          | 120    | 65         | 140     | -               |               | SAL |
| MW-6         | 08/08/01            | 348.23              | 39.07                | 309.16                       | 0.00                 | 1600               |                | 220                 | 10           | 5.2    | 14         | 8.3     |                 | ND<5.0        | SEQ |
| WW-6         | 01/06/92            | 348.23              | 39,16                | 309.05                       | 0.00                 | 370                |                | 81                  | 3.9          | 4.5    | 2.9        | 5.4     | ND<50           | ND<8.0        | SEQ |
| WW-6         | 04/30/92            | 346,23              | 40.45                | 307.77                       | 0.00                 | 610                | ***            | 180                 | 8.4          | 6.8    | 3.3        | 7.0     | 110 - 50        |               | SEO |
| MW-6         | 07/31/92            | 348.23              | 43.01                | 304.62                       | 0.00                 | 9400               |                | 1500                | 1500         | 370    | 1100       |         |                 |               | SEQ |
| MW-0         | 10/27/02            | 348.23              | 43.56                | 304.55                       | 0.00                 | 850                |                | 27                  | ND<0.5       | 6      | 10         |         |                 |               | SEQ |

TABLE 1 Results of Ground Water Monitoring and Sampling Former Mobil Service Station No. 10-H6J 1024 Main Street Pleasanton, California Project No 30-065-05

#### Concentrations in parts per billion (ppb)

| SAMPLE<br>ID | DATE OF<br>BAMPLING | CASING<br>ELEVATION | DEPTH<br>TO<br>WATER | GROUND<br>WATER<br>ELEVATION | PRODUCT<br>THICKNESS | TPH-G             | TPH-D        | В            | Т      | E      | x    | 1,2~DCE | Organic<br>Lead | Total<br>Lead | LAB |
|--------------|---------------------|---------------------|----------------------|------------------------------|----------------------|-------------------|--------------|--------------|--------|--------|------|---------|-----------------|---------------|-----|
| MW-7         | 10/18/90            | 347.90              | 9.25                 | 338.64                       | 0.00                 | ND<50             | ND<1000      | 0.3          | 0.5    | ND<0.3 | 0.8  | ND<0.5  |                 |               | SAL |
| MW-7         | 08/06/91            | 347.90              | 24.20                | 323.70                       | 0.00                 | INSUFFICIE        | NT WATERFOR  | SAMPLE COLLE | CTION  |        |      |         |                 |               | NA  |
| MW-7         | 01/08/92            | 347.90              | 23.79                | 324.11                       | 0.00                 | 220               |              | 7,6          | 1.7    | ND<0.3 | 0.65 |         |                 |               | SEQ |
| MW-7         | 04/30/92            | 347.90              | 24.40                | 323.50                       | 0.00                 | <b>INBUFFICIE</b> | NT WATERFOR  | SAMPLE COLLE | CTION  |        |      |         |                 |               | NA  |
| MW-7         | 07/31/92            | 347.90              | DRY                  |                              |                      |                   |              |              |        |        |      |         |                 |               | NA  |
| MW-7         | 10/27/92            | 347,90              | DRY                  |                              |                      |                   |              |              |        |        | -    |         |                 |               | NA  |
| B-WM         | 10/18/90            | 348.90              | 11.30                | 337.60                       | 0.00                 | 900               | ND<1000      | 3            | S      | 7      | 62   | ND<0.5  |                 |               | SAL |
| MW-8         | 08/06/91            | 348.90              | 28.60                | 320.30                       | 0.00                 | INSUFFICIE        | NT WATERFOR  | SAMPLE COLLE | CTION  |        |      |         |                 |               | NA  |
| 8-WM         | 01/08/92            | 348.90              | DRY                  |                              |                      |                   |              |              |        |        |      |         |                 |               | NA  |
| MW-8         | 04/30/92            | 348.90              | DRY                  |                              |                      |                   |              |              |        |        |      |         |                 |               | NA  |
| MW-8         | 07/31/02            | 348.90              | 12.04                | 336.86                       | 0.00                 | 270 *             |              | ND<0.5       | ND<0.5 | ND<0.5 | 1.3  |         |                 |               | 6EQ |
| WW-8         | 10/27/92            | 348.90              | DRY                  |                              |                      |                   |              |              |        |        |      |         |                 |               | NA  |
| MW-9         | 02/04/92            | 348.53              | 43.54                | 304,99                       | 0.00                 | 16000             |              | 3000         | 740    | 1200   | 2500 | 68      |                 | ND<5.0        | 8EQ |
| MW-9         | 04/30/92            | 348.53              | 42.83                | 305.70                       | 0.00                 | 5600              |              | 1000         | 120    | 410    | 350  | ND<50   |                 |               | 6EQ |
| MW-0         | 07/31/92            | 348.53              | 47.36                | 301.17                       | 0.00                 | 9300              |              | 1800         | 1900   | 620    | 940  |         |                 |               | SEQ |
| MW-P         | 10/27/02            | 348,53              | 48.32                | 300.21                       | 0.00                 | 13000             | W less sells | 2400         | 1000   | 680    | 1100 | -       |                 |               | 680 |

#### **EXPLANATION OF ABBREVIATIONS:**

total petroleum hydrocarbona quantified as gasoline total petroleum hydrocarbona quantified as dissel benzene TPH-G TPH-D

:toluene E entrylbenzene total xylenes

:not detected at or above reported detection limit :not applicable/not analyzed ND

reported by laboratory as non gasoline midure 1,2-DCE :1,2-Dichloroethane

Superoir Analytical Laboratories Sequola Analytical SAL

8EQ

# APPENDIX A PROJECT BACKGROUND

## PROJECT BACKGROUND

March 1989: A soil gas survey was conducted by Target Environmental Services (TES). Hydrocarbon vapors were detected in soil near the existing pump islands.

October 1989: Balch Petroleum removed three underground fuel storage tanks and an underground waste oil tank. Analysis of soil samples collected from the western boundary of the fuel tank cavity detected between 890 parts per million (ppm) and 2,400 ppm total petroleum hydrocarbons as gasoline (TPH-G). Following removal of the tanks approximately 260 yards of hydrocarbon-affected soil were excavated, sampled, aerated onsite, and subsequently removed for disposal.

June 1, 1990: Alton Geoscience submitted a site investigation report. Eight exploratory soil borings were drilled, three of which were subsequently converted to Monitoring Wells MW-1, MW-2, and MW-3. The geology of the site indicates the presence of two aquifers, separated by a difference in ground water elevations of approximately 20 feet. The highest hydrocarbon concentrations were detected in soil samples collected between 25 and 45 feet below grade with up to 3,500 ppm TPH-G.

January 15, 1991: Alton Geoscience submitted a supplemental site investigation report. Five additional monitoring wells MW-4 through MW-8 were installed. Two water bearing zones were encountered within 50 feet below grade (fbg), and appeared to be separated vertically and laterally by a less permeable clay. The ground water gradient of the upper water bearing zone was directed towards the northeast, and the lower to the northwest. Aquifer testing was performed on both water bearing zones. Adsorbed-phase hydrocarbons appeared limited to the vicinity of the former pump islands and north-northeast of the former underground fuel storage tanks.

August, 1991: Alton Geoscience supervised Earth Technology Corporation during a geotechnical survey using cone penetrometer test (CPT) methods and ground water sampling using a hydropunch tool. Nine CPT soundings were conducted and eight water samples collected. CPT results were used to help define the stratigraphy beneath the site. Results of CPT soundings and hydropunch sampling are summarized in the Alton Geoscience report dated July 31, 1992.

October 24 and 25, 1991: Alton Geoscience supervised Balch Petroleum during trenching operations beneath the location of the former pump islands. Analysis of soil samples collected during the excavation revealed the presence of hydrocarbon-affected soil. Approximately 100 yards of soil were excavated and stockpiled onsite.

August to November 1991: Alton Geoscience continuously monitored ground water levels from several wells using a data logger. Significant changes in ground water elevations were observed. Significant fluctuations in ground water elevations have been noted by Zone 7 in Monitoring Well 3S/1E 16P 5, located approximately 250 feet south of the site.

January 8, 1992: Trenches excavated by Balch Petroleum in October 1991 were backfilled by Balch Petroleum.

January 29 and 30, 1992: Alton Geoscience supervised Clear Heart Construction during drilling of MW-9 (SB-14) and SB-15 inside the former station building.

March 2 and 3, 1992: Alton Geoscience performed two constant rate pumping tests on MW-1 and MW-2. Pumping test results are presented in Alton Geoscience report dated July 31, 1992.

July 31, 1992: Alton Geoscience submitted Supplemental Site Investigation: Assessment and Remedial Investigation of Hydrocarbon-Affected Soil and Ground Water. The report concluded that adsorbed-phase hydrocarbons apparently originated from elbow junctions of the former product lines south of the western dispenser island and north of the former fuel tank cavity and possibly from the former fuel tanks. The migration of hydrocarbons in the vadose zone appears to have been controlled by lenses of coarser sediments within silty clays. The extent of dissolved-phase hydrocarbons in either the upper or lower aquifers has not been defined, however, liquid-phase hydrocarbons appear to be limited to the vicinity of MW-2.

# APPENDIX B

ALTON GEOSCIENCE GENERAL FIELD PROCEDURES FOR MONITORING WELL SAMPLING AND FIELD SURVEY FORMS

# ALTON GEOSCIENCE GENERAL FIELD PROCEDURES FOR MONITORING WELL SAMPLING

Monitoring wells were inspected for the presence of free product using an electronic interface probe prior to purging. Before sampling, wells were purged of 3 to 4 casing volumes of water or until pH, temperature, and electroconductivity stabilized. Ground water samples were collected by lowering a 2-inch-diameter bottom-fill disposable polyethylene bailer below the air/water interface in the well. The samples were carefully transferred from the bailer to zero-headspace 40-milliliter and 1-liter glass containers fitted with Teflon-sealed caps. 40-milliliter samples were inverted to ensure entrapped air was not present. Each sample was labeled with sample number, well number, date, and sampler's initials, and remained on ice prior to and during transport to a California-certified laboratory for analysis. The samples were handled in accordance with proper chain of custody documentation. The purged water was pumped into barrels prior to disposal or recycling at an appropriate waste disposal facility.

# APPENDIX C

ANALYTICAL METHODS, OFFICIAL LABORATORY REPORTS, AND CHAIN OF CUSTODY RECORD

# ANALYTICAL METHODS, OFFICIAL LABORATORY REPORTS, AND CHAIN OF CUSTODY RECORD

This appendix includes copies of the official laboratory reports and chain of custody record for soil and ground water samples selected for laboratory analysis.

Laboratory analyses were performed by Sequoia Analytical, a California-certified laboratory (California Certification No. 1271).

Chemical analyses of soil and ground water samples were performed using standard test methods of the United States Environmental Protection Agency (EPA) and the California Department of Health Services (Cal-DHS).

Chain of custody protocol was followed for all samples. The chain of custody form(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to actual analysis.

Alton Geoscience

5870 Stoneridge Drive, Suite 6

Pleasanton, CA 94588

Attention: Dennis Masionkowski

Client Project ID:

Mobil #04-H6J / #30-0065-10

x: Water

Sample Matrix: V
Analysis Method: E
First Sample #: 2

EPA 5030/8015/8020 210-0931 Sampled: Received: Oct 27, 1992

Reported:

Oct 28, 1992 Nov 3, 1992

# TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

| Analyte                   | Reporting<br>Limit<br>µg/L | Sample<br>I.D.<br>210-0931<br>MW-6 | Sample<br>I.D.<br>210-0932<br>MW-1 | Sample<br>I.D.<br>210-0933<br>MW-4 | Sample<br>I.D.<br>210-0934<br>MW-9 |  |
|---------------------------|----------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--|
| Purgeable<br>Hydrocarbons | 50                         | 850                                | 2,700                              | 9,000                              | 13,000                             |  |
| Benzene                   | 0.5                        | 27                                 | 320                                | 440                                | 2,400                              |  |
| Toluene                   | 0.5                        | N.D.                               | 310                                | 750                                | 1,600                              |  |
| Ethyl Benzene             | 0.5                        | 6.0                                | 84                                 | 190                                | 680                                |  |
| Total Xylenes             | 0.5                        | 10                                 | 310                                | 900                                | 1,100                              |  |
| Chromatogram Pai          | ttern:                     | Gasoline                           | Gasoline                           | Gasoline                           | Gasoline                           |  |

**Quality Control Data** 

| Report Limit Multiplication Factor:             | 10       | 1.0      | 10       | 20       |
|---|----------|----------|----------|----------|
| Date Analyzed:                                  | 10/30/92 | 10/29/92 | 10/29/92 | 10/29/92 |
| Instrument Identification:                      | HP-4     | HP-2     | HP-2     | HP-2     |
| Surrogate Recovery, %:<br>(QC Limits = 70-130%) | 102      | 126      | 122      | 105      |

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.

Analytes reported as N.D. were not detected above the stated reporting limit.

**SEQUOIA ANALYTICAL** 

Project Manager

2100931.ALT <1>

Alton Geoscience

Client Project ID: Mobil #04-H6J / #30-0065-10

5870 Stoneridge Drive, Suite 6

Pleasanton, CA 94588

Attention: Dennis Maslonkowski

First Sample #:

210-0931

Reported:

Nov 3, 1992

### **QUALITY CONTROL DATA REPORT**

| Benzene   Toluene   Benzene   Xylenes   | ANALYTE       | ·            | <del></del> | Ethyl- |         |
|---|---------------|--------------|-------------|--------|---------|
| Method: Analyst:         3015/8020         8015/8020         901/2   |               | Benzene      | Toluene     | =      | Xylenes |
| Method:         8015/8020         902/L         μg/L  |               | EPA          | EPA         | EPA    | EPA     |
| Analyst:         J.F.         J.F.         J.F.         J.F.         J.F.         J.F.         J.F.         J.F.         μg/L   | Method:       |              |             |        |         |
| Reporting Units:         μg/L         μg/L <td>Analyst:</td> <td></td> <td>•</td> <td>•</td> <td>•</td>  | Analyst:      |              | •           | •      | •       |
| Date Analyzed: QC Sample #:         Oct 29, 1992 Matrix Blank         Matrix Blank <th< td=""><td></td><td>μg/L</td><td>μg/L</td><td></td><td></td></th<> |               | μg/L         | μg/L        |        |         |
| Sample Conc.: N.D. N.D. N.D. N.D. N.D.  Spike Conc. Added: 20 20 20 60  Conc. Matrix Spike Spike: 20 20 20 64  Matrix Spike % Recovery: 100 100 100 106  Conc. Matrix Spike % Recovery: 20 20 20 63  Matrix Spike Dup.: 20 20 20 63   |               |              |             |        |         |
| Spike Conc.       20       20       20       60         Conc. Matrix       20       20       20       64         Matrix Spike       20       20       100       100       100       106         Conc. Matrix       Spike Dup.:       20       20       20       63         Matrix Spike       Duplicate       30       20       63  |               | Matrix Blank |             | -      |         |
| Added:       20       20       20       60         Conc. Matrix<br>Spike:       20       20       20       64         Matrix Spike<br>% Recovery:       100       100       100       106         Conc. Matrix<br>Spike Dup.:       20       20       20       63         Matrix Spike<br>Duplicate       20       20       20       63   | Sample Conc.: | N.D.         | N.D.        | N.D.   | N.D.    |
| Added: 20 20 20 60  Conc. Matrix Spike: 20 20 20 64  Matrix Spike % Recovery: 100 100 100 106  Conc. Matrix Spike Dup.: 20 20 20 63  Matrix Spike Duplicate   | Spike Conc.   |              |             |        |         |
| Spike:         20         20         20         64           Matrix Spike         % Recovery:         100         100         100         106           Conc. Matrix         Spike Dup.:         20         20         20         63           Matrix Spike         Duplicate         Duplicate         64  |               | 20           | 20          | 20     | 60      |
| Spike:       20       20       20       64         Matrix Spike       % Recovery:       100       100       100       106         Conc. Matrix       Spike Dup.:       20       20       20       63         Matrix Spike       Duplicate       20       20       63  | Cone Matrix   |              |             |        |         |
| % Recovery: 100 100 100 106  Conc. Matrix Spike Dup.: 20 20 20 63  Matrix Spike Duplicate   |               | 20           | 20          | 20     | 64      |
| % Recovery: 100 100 100 106  Conc. Matrix Spike Dup.: 20 20 20 63  Matrix Spike Duplicate   | Matrix Snika  |              |             |        |         |
| Spike Dup.: 20 20 63  Matrix Spike Duplicate  |               | 100          | 100         | 100    | 106     |
| Spike Dup.: 20 20 63  Matrix Spike Duplicate  | Cone Matrix   |              |             |        |         |
| Duplicate   |               | 20           | 20          | 20     | 63      |
|   |               |              |             |        |         |
| •   |               | 100          | 100         | 100    | 105     |
|   | -             |              |             |        |         |
| Relative  |               | 0.0          | 0.0         | 0.0    | 1.5     |

Laboratory blank contained the following analytes: None Detected

**SEQUOIA ANALYTICAL** 

Scott A. Chieffo Project Manager % Recovery:

Conc. of M.S. - Conc. of Sample x 100

Spike Conc. Added

Relative % Difference:

Conc. of M.S. - Conc. of M.S.D. x 100

(Conc. of M.S. + Conc. of M.S.D.) / 2

2100931.ALT <2>

# **Mobil Chain of Custody**



Redwood City: Concord:

(415) 364-9600 (510) 686-9600

(916) 921-9600

| Consulting Firm Name: Alton Geos   | <u>xience</u>            | Site SS #: 04- HGJ                | Phase of Work:   |  |  |  |  |  |  |  |
|--|--------------------------|-----------------------------------|--|--|--|--|--|--|--|--|
| Address: 5870 Stoneridge   | De # 6                   | Mobil Site Address: 1024 Main St. | Please ton A. Emrg. Response   |  |  |  |  |  |  |  |
| city: Peasanton state: C   | 9 Zio Code: 9458         | Mobil Engineer: Edgar Hoepke      | B. Site Assessment   |  |  |  |  |  |  |  |
| Telephone: (510) 734-8134  | FAX #: 734-8420          | Consultant Brolont # 20 = nd ==   | G. Remediation   |  |  |  |  |  |  |  |
| Project Contact: Demais Mishall some   | Jan 1 1 1 R 1            | Consultant Floject #. 50 006-5    | , ,  |  |  |  |  |  |  |  |
| Project Contact: Dennis Mestant Sampled by: Larry Buenvenida Sequola's Work Order Release #:  Turnaround Time: Destandard TAT (5 - 10 Working Days)  Analyses Requested  |                          |                                   |  |  |  |  |  |  |  |  |
| Turnaround Time: Standard TAT (5 - 10 to 1 | Working Days)            |                                   | s nequested)   |  |  |  |  |  |  |  |
|  | # of Sequoia's Sample #  | Zar zar jega karan olega y        | Comments   |  |  |  |  |  |  |  |
| 1. MW-6 10/21/12/ 1230 W   | 3                        | 2100                              | 93/AC  |  |  |  |  |  |  |  |
| 2. MW-1 / 1312   |                          |                                   | 93240  |  |  |  |  |  |  |  |
| 3. MW-4 / 1340   |                          |                                   | 933 AC   |  |  |  |  |  |  |  |
| 4. MW- 9 / 1441  |                          |                                   | 934AC  |  |  |  |  |  |  |  |
| 5.   |                          |                                   | 1012   |  |  |  |  |  |  |  |
| 6  |                          |                                   |  |  |  |  |  |  |  |  |
| 7.   |                          |                                   |  |  |  |  |  |  |  |  |
| 8.   |                          |                                   | The state of the s |  |  |  |  |  |  |  |
| 9.   |                          |                                   |  |  |  |  |  |  |  |  |
| 10.  |                          |                                   |  |  |  |  |  |  |  |  |
| Relinquished By: Jan Brundy  | Date:/0/21/92 Time:1 530 | Received By:                      | Date: on harden Times 1975   |  |  |  |  |  |  |  |
| Relinquished By:   | Date: Time:              | Received By:                      | Date: Time: /530   |  |  |  |  |  |  |  |
| Selinguished By:   | Date: Time:              | Received By;                      | Date: Time:  |  |  |  |  |  |  |  |