

**SUPPLEMENTAL SITE INVESTIGATION:
ASSESSMENT AND REMEDIAL INVESTIGATION OF HYDROCARBON-AFFECTED
SOIL AND GROUND WATER**

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

Project No. 30-0065

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PART I INTRODUCTION

1.0 SCOPE AND PURPOSE OF WORK

Alton Geoscience was retained by Mobil Oil Corporation to conduct additional remedial and characterization activities at Former Mobil Station 04-H6J, 1024 Main Street, Pleasanton, California, based upon the results and recommendations of the Phase II Site Investigation Report and Remedial Planning study submitted in June 1991.

This supplemental investigation was performed to: (1) determine the nature and extent of the hydrocarbon-affected soil and ground water beneath the site, (2) and develop an appropriate course of action for remediation.

The scope of work for this phase of the investigation involved the following tasks:

- Review documents on file with Zone 7, and obtain the necessary permits for conducting subsurface exploration.
- Perform a geotechnical survey consisting of cone penetrometer tests (CPT) for subsurface evaluation of sediment types and hydrocarbon-affected groundwater using a hydropunch tool.
- Excavate beneath the location of the former pump islands to remove hydrocarbon-affected soil and collect soil samples for chemical analysis.
- Drill one soil boring (SB-15) and install one additional monitoring well (MW-9/SB-14) inside the station building to assess the presence or absence of hydrocarbon-affected soil and ground water beneath the building.
- Conduct aquifer testing to characterize the aquifer beneath the site.
- Analyze data collected from the above tasks and prepare a technical report presenting field activities, laboratory results, findings and conclusions.

Investigative activities were conducted in accordance with regulatory requirements of the Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) and the Alameda County Flood Control and Water Conservation District, Zone 7 (Zone 7).

2.0 SITE DESCRIPTION

Former Mobil Oil Service station 10-H6J is located in the northeast corner of the intersection of Main and Stanley Streets in Pleasanton, California. The properties adjoining the site to the north and east are the Western Pacific Railroad right-of-way, and residential property, respectively. To the west across Main Street are small businesses. To the south is a Unocal Service station which has recently been closed. A sensitive receptors survey was conducted in October 1991 and is included with the Project Background in Appendix A.

The site is at an elevation of approximately 348 feet above mean sea level (msl), as shown in Figure 1, Site Vicinity Map. Approximately 250 feet south of the site is the Arroyo Valle, an intermittent stream that flows approximately east-west. This stream accepts discharged process water from Kaiser Sand and Gravel, a large sand and gravel operation, located approximately 2.5 miles to the east. Several large ponds used by Kaiser and other gravel plants for water storage are shown in Figure 1. A discussion of the effects these features may have on the ground water gradient beneath the site is presented in Part II, Section 2.3.

There are 3 municipal water supply wells within 1/2 mile of the site. Monitoring wells maintained by the City of Pleasanton are located approximately 250 feet to the south of the site. A Site Plan, Figure 2, shows the locations of the CPT soundings, soil borings, monitoring wells, and hydrogeologic cross sections. The property is currently occupied by the former station building. All underground tanks and associated product piping have been removed. The locations of the former underground tanks, pump islands, associated excavations, and soil sample localities are shown in Figure 8.

As part of this investigation, Alton Geoscience reviewed the RWQCB Unauthorized Tank Release List. There are five sites listed within a 1 mile radius; two of which are within a 1/2 mile radius of the site.

- Shell Service Station, 4226 First Street, Pleasanton, approximately 1,500 feet to the southeast.
- Exxon Service Station, 349 Main Street, Pleasanton, approximately 2,000 feet to the south.
- Whalen Construction, 4227 Pleasanton Avenue, approximately 2,800 feet to the south.
- Alameda County Fairgrounds, 4501 Pleasanton Avenue, approximately 3,000 feet to the south.
- Reeve Trucking, Valley Avenue, approximately 5,000 feet to the northeast.

Based on a review of the case files for each of the above sites, it does not appear that any

offsite migration of petroleum hydrocarbons from these sites has impacted or could impact subsurface soil and ground water at the former Mobil Oil service station. The recently closed Unocal service station, south of the site, is not listed on the RWQCB List of Unauthorized Tank Releases. In May 1992, Unocal removed underground storage tanks and associated piping, however, no public disclosure of findings has been made.

3.0 REGIONAL GEOLOGY AND HYDROGEOLOGY

3.1 Regional Geology

The site is located within the Amador Subbasin of the Livermore Valley Ground Water Basin. The lithologic units of the Livermore Valley Basin consist primarily of unconsolidated to semiconsolidated Quaternary sediments. These sediments are predominantly stream channel, fluvial and alluvial deposits. These deposits are generally gravels, sands, clays, and silts. Stream channel deposits in this sequence, although highly permeable, are discontinuous and are not the major water-bearing sediments in the Livermore Valley Basin. Alluvium and alluvial fan deposits are the major water-bearing sediments of the basin and occur at approximately 90 feet below grade. The Amador Subbasin is structurally bounded by the Livermore fault to the east and by the Pleasanton fault to the west.

3.2 Regional Hydrogeology

The main surface drainages of the Amador Subbasin are the Arroyo Valle and the Arroyo Mocho, both of which flow into the Arroyo de la Laguna, which is on the western edge of the subbasin.

Ground water in the Amador Subbasin occurs under confined and unconfined conditions. Ground water in the region is generally unconfined in the shallower deposits. Zone 7 characterizes the deeper water-bearing zones as semi-confined, and interprets the major water-bearing zone beneath the subbasin as occurring at approximately 90 feet below grade (fbg). Zone 7 also interprets the regional ground water gradient as westerly to northerly (Zone 7, 1989).

The active production wells maintained by the City of Pleasanton are completed with total depths ranging from 151 to 647 fbg, with a depth to water of approximately 90 fbg as reported by Zone 7. Production rates of existing wells in the Amador Subbasin range from approximately 42 to 2,820 gallons per minute (gpm), (Department of Water Resources, 1974).

A monitoring well maintained by the City of Pleasanton is located approximately 250 feet to the south of the site. Depth to water measurements collected by the City of Pleasanton from this well have fluctuated by as much as 10 feet within a 72-hour period. The average

depth to water in this well is approximately 40 fbg. Ground water levels in the monitoring wells drilled on the former Mobil Oil site also fluctuate significantly over a relatively short time period. A detailed discussion of these fluctuations and the possible cause is presented in Part II, Section 2.3.

PART II SUBSURFACE INVESTIGATION

1.0 FIELD ACTIVITIES AND PROCEDURES

1.1 Cone Penetrometer Test Survey

Between August 14 and 21, 1991, Alton Geoscience supervised EarthTec Incorporated during a geophysical survey using a CPT. Nine CPT soundings were conducted; three offsite and six onsite. Ground water samples were collected from eight of the CPT soundings using a hydropunch tool. Ground water samples collected were analyzed for Total petroleum hydrocarbons as gasoline (TPH-G) with benzene, toluene, ethylbenzene and total xylenes (BTEX) distinction. Analysis of the water samples detected concentrations of both TPH-G and BTEX constituents. Pore pressure dissipation tests were also conducted; one in Sounding PCPT-1 at 46.3 fbg, and two in PCPT-3 at 50.1 and 64.7 fbg. A further description of geophysical methods used is presented in Appendix B, including presentation of CPT data logs. Laboratory analysis of the ground water samples collected during the geophysical survey are presented in Table 1.

1.2 Exploratory Trench Excavations

On October 24 and 25, 1991, Alton Geoscience supervised Balch Petroleum during trenching beneath the location of the former pump islands and product lines. The trenches were approximately 12 to 14 feet deep and 4 feet wide. The eastern and western trenches were approximately 25 and 40 feet in length, respectively. Thirty four soil samples were collected at varying depths for analysis to determine the source and extent of hydrocarbon release.

Analysis of the soil samples for TPH-G with BTEX distinction revealed the presence of hydrocarbon-affected soil beneath the location of the former pump islands. Laboratory results of soil analysis are presented in Table 2 and Figure 8. The trenches were subsequently backfilled with clean engineered fill in December 1991 by Balch Petroleum.

1.3 Soil Borings, Sampling, and Monitoring Well Construction

On January 21, 30 and 31, 1992, Alton Geoscience supervised drilling of an additional soil boring, SB-15, and Monitoring Well MW-9(SB-14) inside the building. Soil samples were collected from both borings in an effort to determine the presence or absence of hydrocarbon-affected soil beneath the station building. Soil boring SB-15 was drilled to a depth of 46 fbg using 8-inch-diameter hollow-stem augers, and was subsequently backfilled from the bottom to the surface with neat cement. Soil Boring SB-14 was drilled to a depth

of 55 fbg using 1 3/4-inch-diameter hollow-stem augers and was converted to Monitoring Well MW-9. Monitoring Well MW-9 was constructed with a screened interval from 25 to 55 fbg using 4-inch-diameter, Schedule 40 PVC with 0.010-inch slots. Alton Geoscience general field procedures for monitoring well construction are presented in Appendix C.

Thirteen soil samples collected from the soil borings were analyzed in an effort to determine the vertical distribution of hydrocarbons beneath the building. Analytical results are summarized in Table 2. Drilling procedures and soil sampling protocol used by Alton Geoscience are presented in Appendix D.

Prior to commencement of drilling activities, permits for the monitoring well and soil boring were obtained from Zone 7. Copies of the permits and boring logs are presented in Appendix E.

1.4 Monitoring Well Development and Sampling, Wellhead Survey, and Ground Water Elevation Monitoring

Monitoring well MW-9 was developed on February 3 and 4, 1992. After being developed in accordance with the guidelines of the RWQCB, MW-9 was purged and sampled on February 9, 1992.

Monitoring Well MW-9 and Soil Boring SB-15 were surveyed by Ron Archer, Inc., a California-registered surveyor, on February 3, 1992. Top of casing elevations were measured in reference to City of Pleasanton Benchmark P-1257, with an elevation of 351.99 feet above mean sea level (msl). Alton Geoscience general field procedures for monitoring well sampling, including field survey forms and wellhead survey, are presented in Appendix F.

Ground water levels in all monitoring wells were measured from a permanent reference mark at the top of the PVC casing using an electronic sounder with an accuracy of 0.01 foot. A summary of ground water elevation measurements is presented in Table 2.

2.0 SITE GEOLOGY AND HYDROGEOLOGY

2.1 Site Geology

Soil borings drilled during this and previous investigations indicate sediment types beneath the site are heterogeneous. Sediment types encountered between the interval of 5 and 35 fbg are predominantly silts and clays. Between the interval of 35 and 65 fbg, sediment types are generally coarser grained sands and gravelly sands. The sediments between this interval appear to be the water-bearing strata beneath the site. Interpretation of the CPT data and boring logs indicate there is some continuity of strata beneath the site. Hydrogeologic cross sections, as shown in Figures 4, 5, 6, and 7, were developed based on boring logs and CPT data log printouts.

2.2 Site Hydrogeology

Subsurface investigations and ground water monitoring conducted by Alton Geoscience indicate that there are two water-bearing zones beneath the site. For purposes of this discussion, these zones are designated "shallow aquifer" and "deep aquifer". The shallow aquifer occurs between approximately 15 and 25 fbg. The deep aquifer is encountered at approximately 35 fbg. Monitoring Well MW-9, which was drilled to a depth of 65 fbg (the deepest well at the site), is completed in sediments interpreted to be part of the deeper aquifer. Ground water monitoring data collected since April 1990 are presented in Table 2.

Ground water levels were continuously monitored between August 26 and November 18, 1991, in Monitoring Wells MW-4 and MW-6 using a data logger and pressure transducer. A variation in ground water elevations of up to 4 feet was observed in a 5-day period. The hydrographs are presented in Appendix G.

- * Periodic measurements of ground water elevations in the monitoring wells using an electronic sounder indicated ground water levels were changing. In addition, ground water monitoring conducted by Zone 7, in Monitoring Well 3S/1E 16P 5 (located approximately 250 feet south of the site) has indicated significant changes. A hydrograph prepared by Zone 7 is presented in Appendix I.

The shallow aquifer, 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 had also indicated fluctuations in ground water levels. Since the ground water gradient appears to vary, a ground water gradient map has not been generated for this study. In general the ground water gradient in the deeper water-bearing zone is towards the north. The ground water gradient in the shallow water-bearing zone can vary from a northerly to a southerly direction.

2.3 Possible Offsite Influence on Ground Water Elevation and Gradient Changes

Approximately 250 feet to the south of the Mobil site, is the Arroyo Valle, an intermittent stream. A large sand and gravel operation, owned by Kaiser Sand & Gravel, discharges water into Arroyo Valle upstream of the Mobil site, approximately 1.5 miles away. Mean daily volumes of water discharged into the Arroyo Valle are reported by Kaiser Sand and Gravel to Zone 7 on a monthly basis.

Kaiser relies solely on large ponds for process water used during plant operations. These ponds are excavations up to 40 feet deep. Up to 17,000 gallons per minute (gpm) are pumped directly from the ponds into the plant. Excess water is discharged into Arroyo Valle or back into one of the storage ponds. For these reasons, water is constantly being transferred between ponds. For conservation reasons, Kaiser tries to minimize the amount of water discharged to Arroyo Valle. Water usage by Kaiser varies each day and since the

plant operates year-round, water discharge amounts are difficult to determine.

Locations of a United States Geological Survey (USGS) gauging station, Zone 7 monitoring wells and Kaiser discharge outlets and ponds are shown in Figure 1.

3.0 ANALYTICAL METHODS

Analytical work performed for this phase of the investigation was performed by Sequoia Analytical Laboratory, Inc., a California-certified laboratory. Soil and ground water samples collected were properly preserved and transferred to Sequoia Analytical Laboratories following chain of custody documentation. Chemical analyses of soil and ground water samples were performed using standard test methods of the United States Environmental Protection Agency (EPA). Official laboratory reports and chain of custody documentation for soil and ground water samples are presented in Appendix H.

3.1 Analysis of Soil Samples

Soil samples were collected from trench excavations below the location of the former pump islands and from the soil boring drilled inside the station building (SB-15). Soil samples were also collected during drilling of MW-9(SB-14). Analytical results for these samples are summarized in Table 2. All soil samples were analyzed for the following:

- TPH-G using EPA Methods 8015/8020.
- BTEX using EPA Methods 8015/8020.

Selected soil samples were analyzed using the following methods:

- Total petroleum hydrocarbons as diesel (TPH-D), using EPA Method 8015 modified.
- Halogenated volatile organic compounds (HVOC) using EPA Method 5030/8010.
- Total oil and grease (TOG) using EPA Methods 418.1 (IR) and 413.2 (IR).
- Metals using EPA Methods 6010, 7060, 7196, 7481, 200.7, 239.2, 245.1, and 206.2.

- Total recoverable petroleum oil (TRPH), using EPA Method SM 5520 E&F gravimetric.
- Total organic carbon using EPA Method 415.2.
- Total lead using EPA Method 7421.

3.2 Analysis of Ground Water Samples

Feb. 9 ?
 Ground water samples were collected from the monitoring wells on August 6, 1991 and January 8, 1992. Monitoring Well MW-9, installed January 31, 1992, was developed, purged and sampled on February 3 and 4. The well was purged and sampled in accordance with the guidelines of the RWQCB, and Zone 7.

Ground water samples were also collected during the geophysical survey between August 14 and 21, 1991, using a cone penetrometer and hydropunch. Analytical results for these ground water samples are presented in Table 1. Water samples were analyzed for the following:

- TPH-G using EPA Methods 8015/8020
- BTEX using EPA Methods 8015/8020

Additionally, selected water samples were analyzed for the following:

- HVOC using EPA Method 5030/8010
- TPH-D using EPA Method 8015 modified.
- Organic lead using EPA Method 7421

4.0 DISCUSSION OF ANALYTICAL RESULTS

The analytical results from soil and ground water sampling at the site are summarized below.

4.1 Hydrocarbon Distribution in Soil

- Elevated hydrocarbon concentrations were detected in the shallow subsurface to the south of the western dispenser island. TPH-G concentrations of 4000 and 630 ppm were detected at depths of 8 and 13 fbg in sample locality FS-8 (see Figure 8).

1, 2 - DCA
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- Elevated hydrocarbon concentrations were detected in shallow subsurface soil beneath the former product lines 20 feet south of the eastern dispenser island and west of the former tank cavity in sample locality PS-16. 1,500 and 2,900 ppm TPH-G was detected at 8 and 13 fbg.
- Elevated hydrocarbon concentrations were detected in deeper subsurface soil samples collected from the capillary fringe during drilling of SB-15 inside the station building. Concentrations of TPH-G ranging from 6.2 ppm to 4100 ppm were detected between 26 and 38 fbg. Analysis of soil samples collected from SB-15 between 25 and 37.5 fbg also detected concentrations of 1,2-dichloroethane ranging from 23 to 390 ppm.
- Hydrocarbons were not detected beneath either dispenser island in shallow subsurface to 15 fbg.
- Hydrocarbons were also not detected in soil samples collected from the shallow subsurface or the capillary fringe from MW-9.
- Analysis of selected soil samples collected from SB-15 and MW-9 did not detect TRPH, organic lead, or TOG at or above reported detection limits.

4.2 Hydrocarbon Distribution in Ground Water

- Water samples collected from CPT Soundings CPT-3, 4, and 7 contained TPH-G concentrations of 88, 360, and 670 ppb.
- Water samples collected from CPT Soundings CPT-1, 6, and 8 contained low concentrations of hydrocarbons.
- Hydrocarbons were not detected in water samples collected from CPT Soundings CPT-2 and 9B.
- During the January 8, 1992 sampling event, all wells sampled contained hydrocarbons. The highest hydrocarbon concentrations were detected in MW-2, which was determined to have 0.02 foot of free-floating liquid-phase hydrocarbons, the lowest concentrations in MW-7 containing 220 ppb TPH-G. Monitoring Wells MW-8, and MW-5 were dry. Monitoring Wells MW-3 and MW-7 contained insufficient water to sample.
- Monitoring Well MW-9, which was sampled February 4, 1992, contained elevated hydrocarbon concentrations. 16,000 ppb TPH-G was detected as were BTEX constituents (3000 ppb benzene).

- During the April 30, 1992 sampling event, all wells sampled contained hydrocarbons. The highest hydrocarbon concentrations were detected in MW-2, which contained 71,000 ppb TPH-G. Monitoring Wells MW-8, and MW-5 were dry. Monitoring Wells MW-3 and MW-7 contained insufficient water to sample.
- During the January 8, 1992 sampling event, MW-2 was determined to contain 0.02 foot of free-floating liquid-phase hydrocarbons. Prior to discovery of free-phase hydrocarbons, MW-2 had also contained elevated concentrations of hydrocarbons.
- Dissolved-phase hydrocarbons have historically been present in all wells on- and offsite.
- All monitoring wells completed in the deeper water-bearing zone contain varying hydrocarbon concentrations.
- Benzene concentrations in ground water samples collected from the monitoring wells between January 8 and February 4, 1992, and CPT points between August 14 and 21, 1991, are shown in Figure 3.

5.0 AQUIFER TESTING

5.1 Field Methods for Aquifer Testing

Two constant rate pumping tests were performed to assess the aquifer characteristics at the site for use in a feasibility study for a ground water remediation system. The pumping tests were conducted in an effort to characterize the deeper aquifer. Transducers were placed in the pumping well and selected observation wells. An Instrumentation Northwest data logger was programmed to record readings from the transducers every 15 seconds for the first 30 minutes of the test, every minute for the next hour, then every 2 minutes for the duration of the test.

Concurrent with the pumping tests, a single-channel, self-contained data logger and pressure transducer was placed in selected wells, in order to measure variations in the background water levels during the tests. Background water level measurements were also collected with the data logger between February 2 to March 9, 1992 and between April 4 through 11, 1992 the pumping tests. Discussion of field methods used by Alton Geoscience for aquifer testing and background water level measurements are presented below.

On March 2, 1992, a constant rate pumping test (Pumping Test A) was performed on MW-1, a well screened in the deeper water-bearing zone. The pump was placed in MW-1 and transducers were placed in MW-1, MW-2, MW-4 and MW-6. The depth to water in MW-5

and MW-9 was measured every 30 minutes during the test. MW-3, MW-7, and MW-8 were dry during this period. The well was pumped at 16.7 gpm for 7 hours. During the test, the water levels in MW-2 and MW-4 decreased by 0.1 and 0.11 foot. The water level in MW-9 decreased by 0.05 foot. The water level in MW-5, which is set in the shallow aquifer zone, remained constant throughout the test.

On March 3, 1992, a second test (Pumping Test B), was performed on MW-2. The pump was placed in 2-inch-diameter Well MW-2 and transducers were placed in MW-1 and MW-4. The depth to water in MW-5 and MW-9 was measured every 30 minutes during the test. The well was pumped at 6.8 gpm for 8 hours. During the test (B) the water levels in MW-1 and MW-4 decreased by 0.06 and 0.05 foot. The water level in MW-9 decreased by 0.05 foot. The water level in MW-5 remained constant at the same level recorded the previous day.

Background water levels were measured in selected wells using a self-contained data logger and pressure transducer between the dates of February 2 and March 9, 1992, and April 4 and 11, 1992. Between February 2 and March 9, 1992 the water levels in Well MW-6 varied by up to 0.18 feet. During Pumping Test A, the water levels in MW-6 rose approximately 0.01 foot during the first 2 hours of the test, then decreased approximately 0.02 foot during the remainder of the test. A similar situation is observed during Pumping Test B; the water level in MW-6 increased by 0.02 feet during the first part of the test, then decreased by 0.06 feet during the remainder of the test.

Between April 4 and 11, 1992 four transducers were placed in MW-1, MW-2, MW-6, and MW-9 to measure relative changes in water levels between the wells using a self-contained data logger and pressure transducer. It was found that both the trend and magnitude of the ground water elevation changes in MW-1, MW-2, and MW-6 were very similar. MW-9, however, appeared to show minor variations unrelated to those measured in the other wells.

Data collected during aquifer testing is presented in Appendix I and discussed below.

5.2 Discussion of Pumping Test Results

The pumping test results indicate the deeper water-bearing zone has an average transmissivity value of approximately 8 feet² per minute (ft²/min) and a hydraulic conductivity value of 1.6 ft/min. The deeper water-bearing zone consists primarily of a sandy gravel to gravelly sand. Sand gravel mixtures generally have hydraulic conductivity values on the order of 0.05 to 3 ft/min (Heath, 1989).

Decreasing water levels were measured during Pumping Test A and Pumping Test B. It is not possible to determine whether the decreasing water levels in the wells are a function of a general decrease in water level in the aquifer, a change in barometric pressure or a result of pumping.

Similar behavior of the water levels during the tests suggests that water levels were generally rising during this time, and that the decreases were due to the pumping tests. However, a very similar decrease occurred March 4, when no test was performed, suggesting barometric effects or other factors may be responsible for changing water levels. The data was not adjusted for barometric effects.

Aquifer transmissivity (T) values were calculated from the unadjusted drawdown data using the aquifer testing program AQTESOLV (Geraghty and Miller 1989) to fit the data curves to a Hantush (1960) theoretical solution. The Hantush method of solution was selected based upon available hydrogeologic information and the drawdown data which indicates that the deeper water-bearing zone behaves like a leaky confined aquifer under transient flow conditions. It should be noted that if the general water levels at the site were rising during the aquifer tests, the calculated transmissivity values would underestimate the actual transmissivity of the aquifer. The calculated values of transmissivity are shown below. The values are all within the same order of magnitude.

| <u>Well ID</u> | <u>T(ft²/min)</u> | <u>Test</u> |
|----------------|------------------------------|-------------|
| MW-1 | 9.6 | B |
| MW-2 | 6.6 | A |
| MW-4 | 5.8 | A |
| MW-4 | 9.8 | B |

5.3 Discussion of Background Water Levels

Water levels in the deeper aquifer at the site vary significantly over relatively short time periods. Variations of up to four feet have been observed over a 5 day period (Zone 7, 1989). Background water level measurements collected between April 4 and 11, 1992 indicate the trend and magnitude of water level changes in MW-1, MW-2, and MW-6 were similar. However, MW-9 appeared to show variations unrelated to those of the other wells.

It was not possible to determine whether the decrease in water level measured in MW-6 during Pumping Test A on March 2, 1992 is a function of a general decrease in water level in the aquifer, a change in barometric pressure or a result of pumping from MW-1. A similar situation was observed in MW-6 during Pumping Test B on March 3, 1992; the water level increased by 0.02 feet during the first part of the test, then decreased by 0.06 feet during the remainder of the test.

PART III CONCLUSIONS

1.0 HYDROCARBON DISTRIBUTION IN SOIL

Hydrocarbons are apparently concentrated in shallow soils near elbow junctions in the former product lines south of the western dispenser island and north of the UST cavity.

The former UST's may have been a source for the hydrocarbons as evidenced by elevated hydrocarbon concentrations in soil samples collected from the northwest corner of the UST cavity.

Hydrocarbon distribution in soil from 20 to 40 fbg, when compared to stratigraphy defined by CPT soundings, indicates hydrocarbon migration in the vadose zone may have been controlled by lenses of coarser sediments within the silty clays. The local distribution of hydrocarbons beneath the trenches south of the western dispenser island is most likely controlled by the same low permeability stratigraphy that apparently perches the shallow water-bearing zone in the vicinity of MW-5.

Hydrocarbon migration in the capillary fringe is also facilitated by the predominance of coarser sediments occurring in this interval.

The lateral extent of hydrocarbon-affected soil to 15 fbg has been assessed. The lateral extent of hydrocarbon-affected soil between 16 and 40 fbg has been approximately defined to the south of the source areas, but has not completely defined to the west of the product line trench, east of SB-15, and north of SB-7 and MW-2.

Preliminary indications are that hydrocarbon-affected soil to 15 fbg may be amenable to remediation through excavation, and to vapor extraction in the deeper subsurface. Vacuum extraction testing will be necessary to determine the viability of vapor extraction as a remedial method.

2.0 HYDROCARBON DISTRIBUTION IN GROUND WATER

The extent of the dissolved phase hydrocarbons in the shallow water-bearing zone has not been completely defined. All monitoring wells completed in the shallow water-bearing zone are dry at this time, and all wells in the shallow zone have historically contained hydrocarbons at varying concentrations.

The extent of liquid-phase hydrocarbons is restricted to within site boundaries; found only in MW-2 in January 1992.

The extent of the dissolved-phase hydrocarbons in the deeper water-bearing zone has not been completely defined. All wells completed in the deeper zone have historically contained dissolved-phase hydrocarbons at varying concentrations.

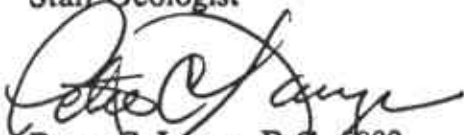
Elevated benzene concentrations in ground water appear to be contained in a northeast-southwest trend across the site, which roughly corresponds with elevated adsorbed-phase plume. Benzene concentrations in ground water samples collected from the monitoring wells between January 8 and February 4, 1992, and CPT points between August 14 and 21, 1991, are shown in Figure 3.

The high transmissivity of the aquifer material indicates that pumping water from the main aquifer may not be an efficient method of remediation. Large quantities of clean water would have to be removed to induce a capture zone.

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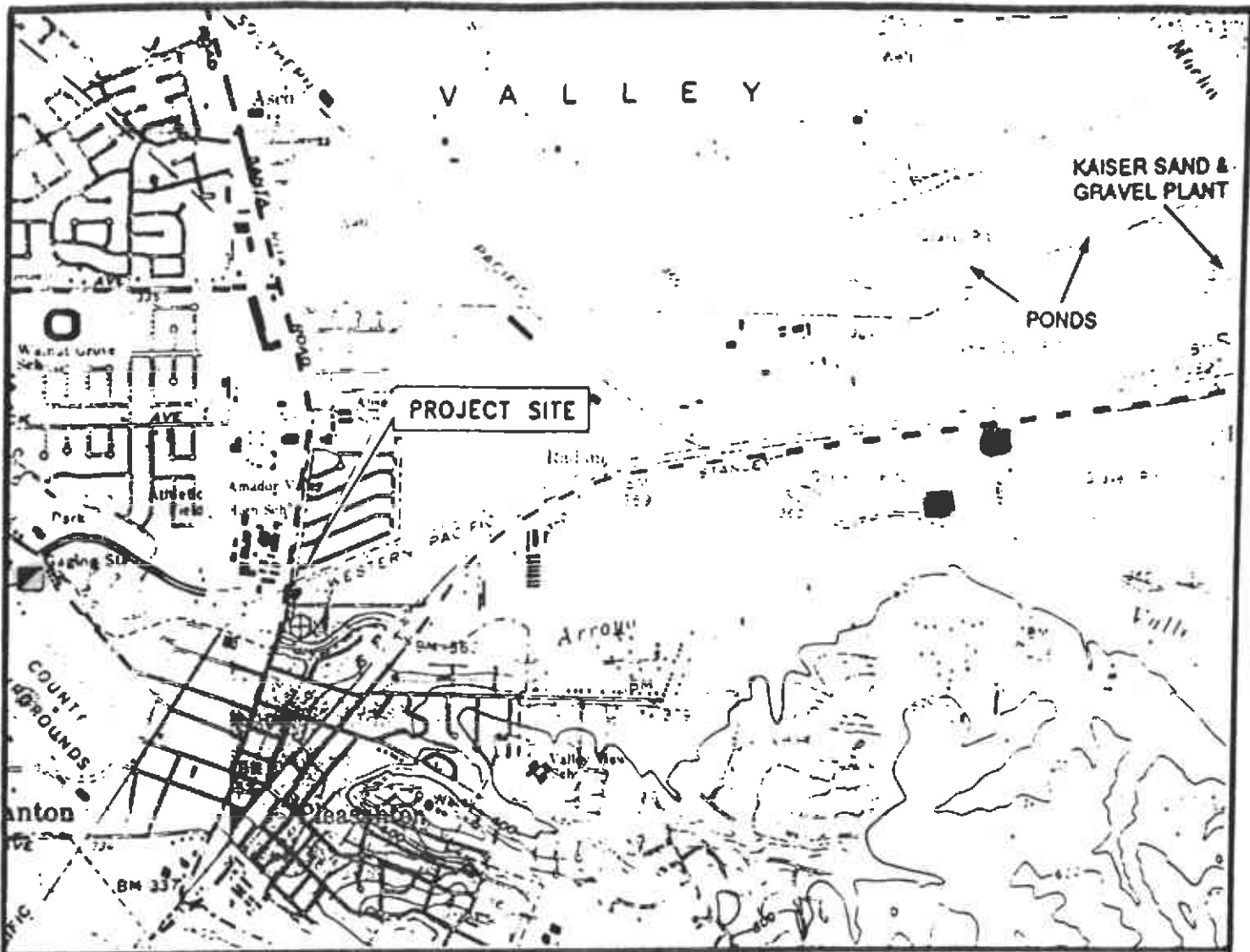
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Associate, Northern California Operations

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



LEGEND

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

SITE VICINITY MAP

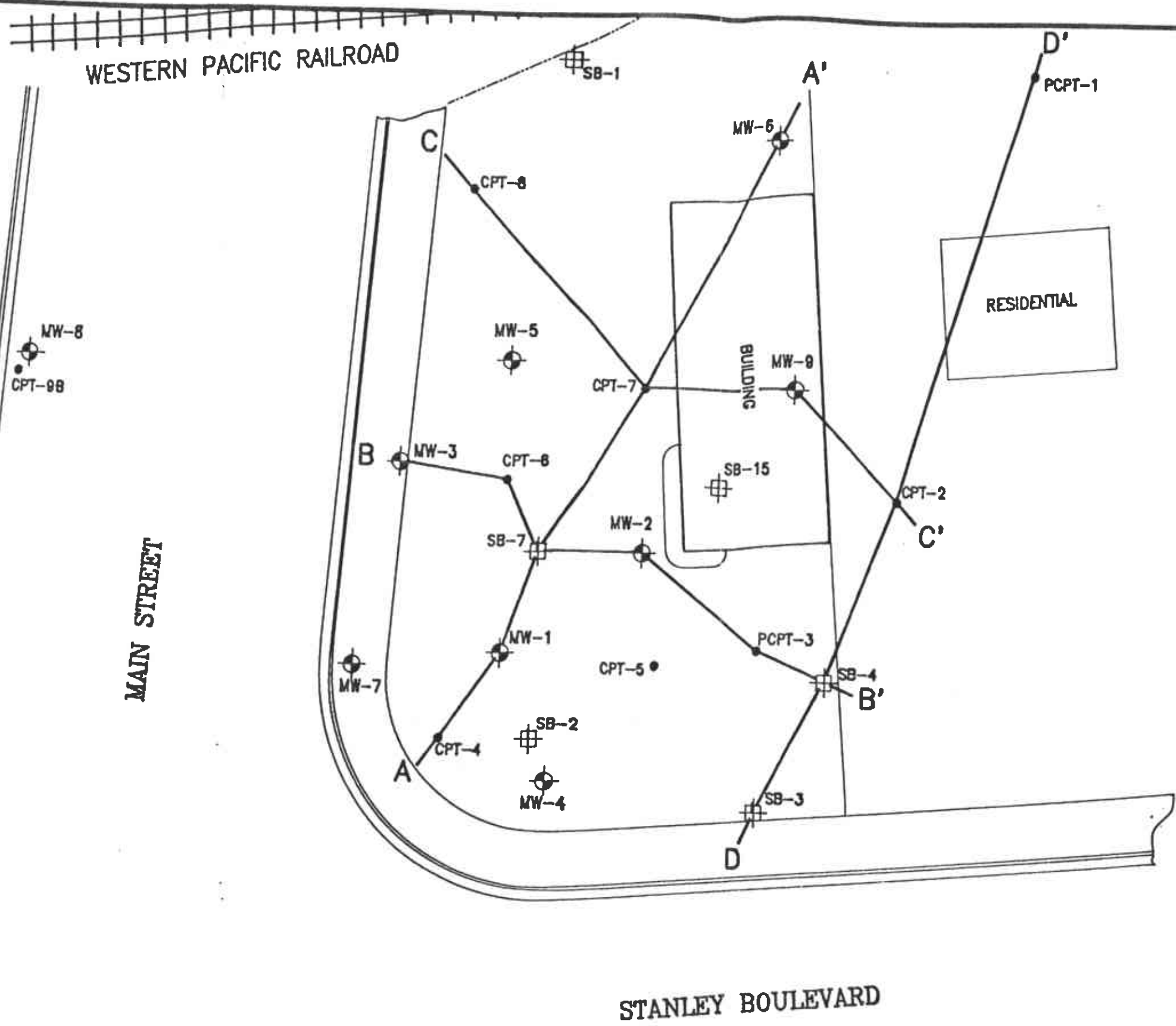
Former Mobil Station 04-H6J
1024 Main Street
Pleasanton, California

FIGURE 1



ALTON GEOSCIENCE
Pleasanton, California

Project No. 31-0065



WESTERN PACIFIC RAILROAD

MW-8
CPT-9B

MAIN STREET

C

B

A

A'

D'

RESIDENTIAL

BUILDING

CPT-7

CPT-2

B'

C'

CPT-5

PCPT-3




D

STANLEY BOULEVARD



APPROXIMATE SCALE IN FEET

LEGEND:

-  MONITORING WELL
-  SOIL BORING
-  CONE PENETROMETER TEST

A A' LINE OF CROSS SECTION

NOTE:
ALL STRUCTURE & WELL LOCATIONS ARE ESTIMATED.

FIGURE 2: SITE PLAN

FORMER MOBIL STATION 04-H6J
1024 MAIN STREET
PLEASANTON, CALIFORNIA

 **ALTON GEOSCIENCE**
Pleasanton, California

PROJECT NO. 30-0065-05

WESTERN PACIFIC RAILROAD

MW-8
CPT-9B
ND

MAIN STREET

CPT-8
ND

MW-5
64

CPT-7
8.6

MW-6
81

PCPT-1
4.0

RESIDENTIAL

BUILDING
MW-9
3,000

MW-3
8.9

CPT-6
0.34

MW-2
110

SB-15

CPT-2
ND

MW-7
7.8

MW-1
270

CPT-5

PCPT-3
16

SB-4

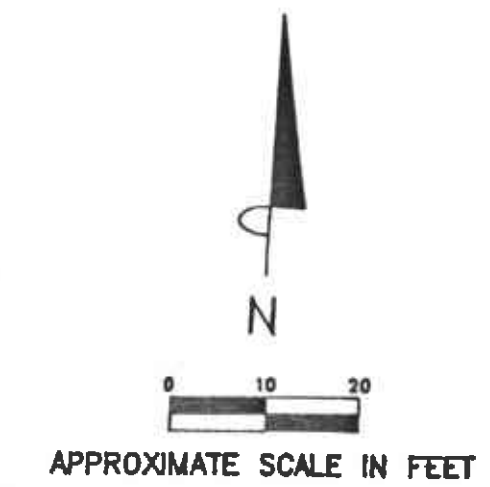
CPT-4
10

SB-2

MW-4
600

SB-3

STANLEY BOULEVARD



LEGEND:

- MONITORING WELL
- SOIL BORING
- CONE PENETROMETER TEST
- 0.34 BENZENE CONCENTRATIONS IN PARTS PER BILLION (ppb)
- ** WELL DRY 1/8/92
- ND NOT DETECTED AT OR ABOVE REPORTED DETECTION LIMITS

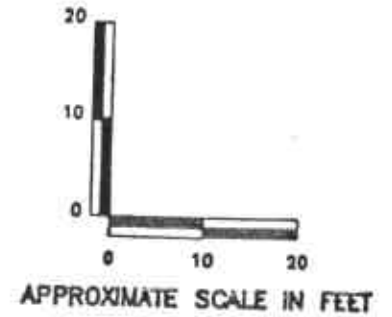
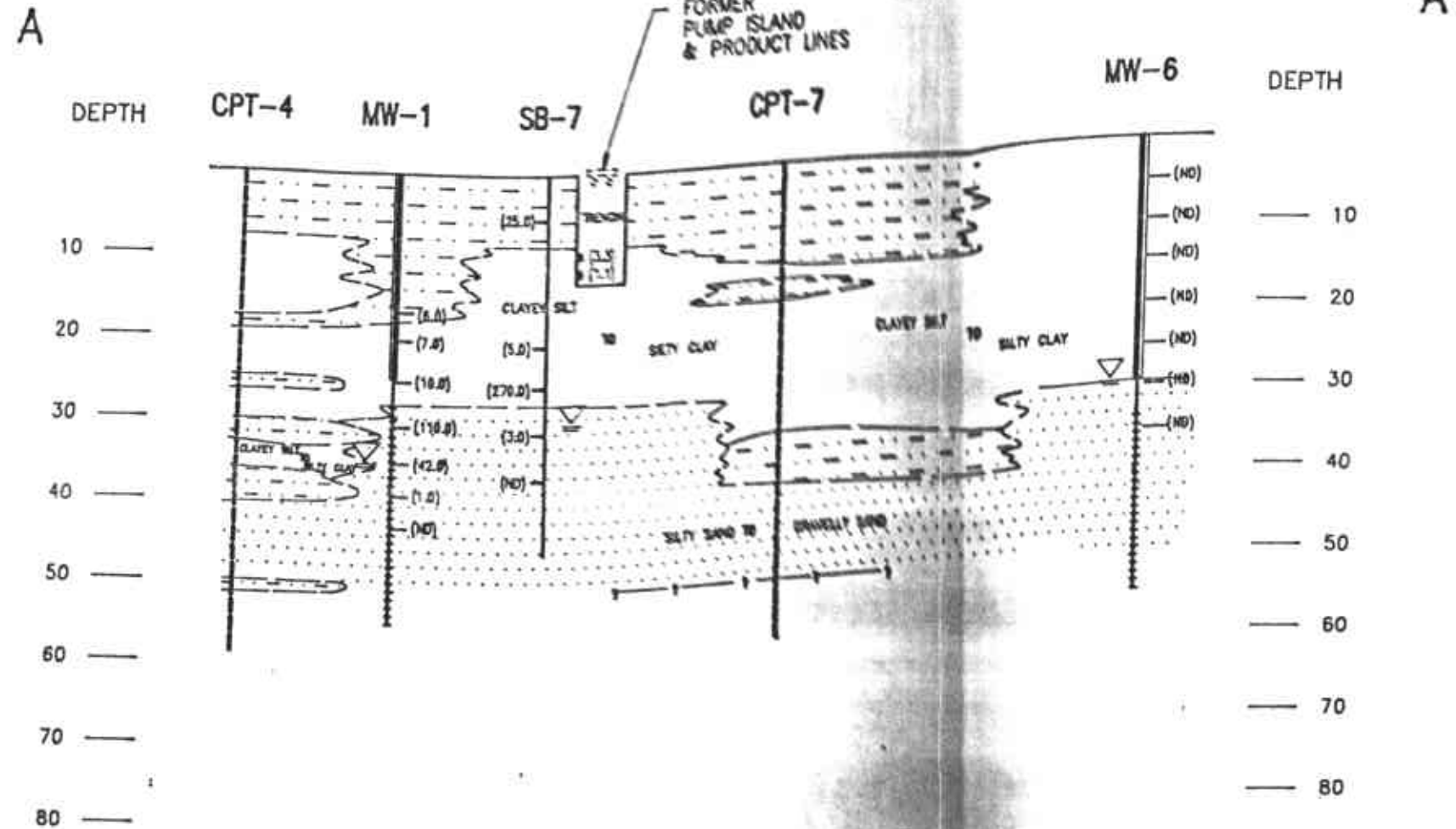
NOTE:
 1. ALL STRUCTURE & WELL LOCATIONS ARE ESTIMATED.
 2. BENZENE CONCENTRATIONS ARE FROM ANALYTICAL RESULTS FROM THE JANUARY 6, 1992 SAMPLING EVENT EXCEPT MW-9 WHICH WAS SAMPLED FEBRUARY 4, 1992 & CPT POINTS WHICH WERE SAMPLED BETWEEN AUGUST 14 & 21, 1992.

FIGURE 3: BENZENE CONCENTRATIONS IN GROUND WATER

FORMER MOBIL STATION 04-H6J
1024 MAIN STREET
PLEASANTON, CALIFORNIA

ALTON GEOSCIENCE
Pleasanton, California

PROJECT NO. 30-0065-05



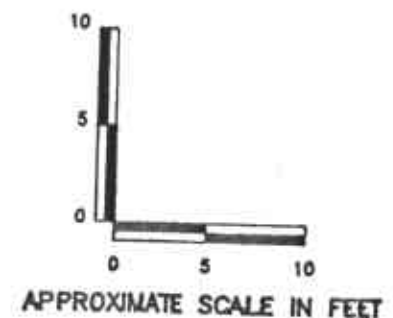
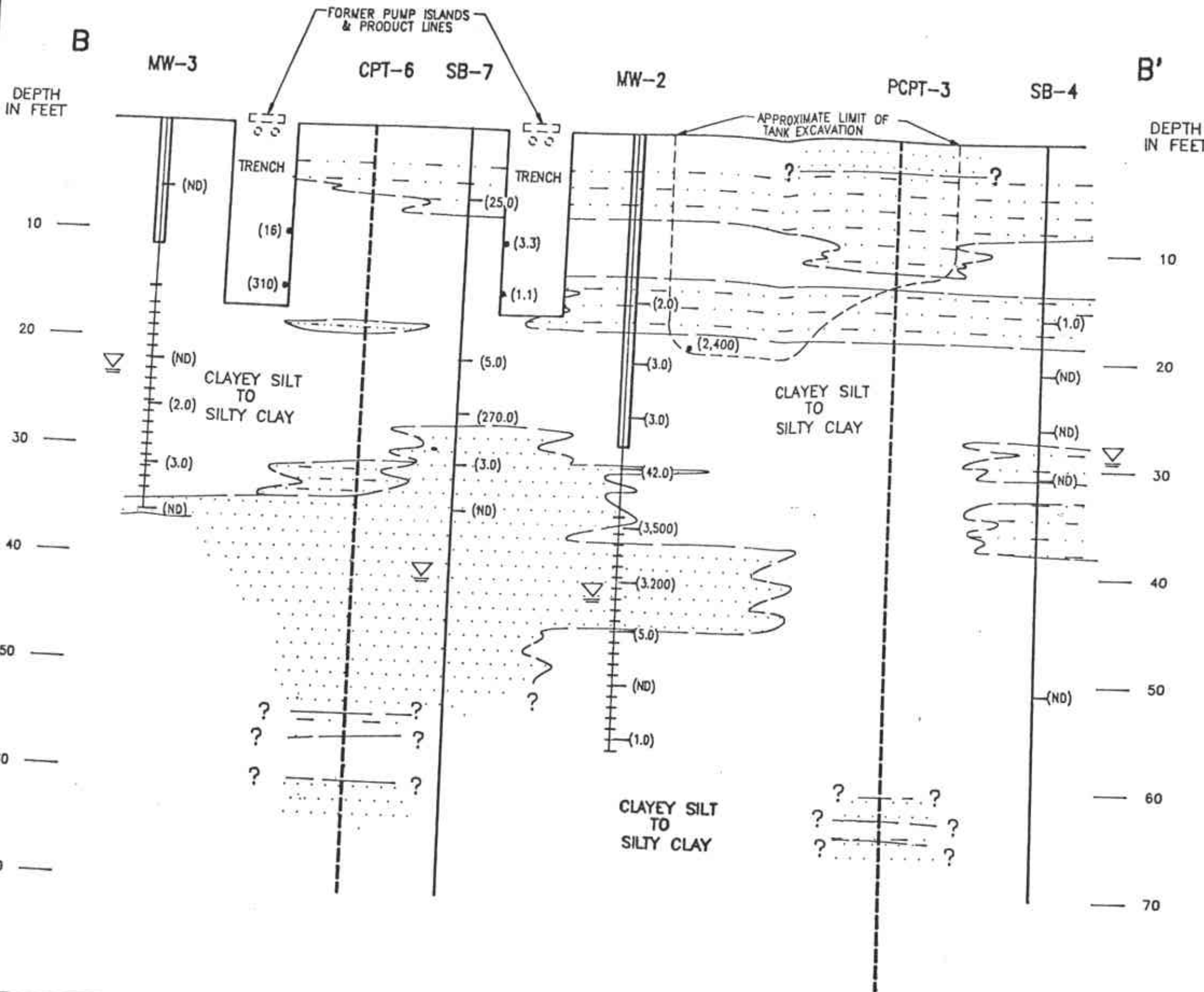
- LEGEND:**
- GROUND WATER MONITORING WELL SHOWING SEAL AND SLOTTING
 - GEOLOGIC CONTACT
 - WATER ENCOUNTERED DURING DRILLING
 - CONCENTRATIONS OF TPH-G IN SOIL (ppm)
 - SILTY SAND TO GRAVELLY SAND
 - SILT TO SANDY SILT
 - CLAYEY SILT TO SILTY CLAY

FIGURE 4: HYDROGEOLOGIC CROSS SECTION A-A'

FORMER MOBIL STATION 04-H6J
 1024 MAIN STREET
 PLEASANTON, CALIFORNIA

ALTON GEOSCIENCE
 Pleasanton, California

PROJECT NO. 30-0065-05



- LEGEND:
- GROUND WATER MONITORING WELL SHOWING SEAL AND SLOTTING
 - GEOLOGIC CONTACT
 - WATER ENCOUNTERED DURING DRILLING
 - (3.0) CONCENTRATIONS OF TPH-G IN SOIL (ppm)
 - SILTY SAND TO GRAVELLY SAND
 - SILT TO SANDY SILT
 - CLAYEY SILT TO SILTY CLAY
 - ND NOT DETECTED AT OR ABOVE REPORTED DETECTION LIMITS

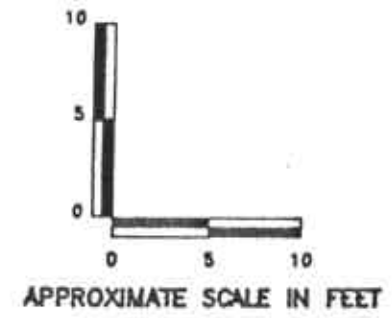
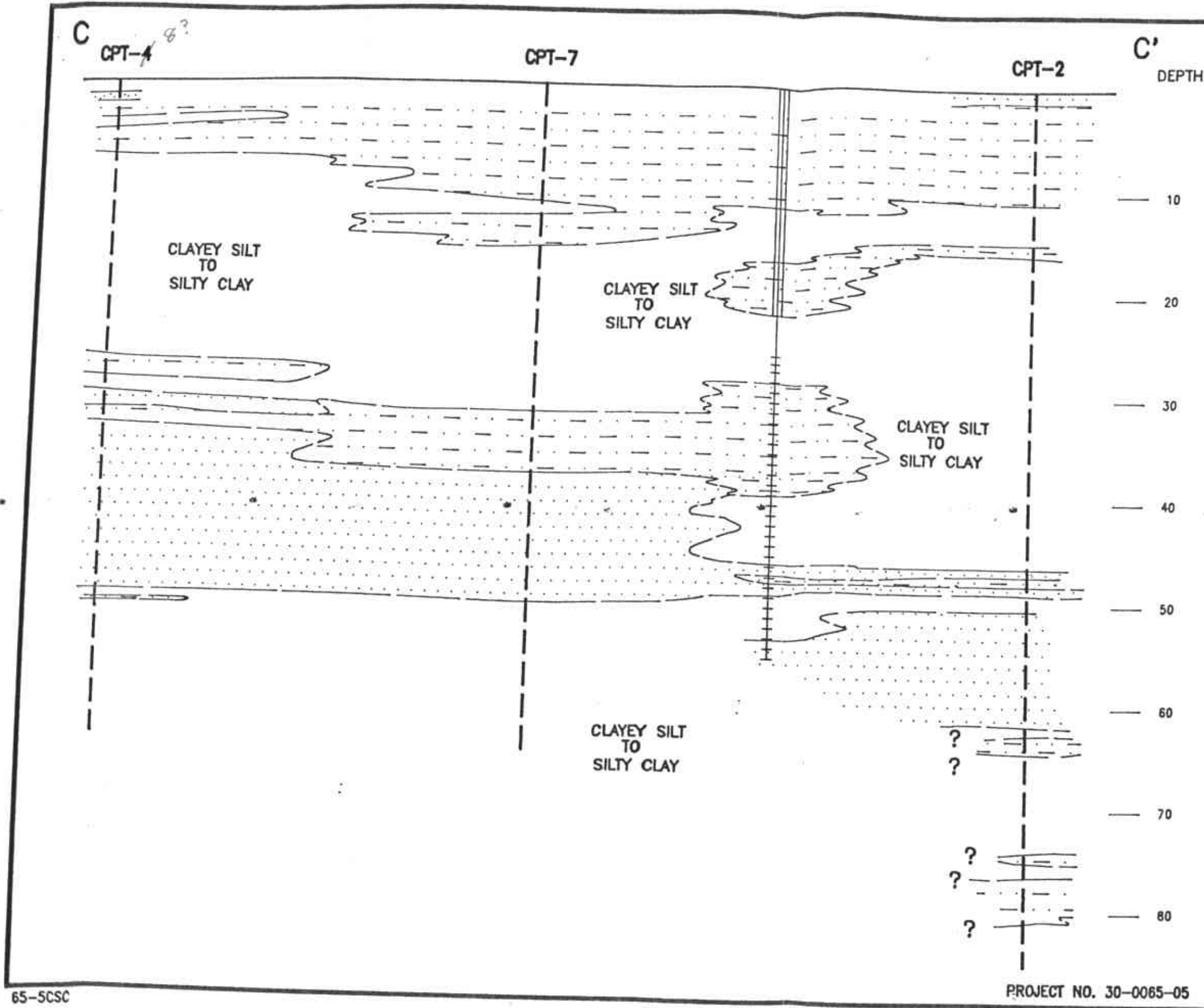
FIGURE 5: HYDROGEOLOGIC CROSS SECTION B-B'

FORMER MOBIL STATION 04-H6J
1024 MAIN STREET
PLEASANTON, CALIFORNIA



65-5CSB

PROJECT NO. 30-0065-05











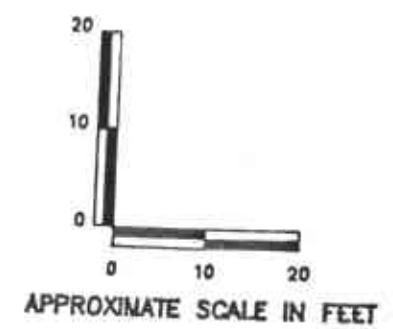
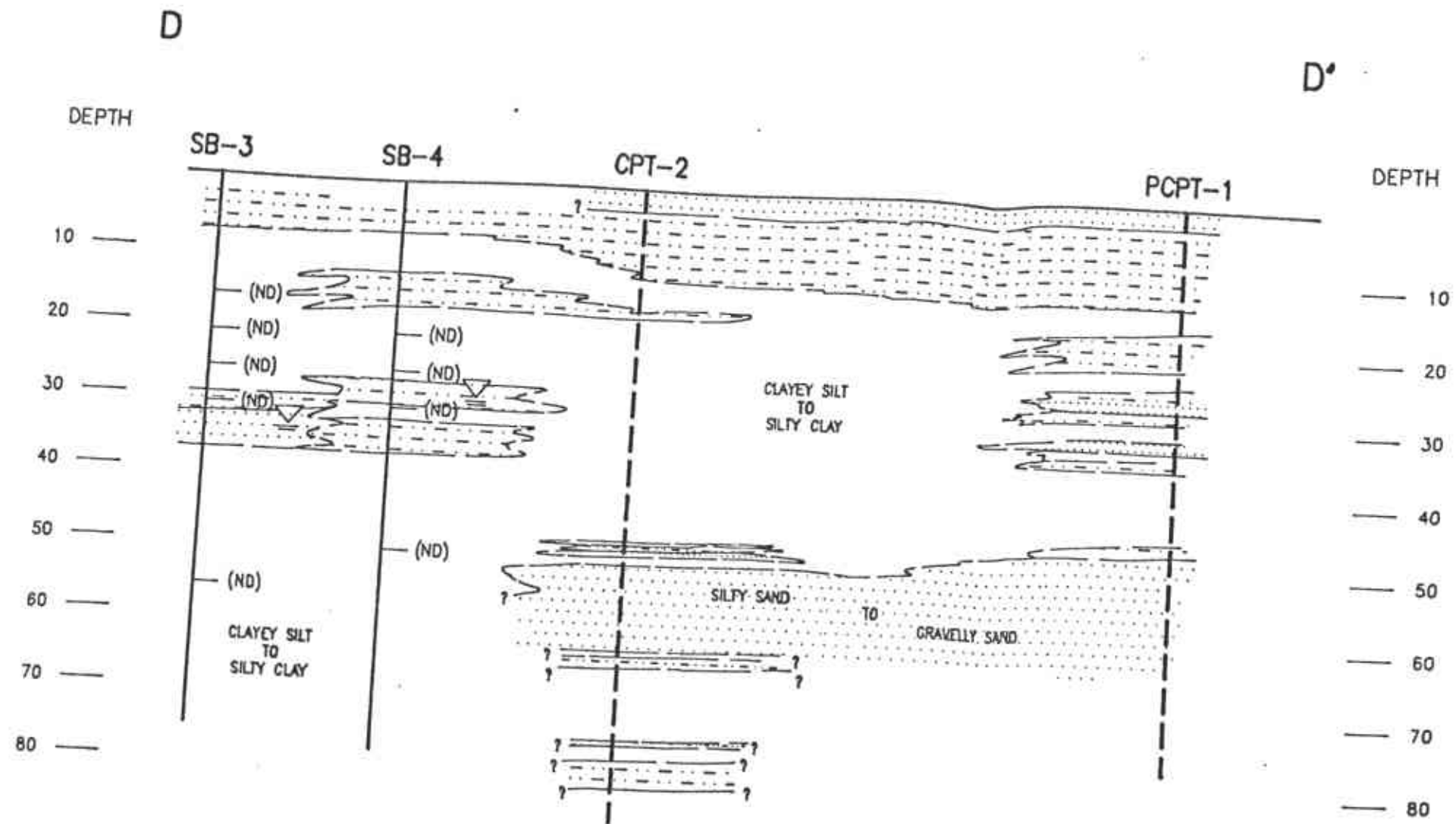
- LEGEND:**
-  GROUND WATER MONITORING WELL SHOWING SEAL AND SLOTTING
 -  GEOLOGIC CONTACT
 -  WATER ENCOUNTERED DURING DRILLING
 -  CONCENTRATIONS OF TPH-G IN SOIL (ppm)
 -  SILTY SAND TO GRAVELLY SAND
 -  SILT TO SANDY SILT
 -  CLAYEY SILT TO SILTY CLAY

FIGURE 6: HYDROGEOLOGIC CROSS SECTION C-C'

FORMER MOBIL STATION 04-H&J
 1024 MAIN STREET
 PLEASANTON, CALIFORNIA

 **ALTON GEOSCIENCE**
 Pleasanton, California

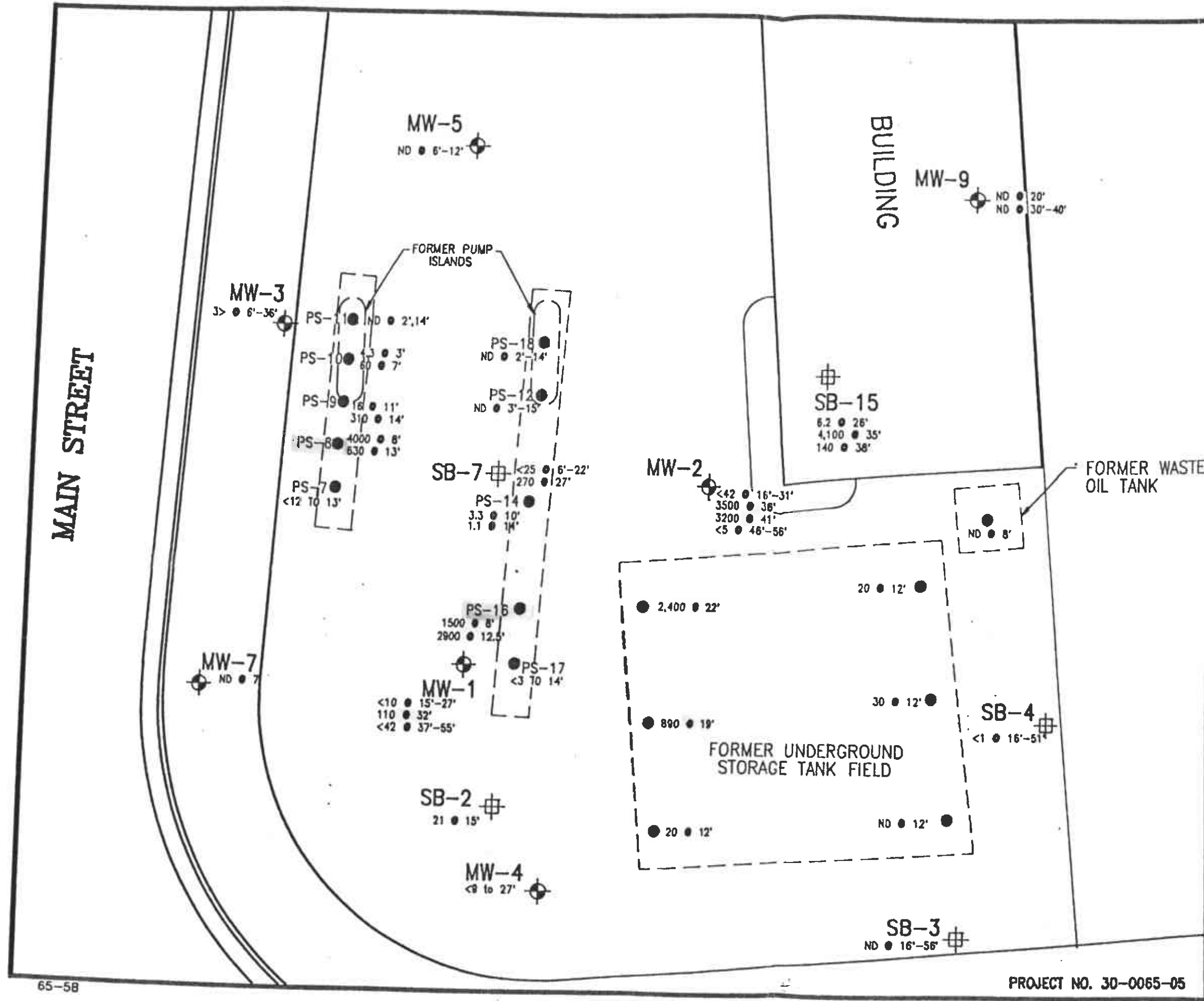


- LEGEND:
- GROUND WATER MONITORING WELL SHOWING SEAL AND SLOTTING
 - GEOLOGIC CONTACT
 - WATER ENCOUNTERED DURING DRILLING
 - (3.0) CONCENTRATIONS OF TPH-G IN SOIL (ppm)
 - SILTY SAND TO GRAVELLY SAND
 - SILT TO SANDY SILT
 - CLAYEY SILT TO SILTY CLAY
 - ND NOT DETECTED AT OR ABOVE REPORTED DETECTION LIMITS

FIGURE 7: HYDROGEOLOGIC CROSS SECTION D-D'

FORMER MOBIL STATION 04-H&J
 1024 MAIN STREET
 PLEASANTON, CALIFORNIA

ALTON GEOSCIENCE
 Pleasanton, California



N

0 5 10

APPROXIMATE SCALE IN FEET

LEGEND:

- MONITORING WELL
- SOIL SAMPLING LOCATION
- SOIL BORING LOCATION
- 3.3 @ 10' TPH-G CONCENTRATION IN SOIL SAMPLES (PARTS PER MILLION @ DEPTH)
- FORMER PUMP ISLAND
- APPROXIMATE LIMIT OF EXCAVATION
- ND NOT DETECTED AT OR ABOVE REPORTED DETECTION LIMITS

FIGURE 8: PUMP ISLAND SOIL SAMPLES

FORMER MOBIL STATION 04-H6J
1024 MAIN STREET
PLEASANTON, CALIFORNIA

ALTON GEOSCIENCE
Pleasanton, California

TABLE 1
Summary of Results of Ground Water Monitoring and Sample Analysis
 Former Mobil Station 04-H6J
 1024 Main Street Pleasanton, California
 Project No. 30-9065

Concentrations in Parts Per Billion (ppb)

| SAMPLE ID | DATE OF SAMPLING | CASING ELEVATION | DEPTH TO WATER | GROUND WATER ELEVATION | PRODUCT THICKNESS | TPH-G | TPH-D | B | T | E | X | HVOCs | Organic Lead | Total Lead | LAB |
|-----------|------------------|------------------|----------------|------------------------|-------------------|--------|---------|-------|-------|--------|-------|-------|--------------|------------|-----|
| MW-1 | 04/16/90 | 348.03 | 21.80 | 326.43 | ---- | 3000 | ---- | 73 | 13 | 3 | 180 | 46 a | ND<10 | ---- | SAL |
| MW-1 | 10/18/90 | 348.03 | 43.18 | 304.85 | ---- | 8000 | ND<1000 | 700 | 360 | 170 | 480 | 84 a | ---- | ---- | SAL |
| MW-1 | 08/08/91 | 348.03 | 38.85 | 309.28 | ---- | 2000 | ---- | 310 | 340 | 110 | 340 | ND * | ---- | ND<6.0 | SAL |
| MW-1 | 01/08/92 | 348.03 | 38.88 | 308.35 | ---- | 2400 | ---- | 270 | 370 | 18 | 340 | 14 a | ND<80 | ---- | SAL |
| MW-1 | 04/30/92 | 348.03 | 39.83 | 308.10 | ---- | 1300 | ---- | 150 | 120 | 12 | 160 | 4.9 a | ---- | ---- | SEO |
| MW-2 | 04/16/90 | 348.45 | 45.27 | 303.18 | ---- | 84000 | ---- | 5500 | 7800 | 1800 | 7800 | 200 a | ND<10 | ---- | SAL |
| MW-2 | 10/18/90 | 348.45 | 43.18 | 305.27 | ---- | 83000 | 10000 | 6800 | 9100 | 2400 | 11000 | 480 a | ---- | ---- | SAL |
| MW-2 | 08/08/91 | 348.45 | 39.19 | 309.26 | ---- | 160000 | ---- | 16000 | 26000 | 4300 | 19000 | ND * | ---- | 380 | SEO |
| MW-2 | 01/08/92 | 348.45 | 39.40 | 309.05 | 0.92 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | NA |
| MW-2 | 04/30/92 | 348.45 | 40.50 | 307.95 | ---- | 71000 | ---- | 9200 | 18000 | 3700 | 18000 | 420 a | ---- | ---- | NA |
| MW-3 | 04/16/90 | 347.97 | 21.80 | 326.37 | ---- | 2100 | ---- | 32 | 88 | 31 | 170 | 117 a | ND<10 | ---- | SAL |
| MW-3 | 10/18/90 | 347.97 | 14.28 | 338.69 | ---- | 110 | ND<1000 | 3 | 3 | 1 | 5 | 2 a | ---- | ---- | SAL |
| MW-3 ** | 08/08/91 | 347.97 | 33.19 | 314.78 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | NA |
| MW-3 | 01/08/92 | 347.97 | 32.38 | 315.81 | ---- | 680 | ---- | 8.9 | 26 | 8.5 | 72 | 6.7 a | ---- | ---- | NA |
| MW-3 ** | 04/30/92 | 347.97 | 33.15 | 314.82 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | NA |
| MW-4 | 10/18/90 | 348.07 | 43.18 | 304.91 | ---- | 8900 | 2000 | 180 | 500 | 200 | 1200 | 8 a | ---- | ---- | SAL |
| MW-4 | 08/08/91 | 348.07 | 38.85 | 309.42 | ---- | 8900 | ---- | 320 | 420 | 220 | 850 | ND * | ---- | ND<6.0 | SEO |
| MW-4 | 01/08/92 | 348.07 | 38.85 | 309.42 | ---- | 3400 | ---- | 600 | 680 | 220 | 1100 | 9.2 a | ND<80 | ---- | SEO |
| MW-4 | 04/30/92 | 348.07 | 39.88 | 308.18 | ---- | 7200 | ---- | 680 | 1200 | 210 | 1200 | ND * | ---- | ---- | SEO |
| MW-5 *** | 10/18/90 | 347.97 | *** | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | NA |
| MW-5 ** | 08/08/91 | 347.97 | 34.25 | 313.72 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | NA |
| MW-5 ** | 01/08/92 | 347.97 | 34.22 | 313.75 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | NA |
| MW-5 ** | 04/30/92 | 347.97 | ** | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | NA |
| MW-6 | 10/18/90 | 348.23 | 43.60 | 304.63 | ---- | 9000 | ND<1000 | 1300 | 150 | 120 | 85 | 140 a | ---- | ---- | SEO |
| MW-6 | 08/08/91 | 348.23 | 39.07 | 308.18 | ---- | 1800 | ---- | 220 | 10 | 5.2 | 14 | 8.9 a | ---- | ND<6.0 | SEO |
| MW-6 | 01/08/92 | 348.23 | 39.18 | 308.05 | ---- | 370 | ---- | 81 | 3.9 | 4.5 | 2.8 | 5.4 a | ND<80 | ---- | SEO |
| MW-6 | 04/30/92 | 348.23 | 40.48 | 307.77 | ---- | 810 | ---- | 180 | 8.4 | 6.8 | 3.3 | 7.0 a | ---- | ---- | SEO |
| MW-7 | 10/18/90 | 347.90 | 9.28 | 338.64 | ---- | ND<80 | ND<1000 | 0.3 | 0.5 | ND<0.3 | 0.8 | ND * | ---- | ---- | SAL |
| MW-7 ** | 08/08/91 | 347.90 | 14.20 | 323.70 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | NA |
| MW-7 | 01/08/92 | 347.90 | 23.79 | 324.11 | ---- | 220 | ---- | 7.8 | 1.7 | ND<0.3 | 0.55 | ---- | ---- | ---- | SEO |
| MW-7 ** | 04/30/92 | 347.90 | 24.40 | 323.50 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | NA |

TABLE 1
Summary of Results of Ground Water Monitoring and Sample Analysis
Former Mobil Station 04-H6J
1024 Main Street Pleasanton, California
Project No. 20-0065

Concentrations in Parts Per Billion (ppb)

| SAMPLE ID | DATE OF SAMPLING | CASING ELEVATION | DEPTH TO WATER | GROUND WATER ELEVATION | PRODUCT THICKNESS | TPH-G | TPH-D | B | T | E | X | HNOCs | Organic Lead | Total Lead | LAB |
|-----------|------------------|------------------|----------------|------------------------|-------------------|---------|-----------|-----------|-----------|-----------|-----------|-------|--------------|------------|-----|
| IWW-8 | 10/16/00 | 348.90 | 11.30 | 337.60 | ---- | 600 | ND < 1000 | 3 | 5 | 7 | 62 | ND * | ---- | ---- | SAL |
| MW-8 ** | 08/05/01 | 348.90 | 29.80 | 320.20 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | NA |
| MW-8 ** | 01/08/02 | 348.90 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | NA |
| MW-8 ** | 04/30/02 | 348.90 | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | ---- | NA |
| MW-9 | 02/04/02 | 348.53 | 43.54 | 304.99 | ---- | 16000 | ---- | 3000 | 740 | 1200 | 2500 | 66 a | ND < 80 | ---- | SEO |
| MW-9 | 04/30/02 | 348.53 | 42.63 | 305.70 | ---- | 8600 | ---- | 1000 | 120 | 410 | 350 | ND * | ---- | ---- | SEO |
| PCPT-1 | 08/16/01 | ---- | ---- | ---- | ---- | 69 | ---- | 4 | 0.32 | 0.30 | 0.49 | ---- | ---- | 20 | SEO |
| CPT-2 | 08/16/01 | ---- | ---- | ---- | ---- | ND < 30 | ---- | ND < 0.30 | ND < 0.30 | ND < 0.30 | ND < 0.30 | ---- | ---- | 40 | SEO |
| PCPT-3 | 08/16/01 | ---- | ---- | ---- | ---- | 380 | ---- | 10 | 32 | 5.6 | 50 | ---- | ---- | 60 | SEO |
| CPT-4 | 08/21/01 | ---- | ---- | ---- | ---- | 350 | ---- | 10 | 9 | 2.9 | 8.8 | ---- | ---- | 70 | SEO |
| CPT-6 | 08/14/01 | ---- | ---- | ---- | ---- | ND < 30 | ---- | 0.34 | 0.41 | ND < 0.30 | 0.49 | ---- | ---- | 36 | SEO |
| CPT-7 | 08/14/01 | ---- | ---- | ---- | ---- | 670 | ---- | 8.8 | 3.2 | 1.3 | 1.7 | ---- | ---- | ND < 5.0 | SEO |
| CPT-8 | 08/14/01 | ---- | ---- | ---- | ---- | ND < 30 | ---- | ND < 0.30 | 0.34 | ND < 0.30 | 0.4 | ---- | ---- | ---- | SEO |
| CPT-08 | 08/21/01 | ---- | ---- | ---- | ---- | ND < 30 | ---- | ND < 0.30 | ND < 0.30 | ND < 0.30 | ND < 0.30 | ---- | ---- | 60 | SEO |

EXPLANATION OF ABBREVIATIONS

TPH-G :total petroleum hydrocarbons as gasoline
 TPH-D :total petroleum hydrocarbons as diesel
 B :Benzene
 T :Toluene
 E :ethylbenzene
 X :total xylenes
 TOB :total oil and grease
 a :1,2-dichloroethane

ND :not detected at reported detection limit.
 ---- :not applicable/not analyzed
 * :detection limits vary dependent on compound
 ** :well dry/insufficient water in well to sample
 *** :well inaccessible
 SAL :Superior Analytical Laboratories
 SEO :Sequetis Analytical

TABLE 2
 Summary of Results of Soil Sampling
 Former Mobil Station 04-H6J
 1024 Main Street, Pleasanton, California
 Project No. 30-0065

Concentrations in Parts Per Million (ppm)

| SAMPLE ID | DATE OF SAMPLING | SAMPLE DEPTH | TPH-G | TPH-D | B | T | E | X | TOG | HVOCs | ORGANIC LEAD | LAB |
|-----------|------------------|--------------|--------|-------|----------|----------|----------|----------|-----|-------|--------------|-----|
| SB-1 | 12/28/89 | 4.5-5.0' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | ND<0.5 | SAL |
| | 12/28/89 | 9.5-10.0' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | ND<0.5 | SAL |
| | 12/28/89 | 14.5-15.0' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | ND<0.5 | SAL |
| | 12/28/89 | 20.5-30.0' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | ND<0.5 | SAL |
| SB-2 | 12/28/89 | 4.5-5.0' | ND<1.0 | --- | 0.013 | 0.021 | 0.011 | 0.040 | --- | --- | ND<0.5 | SAL |
| | 12/28/89 | 9.5-10.0' | ND<1.0 | --- | 0.009 | 0.010 | ND<0.003 | 0.021 | --- | --- | ND<0.5 | SAL |
| | 12/28/89 | 14.5-15.0' | ND<1.0 | --- | 0.021 | 0.009 | ND<0.003 | 0.012 | --- | --- | ND<0.5 | SAL |
| | 12/28/89 | 19.5-20.0' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | ND<0.5 | SAL |
| | 12/28/89 | 29.5-30.0' | ND<1.0 | --- | 0.014 | 0.014 | 0.005 | 0.008 | --- | --- | ND<0.5 | SAL |
| | 12/28/89 | 36.5-39.0' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | ND<0.5 | SAL |
| SB-3 | 03/26/90 | 16.0-16.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | --- | SAL |
| | 03/26/90 | 21.0-21.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | --- | SAL |
| | 03/26/90 | 26.0-26.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | --- | SAL |
| | 03/26/90 | 31.0-31.5' | ND<1.0 | --- | 0.015 | 0.007 | ND<0.003 | 0.005 | --- | --- | --- | SAL |
| | 03/26/90 | 51.0-51.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | --- | SAL |
| SB-4 | 03/21/90 | 16.0-16.5' | 1.0 | --- | 0.020 | 0.010 | 0.008 | 0.140 | --- | --- | --- | SAL |
| | 03/21/90 | 21.0-21.5' | ND<1.0 | --- | 0.066 | 0.005 | 0.052 | 0.016 | --- | --- | --- | SAL |
| | 03/21/90 | 26.0-26.5' | ND<1.0 | --- | 0.25 | 0.008 | 0.050 | ND<0.003 | --- | --- | --- | SAL |
| | 03/21/90 | 31.0-31.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | --- | SAL |
| | 03/21/90 | 56.0-56.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | --- | SAL |
| SB-5/MW-2 | 03/22/90 | 16.0-16.5' | 2.0 | --- | 0.11 | 0.055 | 0.063 | 0.350 | --- | --- | --- | SAL |
| | 03/22/90 | 21.0-21.5' | 3.0 | --- | 0.26 | 0.53 | 0.090 | 0.510 | --- | --- | --- | SAL |
| | 03/22/90 | 26.0-26.5' | 3.0 | --- | 0.47 | 0.79 | 0.079 | 0.450 | --- | --- | --- | SAL |
| | 03/22/90 | 31.0-31.5' | 42 | --- | 2.1 | 5.2 | 1.1 | 5.3 | --- | --- | --- | SAL |
| | 03/22/90 | 36.0-36.5' | 3500 | --- | 53 | 340 | 120 | 610 | --- | --- | --- | SAL |
| | 03/22/90 | 41.0-41.5' | 3200 | --- | 16 | 130 | 94 | 450 | --- | --- | --- | SAL |
| | 03/23/90 | 46.0-46.5' | 5.0 | --- | 0.079 | 0.040 | 0.051 | 0.053 | --- | --- | --- | SAL |
| | 03/23/90 | 51.0-51.5' | ND<1.0 | --- | 0.016 | 0.026 | 0.016 | 0.065 | --- | --- | --- | SAL |
| | 03/23/90 | 56.0-56.5' | 1.0 | --- | 0.032 | 0.058 | 0.033 | 0.094 | --- | --- | --- | SAL |
| SB-6/MW-1 | 03/21/90 | 15.0-15.5' | 6.0 | --- | 0.15 | 0.67 | 0.12 | 0.720 | --- | --- | --- | SAL |
| | 03/21/90 | 21.0-21.5' | 7.0 | --- | 1.2 | 2.5 | 0.16 | 1.1 | --- | --- | --- | SAL |
| | 03/21/90 | 26.0-26.5' | 10 | --- | 1.1 | 2.2 | 0.24 | 1.3 | --- | --- | --- | SAL |
| | 03/21/90 | 31.0-31.5' | 110 | --- | 1.7 | 8.1 | 2.7 | 13 | --- | --- | --- | SAL |
| | 03/21/90 | 36.0-36.5' | 42 | --- | 0.16 | 0.73 | 0.72 | 3.6 | --- | --- | --- | SAL |
| | 03/21/90 | 41.0-41.5' | 1.0 | --- | 0.004 | 0.009 | 0.005 | 0.016 | --- | --- | --- | SAL |
| | 03/21/90 | 55.0-56.0' | ND<1.0 | --- | 0.005 | 0.007 | 0.003 | 0.009 | --- | --- | --- | SAL |

TABLE 2
 Summary of Results of Soil Sampling
 Former Mobil Station 04-H6J
 1024 Main Street, Pleasanton, California
 Project No. 30-0065

Concentrations in Parts Per Million (ppm)

| SAMPLE ID | DATE OF SAMPLING | SAMPLE DEPTH | TPH-G | TPH-D | B | T | E | X | TOG | HVOCs | ORGANIC LEAD | LAB |
|------------|------------------|--------------|--------|-------|-----------|-----------|-----------|-----------|--------|---------|--------------|-----|
| SB-7 | 03/23/90 | 6.0-6.5' | 25 | --- | 0.032 | 0.32 | 0.52 | 3.2 | --- | --- | --- | SAL |
| | 03/23/90 | 21.0-21.5' | 5.0 | --- | 0.87 | 1.6 | 0.150 | 0.78 | --- | --- | --- | SAL |
| | 03/23/90 | 26.0-26.5' | 270 | --- | 7.8 | 28 | 5.9 | 25 | --- | --- | --- | SAL |
| | 03/23/90 | 31.0-31.5' | 3.0 | --- | 0.38 | 0.76 | 0.083 | 0.46 | --- | --- | --- | SAL |
| | 03/23/90 | 36.0-36.5' | ND<1.0 | --- | 0.009 | 0.014 | 0.050 | 0.024 | --- | --- | --- | SAL |
| SB-8/MW-3 | 03/23/90 | 6.0-6.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | --- | SAL |
| | 03/23/90 | 21.0-21.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | --- | SAL |
| | 03/23/90 | 26.0-26.5' | 2.0 | --- | ND<0.003 | 0.024 | 0.011 | 0.017 | --- | --- | --- | SAL |
| | 03/23/90 | 31.0-31.5' | 3.0 | --- | 0.025 | 0.006 | 0.18 | 0.29 | --- | --- | --- | SAL |
| | 03/23/90 | 36.0-36.5' | ND<1.0 | --- | 0.030 | 0.008 | ND<0.003 | 0.021 | --- | --- | --- | SAL |
| SB-9/MW-4 | 10/08/90 | 6.0-6.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | ND * | --- | SAL |
| | 10/08/90 | 16.0-16.5' | 1.0 | --- | 0.30 | 0.074 | 0.010 | 0.19 | 30 | 0.015 a | --- | SAL |
| | 10/08/90 | 21.0-21.5' | 4.0 | --- | 1.5 | 0.20 | 0.140 | 0.27 | --- | 0.088 a | --- | SAL |
| | 10/08/90 | 26.0-26.5' | 9.0 | --- | 2.8 | 0.044 | 0.84 | 0.099 | ND<20 | 0.13 a | --- | SAL |
| SB-10/MW-5 | 10/08/90 | 6.0-6.5' | ND<1.0 | --- | ND<0.003 | 0.008 | ND<0.003 | 0.015 | --- | ND * | --- | SAL |
| | 10/08/90 | 11.0-11.5' | ND<1.0 | --- | 19 | 6.0 | ND<0.003 | 61 | --- | ND * | --- | SAL |
| SB-11/MW-6 | 10/09/90 | 6.0-6.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | ND * | --- | SAL |
| | 10/09/90 | 11.0-11.5' | ND<1.0 | --- | ND<0.003 | 0.005 | ND<0.003 | ND<0.003 | ND<20 | ND * | --- | SAL |
| | 10/09/90 | 16.0-16.5' | ND<1.0 | --- | ND<0.003 | 0.004 | ND<0.003 | ND<0.003 | --- | ND * | --- | SAL |
| | 10/09/90 | 21.0-21.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | 30 | ND * | --- | SAL |
| | 10/09/90 | 26.0-26.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | ND * | --- | SAL |
| | 10/09/90 | 31.0-31.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | ND<20 | ND * | --- | SAL |
| SB-12/MW-7 | 10/10/90 | 6.0-6.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | ND * | --- | SAL |
| | 10/10/90 | 11.0-11.5' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | ND * | --- | SAL |
| SB-13/MW-8 | 10/10/90 | 6.0-6.5' | ND<1.0 | --- | 0.007 | ND<0.003 | ND<0.003 | ND<0.003 | --- | ND * | --- | SAL |
| SB-14/MW-9 | 01/21/92 | 3.0-3.5' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| | 01/21/92 | 6.0-6.5' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<3.3 | ND * | --- | SEQ |
| | 01/31/92 | 19.50-20.0' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<30 | ND * | --- | SEQ |
| | 01/31/92 | 29.5-30.0' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<30 | ND * | --- | SEQ |
| | 01/31/92 | 34.5-35.0' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<30 | ND * | --- | SEQ |
| | 01/31/92 | 39.5-40.0' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<30 | ND * | --- | SEQ |

TABLE 2
 Summary of Results of Soil Sampling
 Former Mobil Station 04-H6J
 1024 Main Street, Pleasanton, California
 Project No. 30-0065

Concentrations in Parts Per Million (ppm)

| SAMPLE ID | DATE OF SAMPLING | SAMPLE DEPTH | TPH-G | TPH-D | B | T | E | X | TOG | HVOCs | ORGANIC LEAD | LAB |
|-----------|------------------|--------------|--------|-------|-----------|-----------|-----------|-----------|-------|-------|--------------|-----|
| SB-15 | 01/21/92 | 3.0-3.5' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| | 01/21/92 | 6.0-6.5' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | ND * | --- | SEQ |
| | 01/30/92 | 11.5-12.0' | ND<1.0 | --- | ND<0.0050 | 0.011 | ND<0.0050 | 0.014 | ND<30 | ND * | --- | SEQ |
| | 01/30/92 | 17.5-18.0' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<30 | ND * | --- | SEQ |
| | 01/30/92 | 25.0-25.5' | 6.2 | --- | 0.013 | 1.3 | 0.16 | 1.0 | ND<30 | 23 a | --- | SEQ |
| | 01/30/92 | 34.5-35.0' | 4100 | --- | 51 | 270 | 130 | 540 | ND<30 | 300 a | --- | SEQ |
| | 01/30/92 | 37.0-37.5' | 740 | --- | 7.2 | 29 | 18 | 73 | ND<30 | 65 a | --- | SEQ |
| T#1-E | 10/18/89 | 12' | ND<10 | ND<10 | --- | --- | --- | --- | --- | --- | --- | SAL |
| T#1-W | 10/18/89 | 12' | 20 | ND<10 | --- | --- | --- | --- | --- | --- | --- | SAL |
| T#2-E | 10/18/89 | 12' | 8100 | 30 | --- | --- | --- | --- | --- | --- | --- | SAL |
| | T#2-E | 10/18/89 | 16' | 30 | ND<10 | --- | --- | --- | --- | --- | --- | SAL |
| | T#2-W | 10/18/89 | 19' | 800 | 40 | --- | --- | --- | --- | --- | --- | SAL |
| | T#2-W | 10/18/89 | 12' | 6000 | 40 | --- | --- | --- | --- | --- | --- | SAL |
| T#3-E | 10/18/89 | 12' | 20 | ND<10 | --- | --- | --- | --- | --- | --- | --- | SAL |
| T#3-W | 10/18/89 | 12' | 9000 | 30 | --- | --- | --- | --- | --- | --- | --- | SAL |
| T#3-W | 10/18/89 | 22' | 2400 | ND<50 | --- | --- | --- | --- | --- | --- | --- | SAL |
| T#4 | 10/18/89 | 6' | ND<10 | ND<10 | --- | --- | --- | --- | --- | --- | --- | SAL |
| PS-1 | 10/31/90 | 5' | 6.0 | --- | 0.003 | 0.007 | 0.020 | 0.27 | --- | --- | --- | SEQ |
| PS-2 | 10/31/90 | 3' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | --- | SEQ |
| PS-3 | 10/31/90 | 3' | ND<1.0 | --- | ND<0.003 | ND<0.003 | ND<0.003 | ND<0.003 | --- | --- | --- | SEQ |
| PS-4 | 10/31/90 | 3' | 110 | --- | ND<0.003 | 0.10 | 0.43 | 5.6 | --- | --- | --- | SEQ |
| PS-5 | 10/31/90 | 3' | 9700 | --- | 2.9 | 180 | 180 | 1200 | --- | --- | --- | SEQ |
| PS-6 | 10/31/90 | 3' | 2200 | --- | 0.010 | 6.0 | 15 | 80 | --- | --- | --- | SEQ |
| PS-7 | 10/24/91 | 6' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| PS-7 | 10/24/91 | 10' | 11 | --- | 0.041 | 0.015 | 0.47 | 1.5 | --- | --- | --- | SEQ |
| PS-7 | 10/24/91 | 13' | 17 | --- | 0.11 | 0.78 | 0.65 | 2.0 | --- | --- | --- | SEQ |
| PS-8 | 10/24/91 | 8.5' | 4000 | --- | 2.6 | 130 | 100 | 650 | --- | --- | --- | SEQ |
| PS-8 | 10/24/91 | 13' | 630 | --- | 2.3 | 40 | 16 | 93 | --- | --- | --- | SEQ |
| PS-9 | 10/24/91 | 11' | 16 | --- | 0.12 | 0.004 | 0.51 | 1.2 | --- | --- | --- | SEQ |
| PS-9 | 10/24/91 | 14.5' | 310 | --- | 0.68 | 15 | 9.6 | 50 | --- | --- | --- | SEQ |
| PS-10 | 10/24/91 | 3' | 4.3 | --- | 0.0084 | 0.064 | ND<0.005 | 0.38 | --- | --- | --- | SEQ |
| PS-10 | 10/24/91 | 7' | 60 | --- | 0.29 | ND<0.025 | 0.82 | 6.7 | --- | --- | --- | SEQ |
| PS-10 | 10/24/91 | 16' | 670 | --- | 1.9 | 39 | 16 | 100 | --- | --- | --- | SEQ |

fuel UST
U.S. UST

disposal area

franch sample

TABLE 2
Summary of Results of Soil Sampling
Former Mobil Station 04-H6J
1024 Main Street, Pleasanton, California
Project No. 30-0065

Concentrations in Parts Per Million (ppm)

| SAMPLE ID | DATE OF SAMPLING | SAMPLE DEPTH | TPH-G | TPH-D | B | T | E | X | TOG | HVOCs | ORGANIC LEAD | LAB |
|-----------|------------------|--------------|--------|-------|-----------|-----------|-----------|-----------|-----|-------|--------------|-----|
| PS-11 | 10/24/91 | 2' | ND<2.5 | --- | ND<0.013 | 0.16 | ND<0.013 | 0.05 | --- | --- | --- | SEQ |
| PS-11 | 10/24/91 | 14' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| PS-12 | 10/25/91 | 5' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| PS-12 | 10/25/91 | 13.5' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| PS-12 | 10/25/91 | 15' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| PS-14 | 10/25/91 | 5' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| PS-14 | 10/25/91 | 10' | 3.3 | --- | 0.029 | 0.016 | 0.027 | 0.073 | --- | --- | --- | SEQ |
| PS-14 | 10/25/91 | 14' | 1.1 | --- | ND<0.0050 | ND<0.0050 | 0.006 | 0.016 | --- | --- | --- | SEQ |
| PS-16 | 10/25/91 | 8' | 1500 | --- | ND<0.25 | 36 | 59 | 310 | --- | --- | --- | SEQ |
| PS-16 | 10/25/91 | 12.5' | 2900 | --- | 10 | 360 | 120 | 590 | --- | --- | --- | SEQ |
| PS-17 | 10/25/91 | 5' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| PS-17 | 10/25/91 | 10' | 1.3 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| PS-17 | 10/25/91 | 14' | 2.5 | --- | ND<0.0050 | ND<0.0050 | 0.024 | 0.027 | --- | --- | --- | SEQ |
| PS-18 | 10/25/91 | 2' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| PS-18 | 10/25/91 | 5' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| PS-18 | 10/25/91 | 7' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |
| PS-18 | 10/26/91 | 10' | 22 | --- | 0.011 | 0.062 | 0.097 | 0.74 | --- | --- | --- | SEQ |
| PS-18 | 10/25/91 | 14' | ND<1.0 | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | --- | --- | --- | SEQ |

EXPLANATION OF 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 & grease
 HVOC'S :halogenated volatile organic compounds

PS :soil samples collected beneath former pump islands
 T# :soil samples collected from tank excavations
 SB :soil samples collected from soil borings
 --- :not analyzed/not measured
 ND :not detected at or above reported detection limit
 * :detection limits vary dependent upon compound
 a :1,2-dichloroethane
 SAL :Superior Analytical Laboratory
 SEQ :Sequoia Analytical Laboratory

Note: 1. Samples SB-14 at 6.0-6.5 and 39.5-40 fbg, and SB-15 at 37.0-37.5 fbg were additionally analyzed for inorganic metals (see laboratory report).
 2. Samples SB-14 at 39.5-40.0 fbg and SB-15 at 37.0-37.5 fbg were additionally detected concentrations of organic carbon at 140 and 330 ppm.

APPENDIX A

**PROJECT BACKGROUND AND
SENSITIVE RECEPTORS SURVEY**

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 gasoline storage tanks and an underground waste oil tank. Approximately 260 yards of hydrocarbon-affected soil were excavated, sampled, aerated onsite, and subsequently removed for disposal. Analysis of soil samples collected from the excavations revealed the presence of hydrocarbon-affected soil.

March to April 1990: Alton Geoscience conducted a Phase I Site Investigation, consisting of drilling of eight exploratory soil borings, three of which were subsequently converted to Monitoring Wells MW-1, MW-2, and MW-3. A report of findings was submitted to Mobil Oil Corporation and the appropriate regulatory agencies in June 1990.

October to December 1990: Alton Geoscience conducted a Phase II Site Investigation consisting of drilling five additional exploratory soil borings. A report of findings was submitted to Mobil Oil Corporation and the appropriate regulatory agencies in January 1990.

October 1990: Alton Geoscience conducted a Phase III Site Investigation consisting of drilling five additional exploratory soil borings. These soil borings were subsequently converted to Monitoring Wells MW-4, MW-5, MW-6, MW-7, and MW-8. A report of findings was submitted to Mobil Oil Corporation and the appropriate regulatory agencies in January 1990.

August 14 to 16, 1991: Alton Geoscience contracted Earth Technology Corporation to conduct a geophysical survey of the site using a cone penetrometer (CPT). Ground water samples were collected where possible. A total of nine CPT soundings were conducted.

October 24 to 24, 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 takes continuous ground water level measurements from several wells using a data logger. From data collected it was noted there were significant changes in ground water elevations over a short period of time. Alton Geoscience researched possible reasons for these fluctuations.

December 19, 1991: Alton Geoscience conducted an aquifer pumping test in an effort to characterize the aquifer beneath the site. Data collected during the pumping test indicated that further characterization of the aquifer was necessary.

January 6, 1992: Alton Geoscience prepared a letter report summarizing the activities performed between August 1991 and January 1992. Findings from these investigative activities were also presented. The report was sent via fax to Mobil Oil Corporation on January 6, 1991.

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

January 10, 1992: Alton Geoscience submitted a proposal to Mobil Oil Corporation requesting permission to perform out-of-scope work consisting of drilling 2 exploratory soil borings inside the existing station building. Alton Geoscience also proposed converting one boring into a 4-inch-diameter monitoring well.

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

March 2, 1992: A constant rate pumping test (Pumping Test A) was performed on MW-1. On March 3, 1992 (Pumping Test B) was performed on MW-2.

**SENSITIVE RECEPTORS SURVEY
SITE SURVEY AND LITERATURE SEARCH**

Client: Mobil Oil Corporation Project No.: 30-065

Station No.: 10-H6J

Location: 1024 Main Street

City/State: Pleasanton, California

I. Provide answers to the following questions:

- | | | |
|-----------------------------------------------------------|-----|-------------------------------|
| A. Is there a public water supply well within 2500 feet? | Y/N | <u>Y</u> |
| If Yes, Distance | | <u> </u> ft. |
| B. Is there a private water supply well within 1000 feet? | Y/N | <u>Y</u> |
| If Yes, Distance | | <u> </u> ft. |
| C. Is there a subway within 1000 feet? | Y/N | <u>N</u> |
| If Yes, Distance | | <u> </u> ft. |
| D. Is there a basement within 1000 feet? | Y/N | <u>Y</u> |
| If Yes, Distance | | <u>500</u> ft. |
| E. Is there a school within 1000 feet? | Y/N | <u>Y</u> |
| If Yes, Distance | | <u>1000</u> ft. |
| F. Is there a surface body of water within 1000 feet? | Y/N | <u>Y</u> |
| If Yes, Distance | | <u>500</u> ft. |
| Name | | <u>Arroyo del Valle Canal</u> |

II. Describe type of local water supply.

Public: City of Pleasanton (local) & Zone 7 (Regional)

- Suppliers Name: Zone 7 + CoF P
- Suppliers Source: See Below - Zone 7 Blend
- Distance to Site: 1/2 mile to 3 miles

Private: _____

Zone 7 Blend
So. Bay Aqueduct
DSRSD (Dublin, San Ramon Services District)
CoF P (City of Pleasanton)
CoF L (City of Livermore)
CWR WATER

**SENSITIVE RECEPTORS SURVEY
SITE SURVEY AND LITERATURE SEARCH**

III. Distance to Nearest Adjacent Properties:

| | |
|--------------------------------------|-----------------------|
| Residential | 50 ft. |
| Commercial | 60 ft. |
| Industrial | 10,000 ft. |
| Hospital | 3 mi miles |
| School (<u>Amador High School</u>) | 1,000 ft. |
| Name | |

IV. Aquifer Classification, if available.

| | | |
|-----------------|------------------------------------------------|-------|
| Class I | - Special Ground Waters | _____ |
| | - Irreplaceable Drinking Water Source | _____ |
| <u>Class II</u> | - Ecologically Vital | _____ |
| | - Current and Potential Drinking Water Sources | _____ |
| Class III | - Not Potential Source of Drinking Water | _____ |

within 1/2 mile radius.

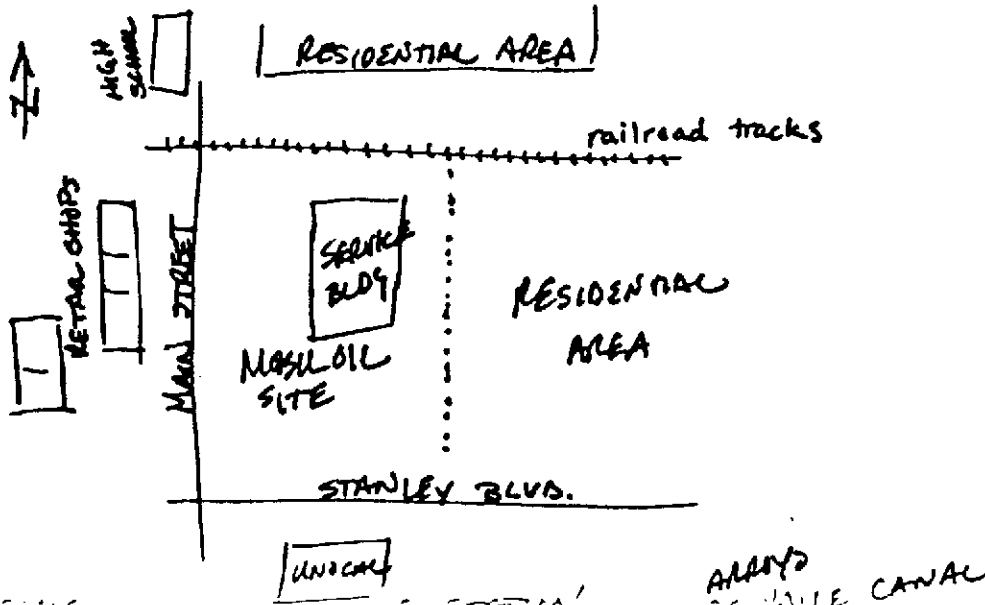
V. Describe observation wells, if any.

Number Free Product? ~25
 Y/N N
 WITHIN 500' OF SITE As of 11/91
7 gw wells, none, 1 offsite @ Mobil, 3 valum well @ Unocal, 2 gw mon. wells, City of Ptou

VI. Signature of Preparer: Cheri D. [Signature]

Date: 10/02/90

VII. Sketch of Site



TO LIVERMORE SHADOW CLIFFS REC.

APPENDIX B
GEOPHYSICAL METHODS
AND
CONE PENETROMETER DATA LOGS

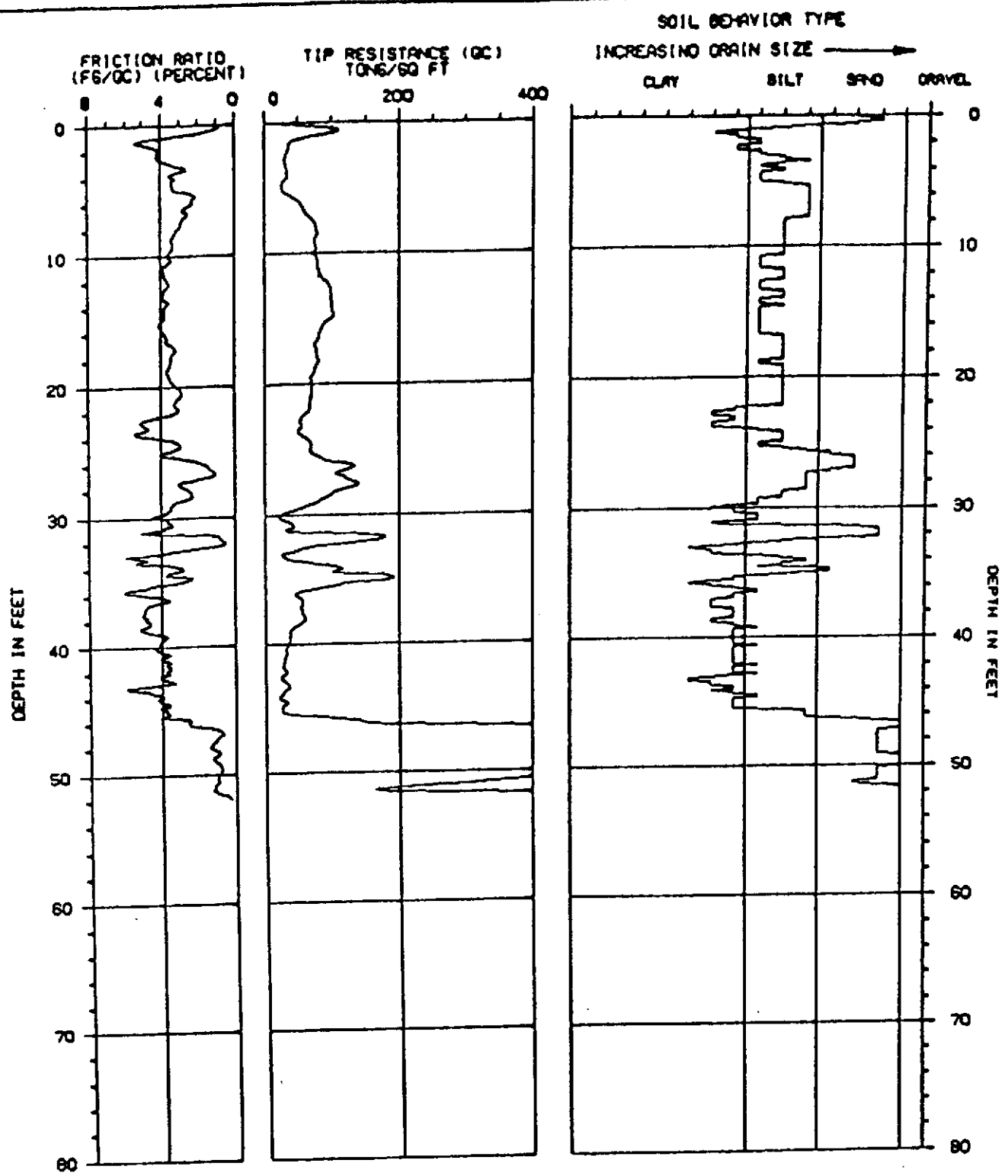
GEOPHYSICAL METHODS AND AND CONE PENETROMETER DATA LOGS

The geophysical method used for part of this investigation is known as a cone penetrometer test (CPT). The CPT consists of an instrumented probe which is driven into the sediments using a truck-mounted, hydraulic ram system. The instrumented probe continuously measures tip and frictional resistance, and probe inclination. These data are fed directly into an on-board computerized data system (DAS). Based on analysis of these data by the DAS, a continuous profile of subsurface stratigraphy is generated.

An optional probe can also measure pore pressure at selected depths. This probe is known as a peizocone. Pore pressure dissipation tests were performed at the site.


The CPT can also conduct ground water sampling without installation of a monitoring well. A specialized probe known as a Hydropunch is used. This tool is driven to the desired depth by hydraulic rams. Then the probe is retracted approximately 1 foot, causing the sampling port to open. Hydrostatic pressure forces ground water into the Hydropunch. At the surface, the sample is removed from the sample chamber and transferred to appropriate sample containers using a section of teflon tubing and stopcock which attaches to the Hydropunch's sample container.

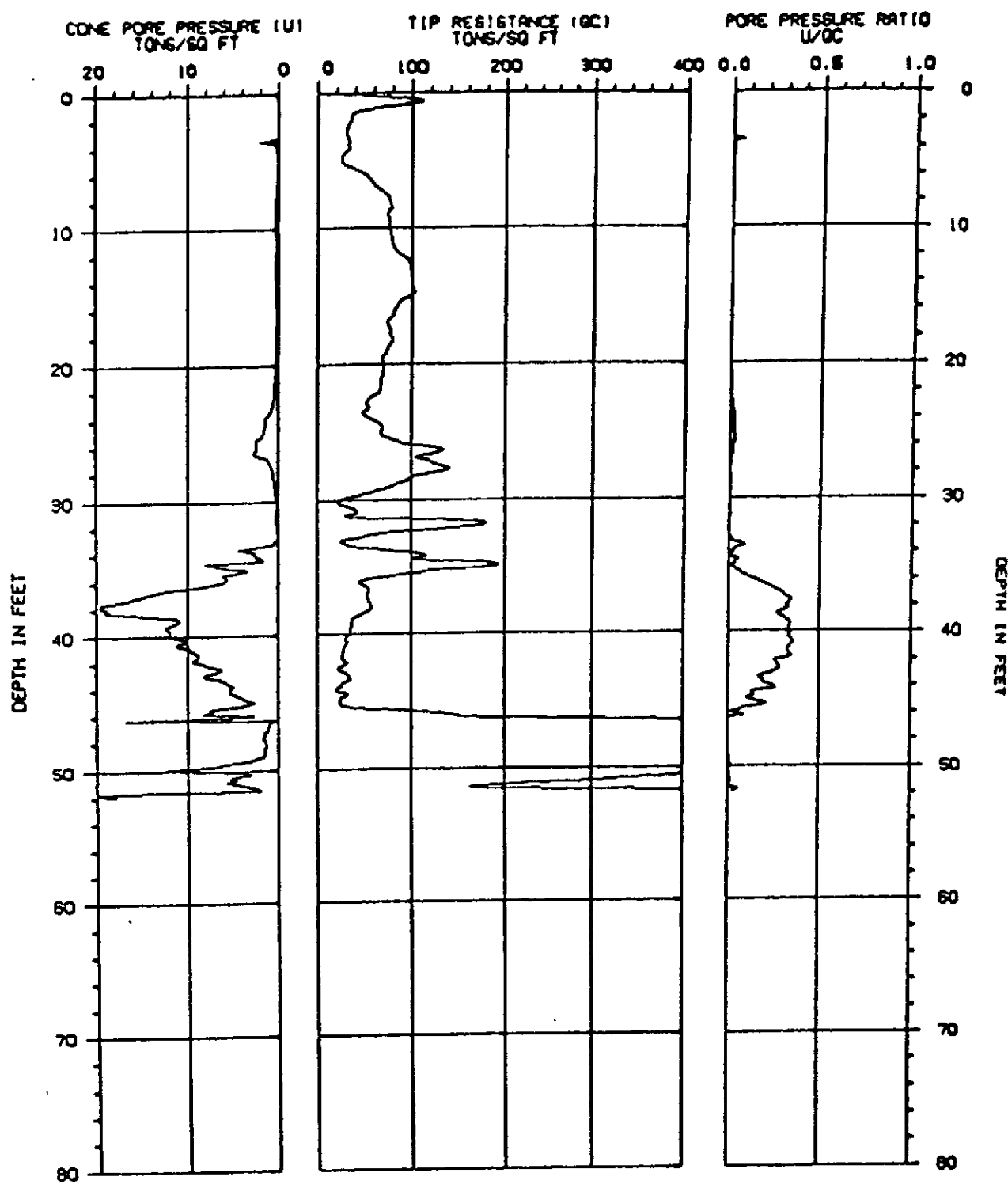
This method of investigation does not result in the generation of soil cuttings. In addition, the steel rods used to advance the probe are decontaminated by an automatic steam cleaner as they are removed from the hole. After conducting the CPT sounding, the hole is backfilled from the bottom to the surface with bentonite slurry.



ASSUMED TOTAL UNIT WT = 110 PCF

ASSUMED DEPTH OF WATER TABLE = 15.0 FT

| | | | |
|-----------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: PCPT-1 | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA |  THE EARTH TECHNOLOGY CORPORATION | |
| PROJECT NUMBER : 9111-12203 | DATE : 08-15-1991 | | |



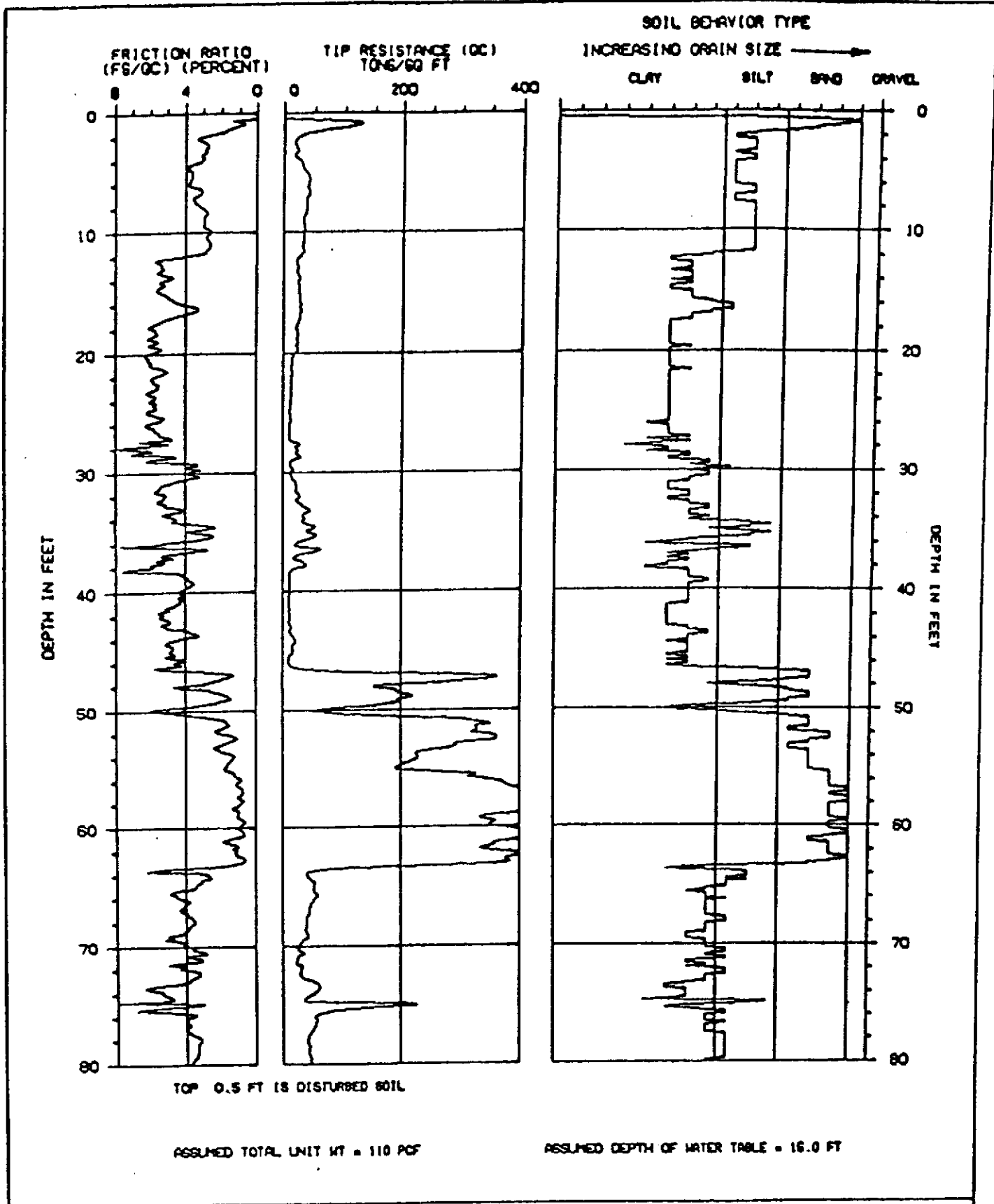
CONE PENETRATION TEST

SOUNDING NUMBER: PCPT-1

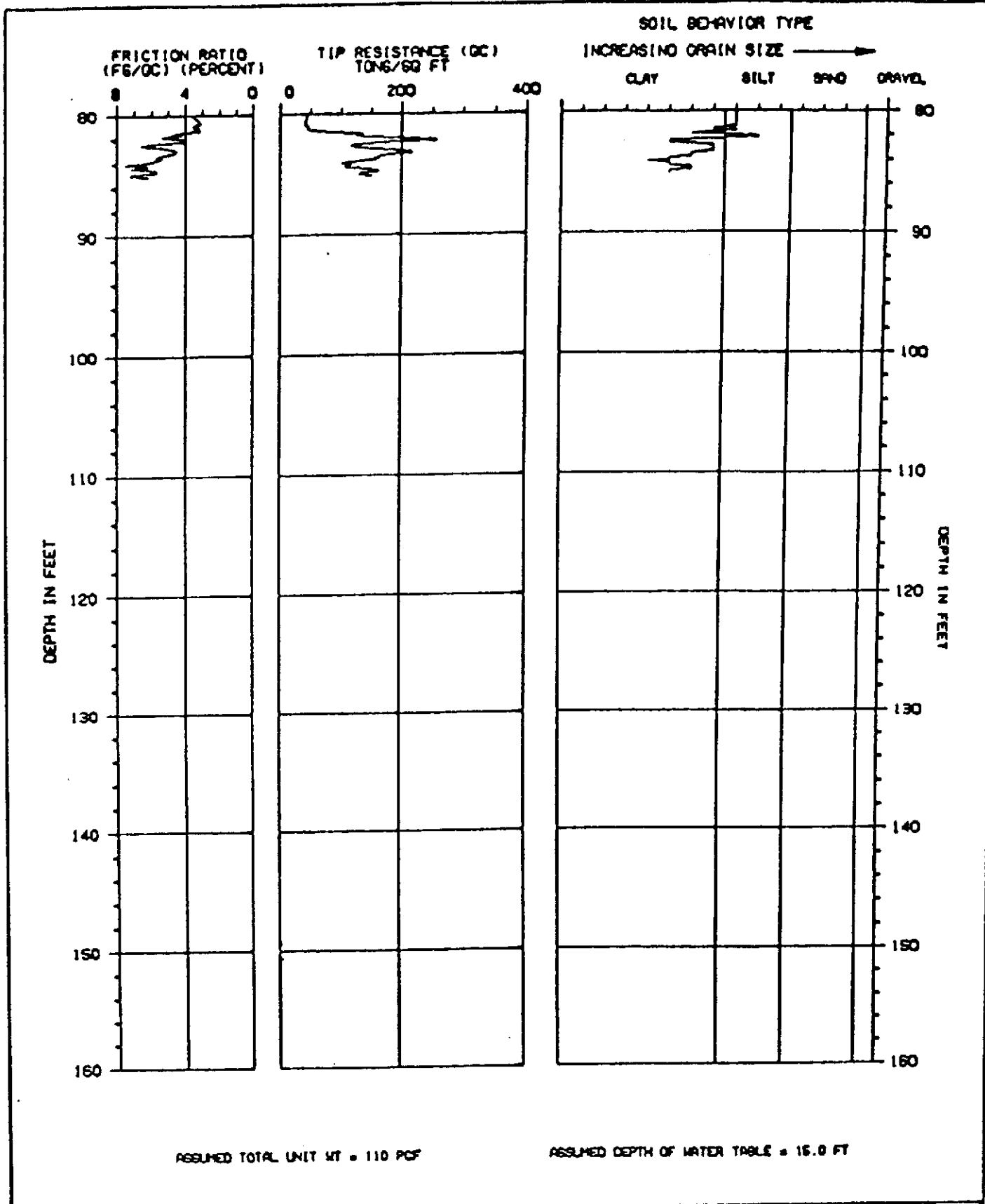
PROJECT NAME : ALTON/MOBIL
 PROJECT NUMBER : 9111-12203


LOCATION : PLEASANTON CA
 DATE : 08-15-1991

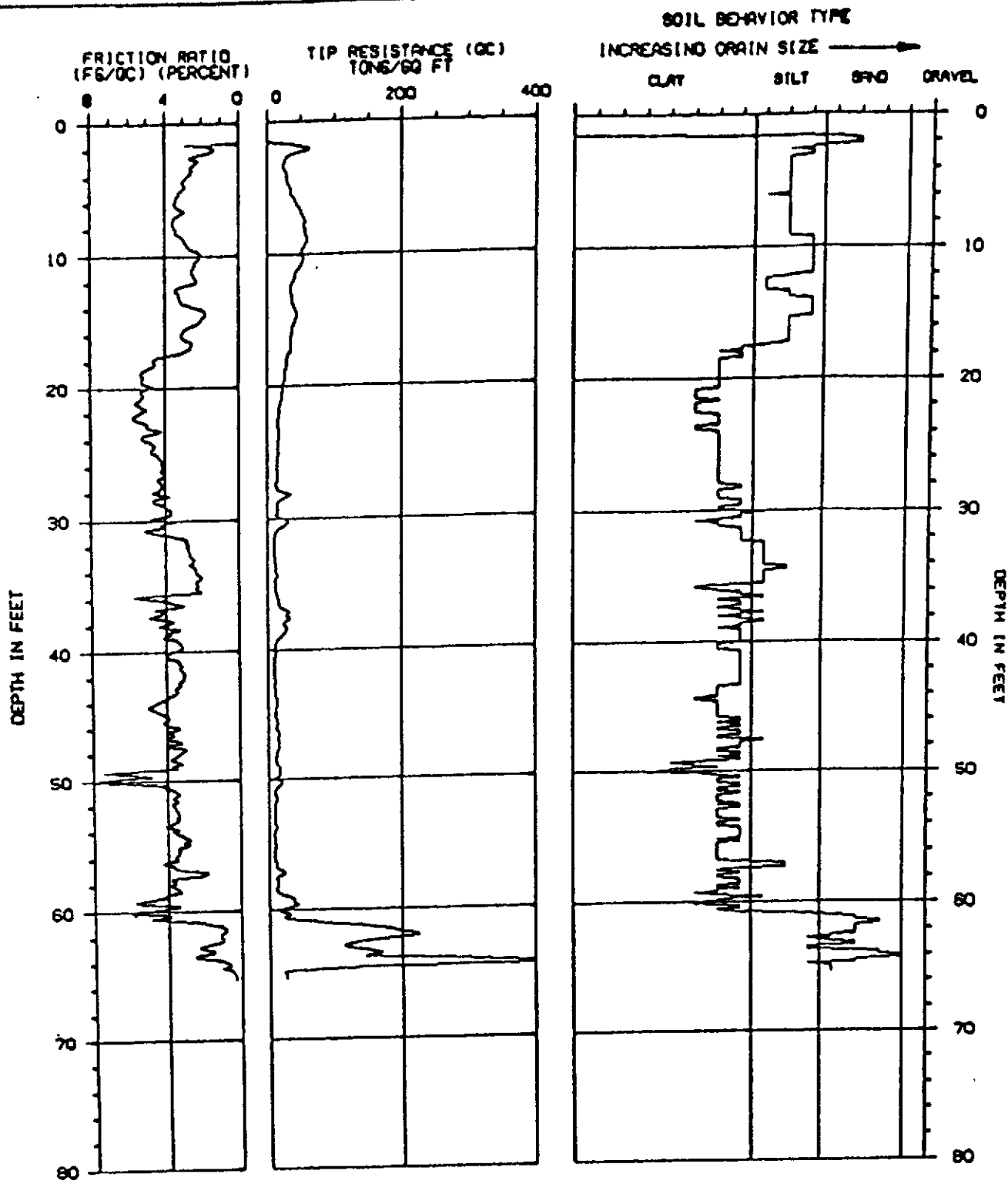




| | | | |
|-----------------------------|--------------------------|----------------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: CPT-2 (1 OF 2) | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA | THE EARTH TECHNOLOGY CORPORATION | |
| PROJECT NUMBER : 9111-12203 | DATE : 08-15-1991 | | |




| | | | |
|------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: CPT-2 (2 OF 2) | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA |  THE EARTH TECHNOLOGY CORPORATION | |
| PROJECT NUMBER : 9111-12203 | DATE : 08-15-1991 | | |

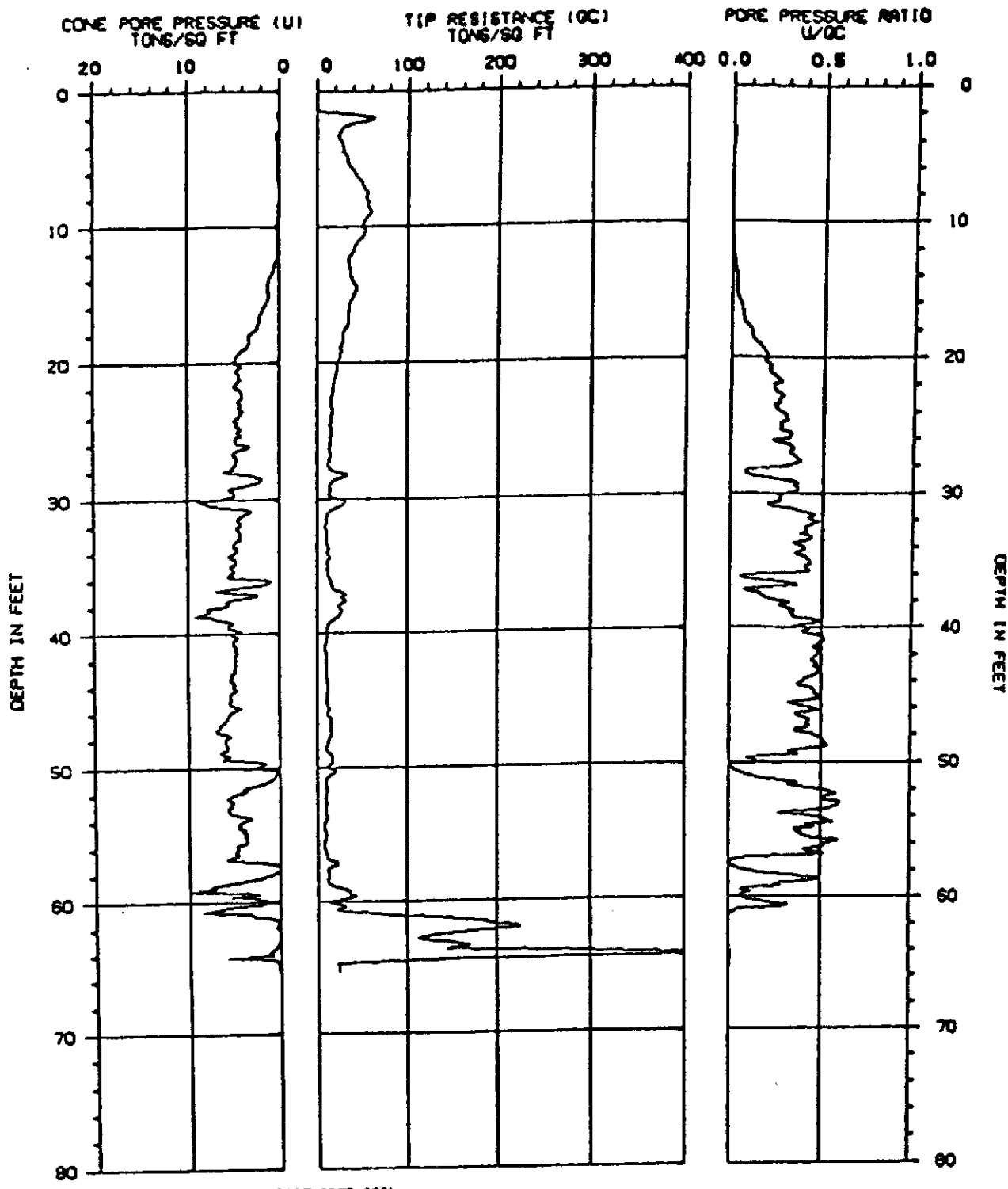


TOP 1.5 FT IS DISTURBED SOIL


ASSUMED TOTAL UNIT WT = 110 PCF

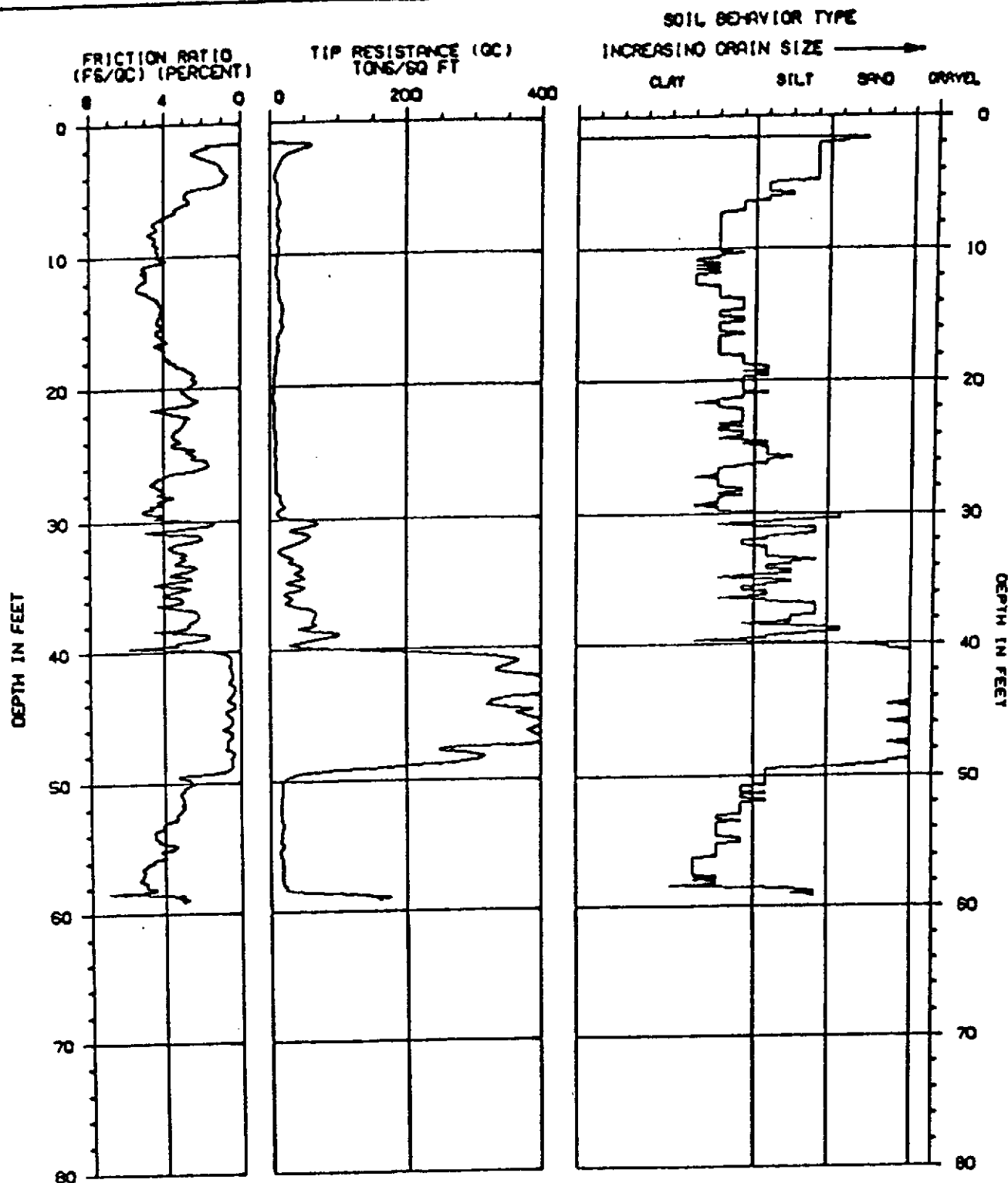
ASSUMED DEPTH OF WATER TABLE = 16.0 FT

| | | | |
|-----------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: PCPT-3 | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA |  THE EARTH TECHNOLOGY CORPORATION | |
| PROJECT NUMBER : 9111-12203 | DATE : 08-15-1991 | | |



TOP 1.5 FT IS DISTURBED SOIL


| | | | |
|-----------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: PCPT-3 | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA |  THE EARTH TECHNOLOGY CORPORATION | |
| PROJECT NUMBER : 9111-12203 | DATE : 08-15-1991 | | |

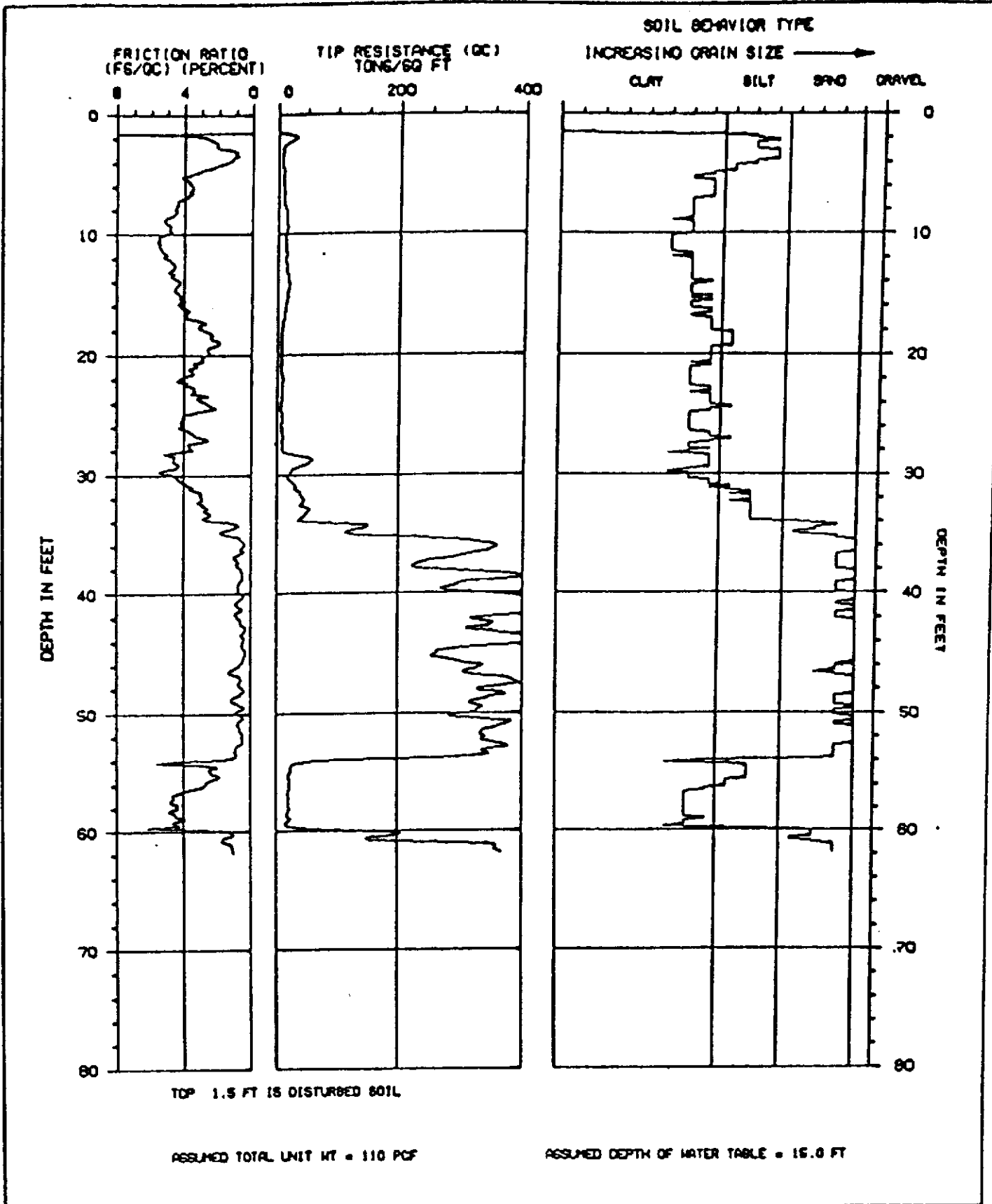


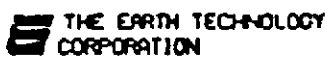
TOP 1.5 FT IS DISTURBED SOIL

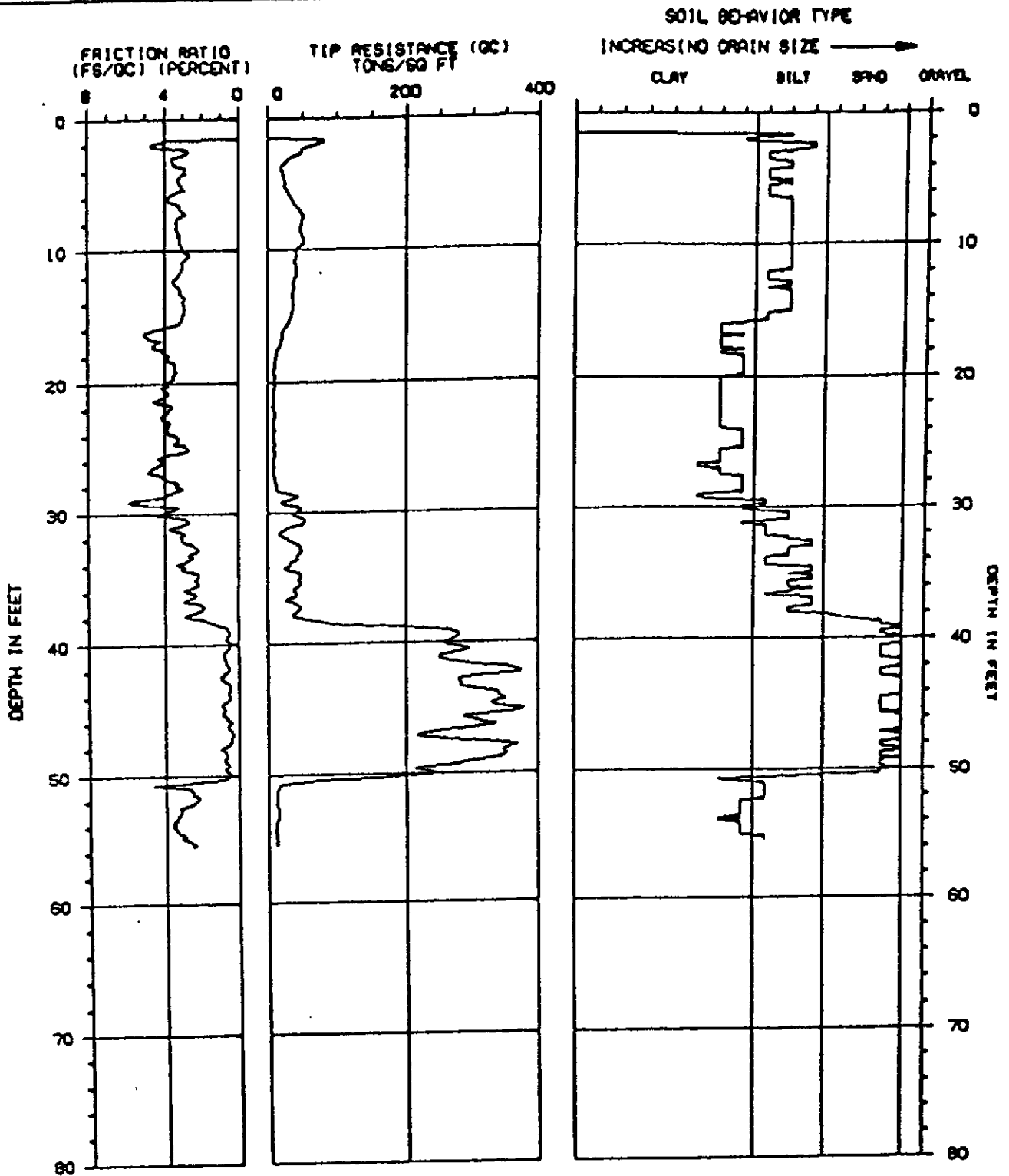
ASSUMED TOTAL UNIT WT = 110 PCF

ASSUMED DEPTH OF WATER TABLE = 15.0 FT

| | | | |
|-----------------------------|--------------------------|---------------------------------------------------------------------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: CPT-4 | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA |  | |
| PROJECT NUMBER : 9111-12203 | DATE : 08-16-1991 | | |



| | | | |
|------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: CPT-6 | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA |  THE EARTH TECHNOLOGY CORPORATION | |
| PROJECT NUMBER : 9111-12203 | DATE : 08-14-1991 | | |

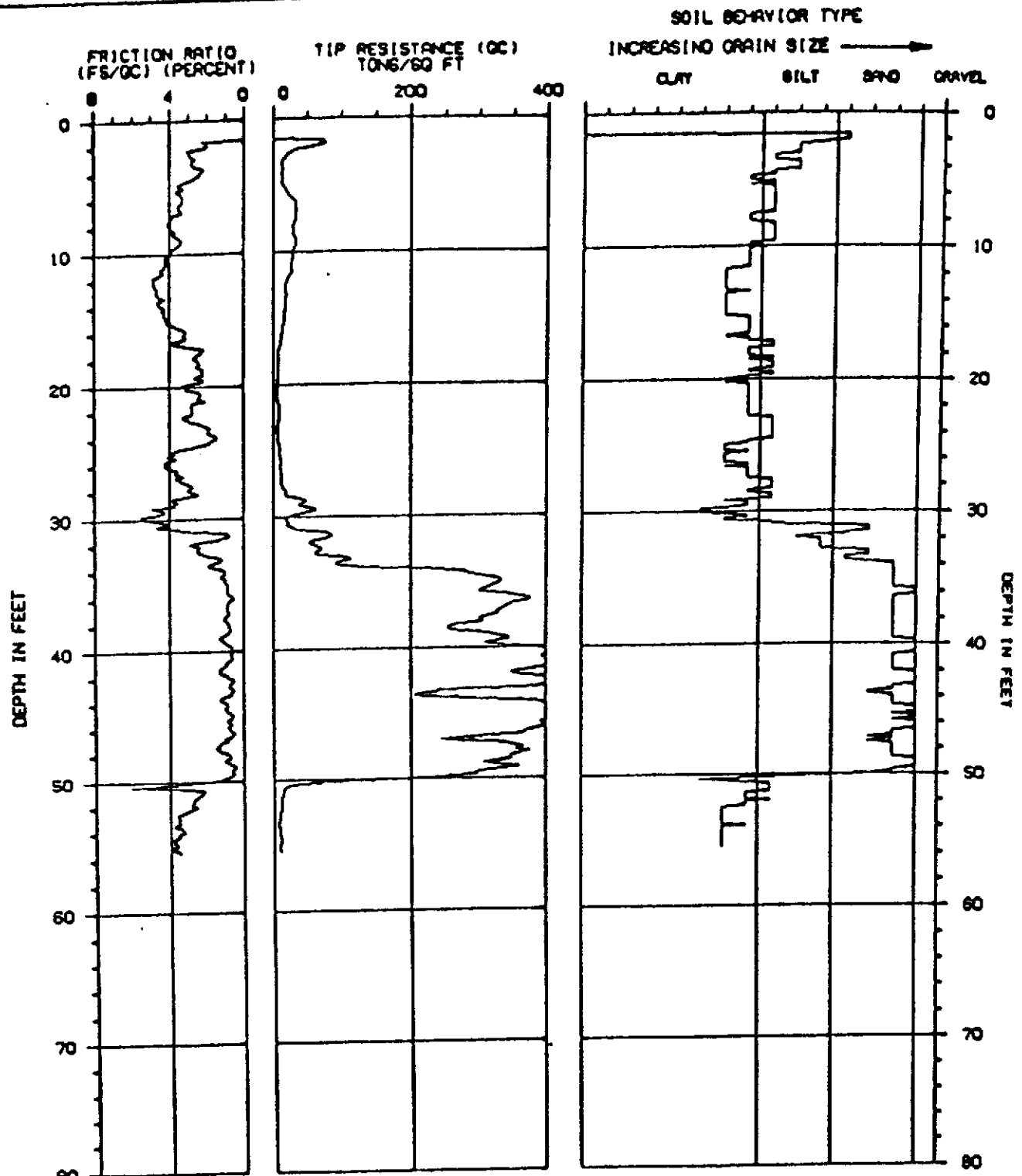


TOP 1.5 FT IS DISTURBED SOIL

ASSUMED TOTAL UNIT WT = 110 PCF

ASSUMED DEPTH OF WATER TABLE = 16.0 FT


| | | | |
|-----------------------------|--------------------------|------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: CPT-7 | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA | | |
| PROJECT NUMBER : 9111-12203 | DATE : 08-14-1991 | | |

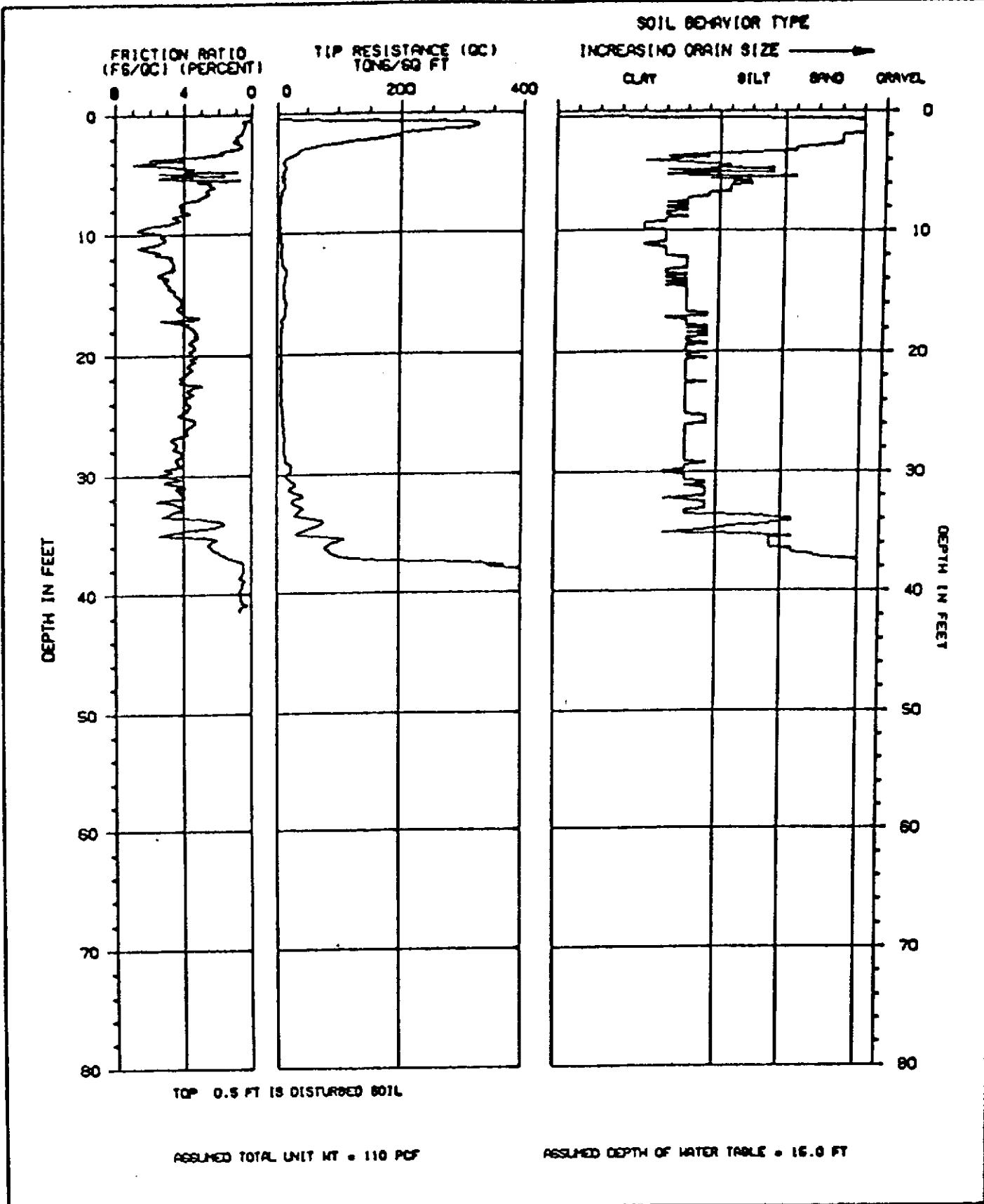



TOP 1.5 FT IS DISTURBED SOIL

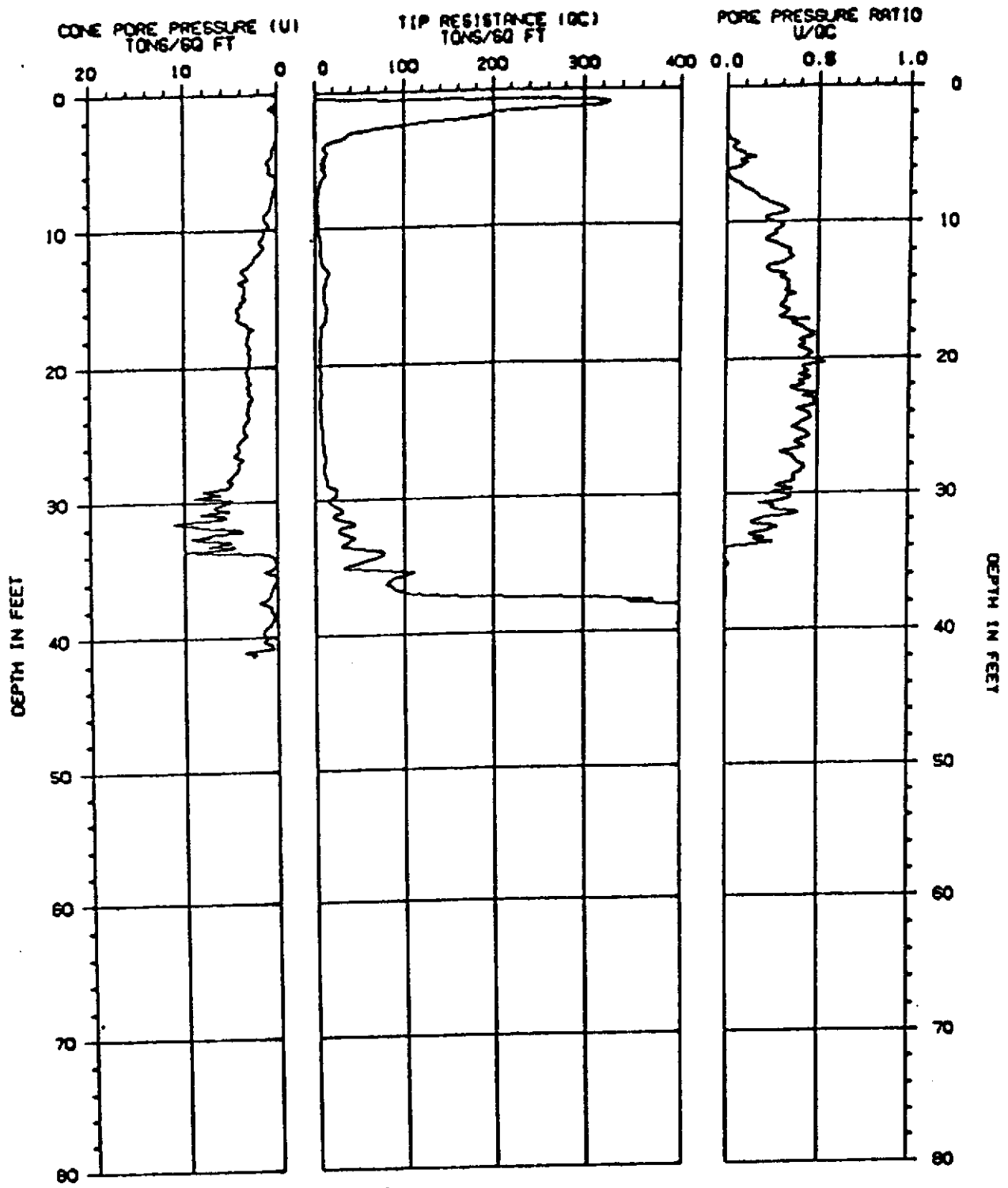
ASSUMED TOTAL UNIT WT = 110 PCF

ASSUMED DEPTH OF WATER TABLE = 15.0 FT


| | | | |
|-----------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: CPT-8 | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA |  THE EARTH TECHNOLOGY CORPORATION | |
| PROJECT NUMBER : 911F-12203 | DATE : 08-14-1991 | | |

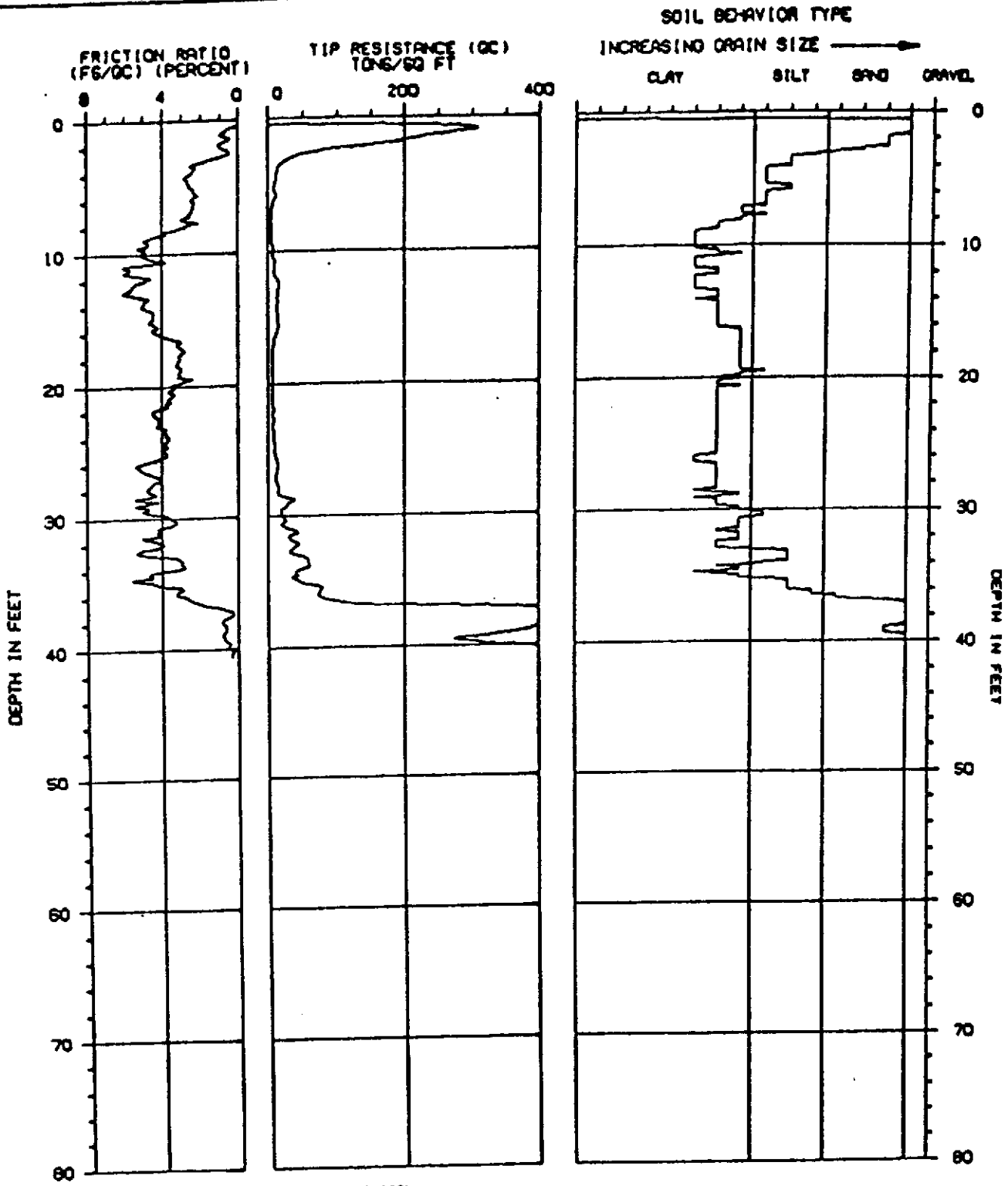


| | | | |
|-----------------------------|--------------------------|---------------------------------------------------------------------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: PCPT-9 | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA |  | |
| PROJECT NUMBER : 9111-12203 | DATE : 08-16-1991 | | |



TOP 0.5 FT IS DISTURBED SOIL


| | | | |
|-----------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: PCPT-9 | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA |  THE EARTH TECHNOLOGY CORPORATION | |
| PROJECT NUMBER : 9111-12203 | DATE : 08-16-1991 | | |

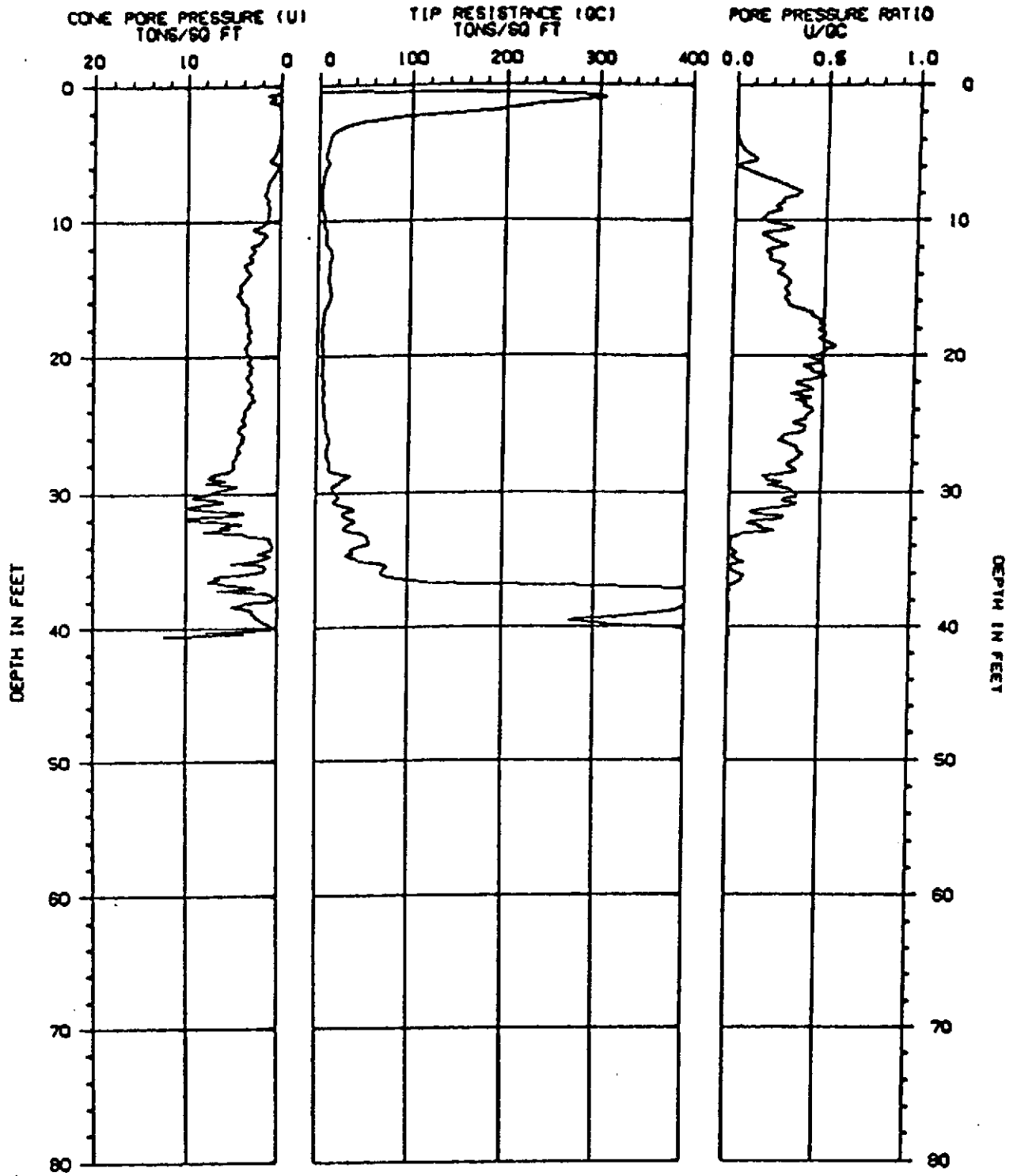


TOP 0.5 FT IS DISTURBED SOIL

ASSUMED TOTAL UNIT WT = 110 PCF

ASSUMED DEPTH OF WATER TABLE = 15.0 FT

| | | | |
|-----------------------------|--------------------------|---------------------------------------------------------------------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: PCPT-9A | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA |  | |
| PROJECT NUMBER : 9111-12203 | DATE : 08-16-1991 | | |



TOP 0.5 FT IS DISTURBED SOIL

CONE PENETRATION TEST

SOUNDING NUMBER: PCPT-9A

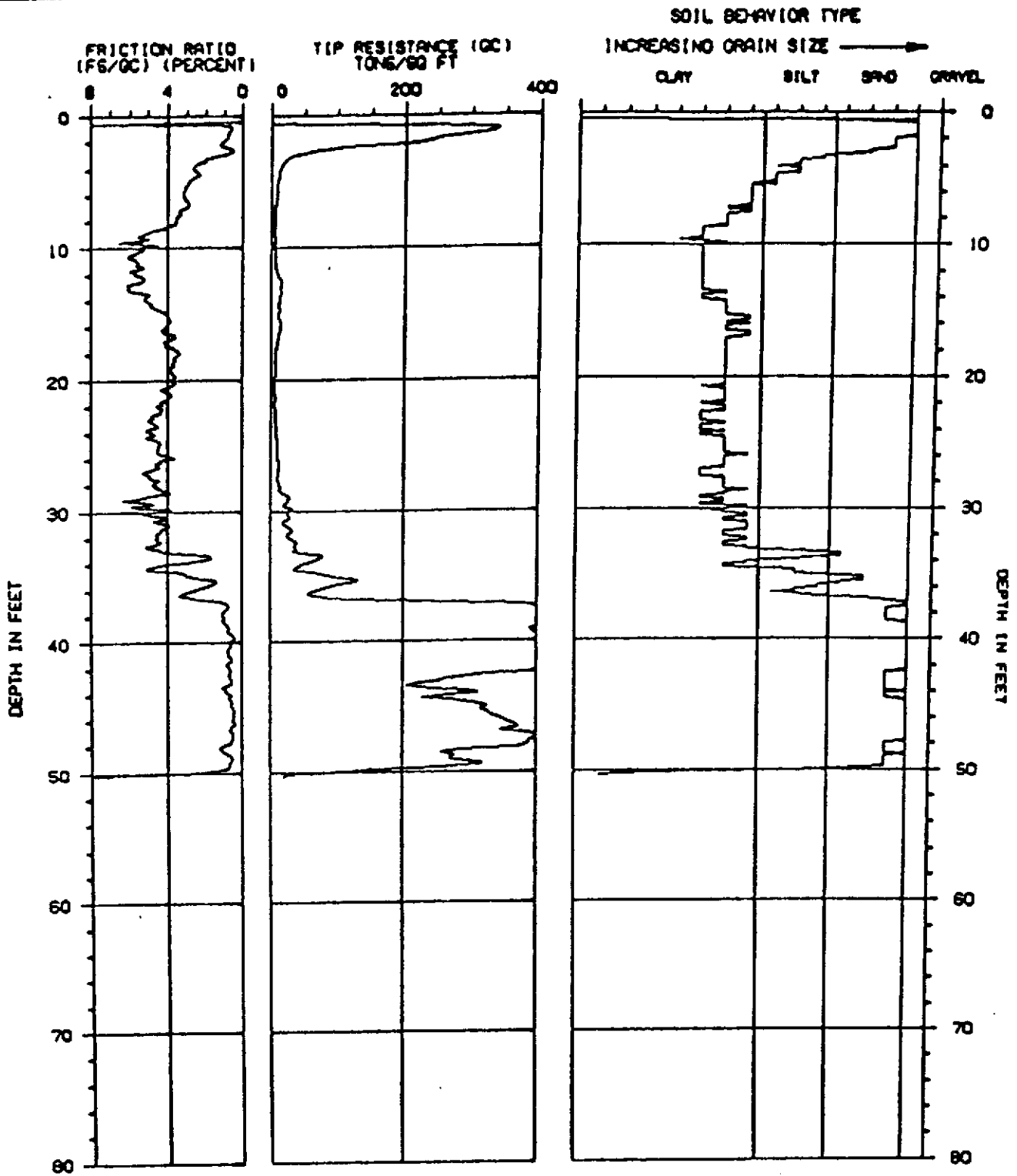
PROJECT NAME : ALTON/MOBIL

LOCATION : PLEASANTON CA

PROJECT NUMBER : 9111-12203

DATE : 08-16-1991


 THE EARTH TECHNOLOGY CORPORATION

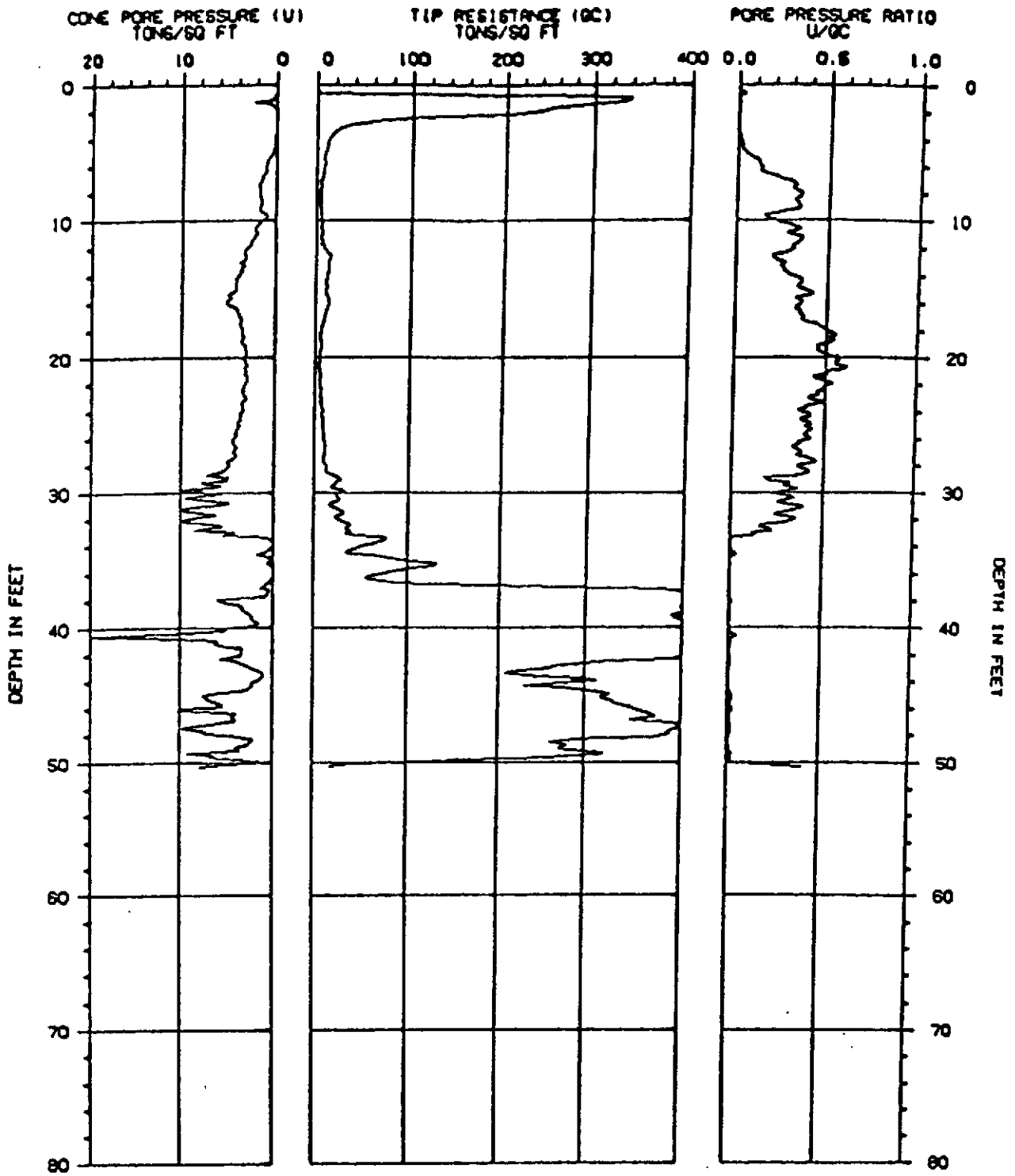


TOP 0.5 FT IS DISTURBED SOIL

ASSUMED TOTAL UNIT WT = 110 PCF

ASSUMED DEPTH OF WATER TABLE = 16.0 FT

| | | | |
|-----------------------------|--------------------------|---------------------------------------------------------------------------------------|--|
| CONE PENETRATION TEST | | SOUNDING NUMBER: PCPT-98 | |
| PROJECT NAME : ALTON/MOBIL | LOCATION : PLEASANTON CA |  | |
| PROJECT NUMBER : 9111-12203 | DATE : 08-16-1991 | | |



TOP 0.5 FT IS DISTURBED SOIL

CONE PENETRATION TEST

SOUNDING NUMBER: PCPT-98

PROJECT NAME : ALTON/MOBIL

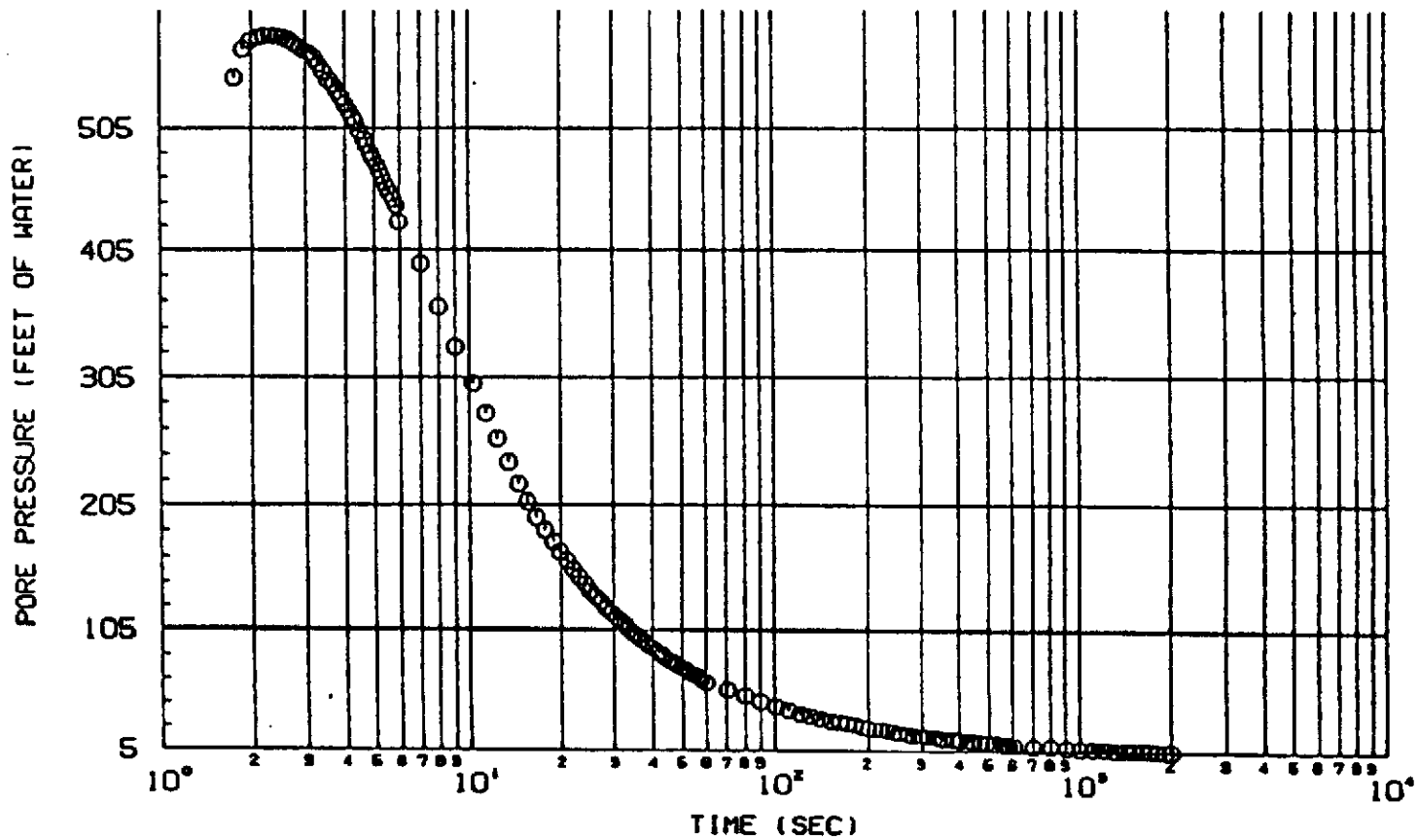
LOCATION : PLEASANTON CA

PROJECT NUMBER : 9111-12203

DATE : 08-16-1991

 THE EARTH TECHNOLOGY CORPORATION

PORE PRESSURE DISSIPATION CURVES



DEPTH: ④ 46.3 FT

TIP-SENSING PIEZOMETRIC CPT

SOUNDING NUMBER: PCPT-1

PROJECT NAME : ALTON/MOBIL

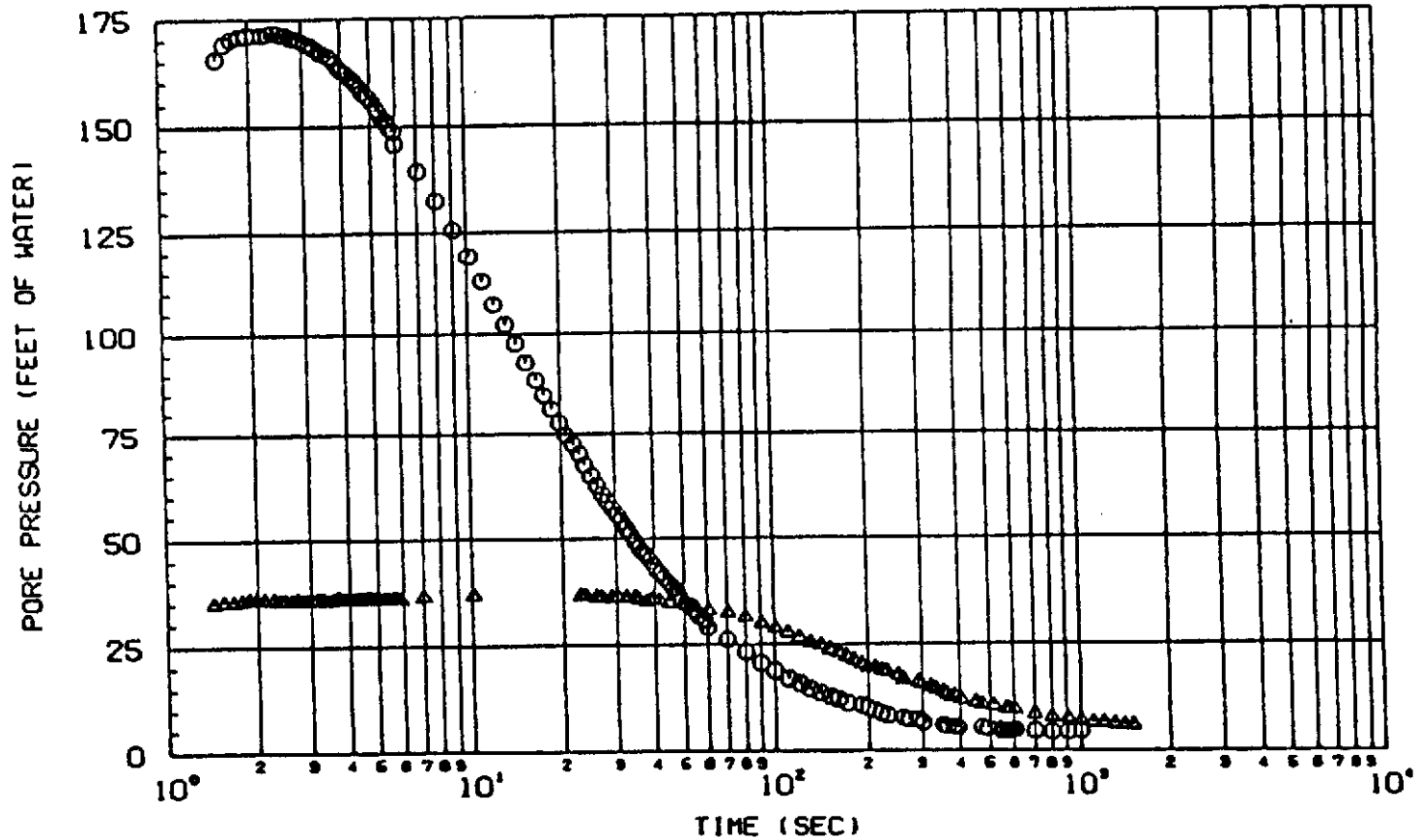
LOCATION : PLEASANTON CA

PROJECT NUMBER : 9111-12203

DATE : 08-16-1991



PORE PRESSURE DISSIPATION CURVES



DEPTH: ○ 50.1 FT △ 64.7 FT

TIP-SENSING PIEZOMETRIC CPT

SOUNDING NUMBER: PCPT-3

PROJECT NAME : ALTON/MOBIL

LOCATION : PLEASANTON CA

PROJECT NUMBER : 9111-12203

DATE : 08-15-1991

 THE EARTH TECHNOLOGY CORPORATION

APPENDIX C

**ALTON GEOSCIENCE
GENERAL FIELD PROCEDURES FOR
GROUND WATER MONITORING/RECOVERY AND
VAPOR EXTRACTION WELL CONSTRUCTION**

**ALTON GEOSCIENCE
GENERAL FIELD PROCEDURES FOR
GROUND WATER MONITORING/RECOVERY AND
VAPOR EXTRACTION WELL CONSTRUCTION**

Ground water monitoring wells were constructed of clean 2- or 4-inch-diameter, flush-threaded, Schedule 40 PVC blank casing extending from grade level to a depth estimated above the highest anticipated water level, and 2- or 4-inch-diameter screened casing with 0.010-inch perforations extending to a depth of approximately 10 feet into the water table. The casings, fittings, screens, and other components of the well construction were clean before installation.

For monitoring well construction, the annular space surrounding the screened portion was backfilled with No. 3 or 2/16 Monterey sand (filter pack) to approximately 1 to 2 feet above the top of the screened section. A bentonite annular seal (approximately 1 foot thick) was placed above the filter pack. The remaining annulus was grouted with neat cement to the surface. Monument well boxes were installed slightly above grade to minimize infiltration of surface waters. Locking, watertight well caps were installed to ensure the integrity of the well.

APPENDIX D

**ALTON GEOSCIENCE
GENERAL FIELD PROCEDURES
FOR
DRILLING AND SOIL SAMPLING**

**ALTON GEOSCIENCE
GENERAL FIELD PROCEDURES
FOR
DRILLING AND SOIL SAMPLING**

Soil borings were drilled using 3-, 8-, or 11-inch-diameter continuous-flight solid- and hollow-stem augers. To avoid cross-contamination, the augers were steam cleaned prior to drilling each boring.

Samples will be collected for soil description, field hydrocarbon vapor testing, and laboratory analysis. Samples were collected at approximately 3- or 5-foot intervals from the borings drilled for this investigation.

Soil samples were retrieved ahead of the lead auger using a split-spoon or continuous sampler lined with brass or stainless steel inserts. The sampler and sample tubes were washed with an Alconox solution and rinsed before each sampling event. Upon retrieval from the sampler, the bottom sample tube was removed and securely sealed with teflon sheeting and polyurethane caps. The sample was labeled with sample identification, sample depth, geologist's initials, and date of collection. Soil samples were kept on ice prior to and during transport to a California-certified laboratory.

The remaining soil recovered was described in accordance with the Unified Soil Classification System. For each soil type, field estimates of density, moisture, color, grading, and soil type were recorded.

After the soil borings have been drilled, they were backfilled using neat cement, or converted to a monitoring well.

APPENDIX E
PERMITS AND BORING LOGS

LEGEND TO BORING LOG
FORMER MOBIL STATION 04-H6J
1024 MAIN STREET
PLEASANTON, CALIFORNIA
January 30-31, 1992

PROJECT NO. 30-0065

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)

| | | | | |
|-----------------------------|------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| COARSE GRAINED SOILS | GRAVELS more than 1/2 of coarse fraction > No. 4 Sieve | Little or no fines | | GW Well-graded gravels, gravel-sand mixtures, little or no fines |
| | | Little or no fines | | GP Poorly-graded gravels, gravel-sand mixtures |
| | | Appreciable fines | | GM Silty gravels, gravel-sand-silt mixtures |
| | | Appreciable fines | | GC Clayey gravels, gravel-sand-clay mixtures |
| | SANDS more than 1/2 of coarse fraction < No. 4 Sieve | Little or no fines | | SW Well-graded sands, gravelly sands, little or no fines |
| | | Little or no fines | | SP Poorly-graded sands, gravelly sands, little or no fines |
| | | Appreciable fines | | SM Silty sands, sand-silt mixtures |
| | | Appreciable fines | | SC Clayey sands, sand-clay mixtures |
| FINE GRAINED SOILS | SILTS AND CLAYS Liquid limit < 50 | | ML Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity | |
| | | | CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays | |
| | | | OL Organic silts and organic silty clays of low plasticity | |
| | SILTS AND CLAYS Liquid limit > 50 | | MH Inorganic silts, micaceous or diatomaceous fine sand or silty soils | |
| | | | CH Inorganic clays of high plasticity, fat clays | |
| | | | OH Organic clays of medium to high plasticity, organic silts | |
| HIGHLY ORGANIC SOILS | | | PE Peat, humus, swamp soils with high organic contents | |

SYMBOL LEGEND:

- Portland Cement
- #3 Monterey Sand
- Bentonite Pellets
- Sampling Interval

- No recovery
- Sample saved for possible analysis
- Stabilized water level
- Ground water level encountered during drilling

ppm = parts per million

CGI = Combustible gas indicator

**ALTON
 GEOSCIENCE**
 Pleasanton, California

**ALTON GEOSCIENCE
LOG OF EXPLORATORY
BORING**



PROJECT NO. 30-0065-06 DATE DRILLED 1/30/92
 CLIENT Former Mobil Station 04-H&J
 LOCATION 1024 Main Street, Pleasanton, CA
 LOGGED BY C. Reinheimer APPROVED BY _____

WELL NO.
SB-15
Page 1 of 2

FIELD SKETCH OF BORING LOCATION

SEE FIGURE 2

DRILLING METHOD Continuous Flight Auger HOLE DIAM. 4"
 SAMPLER TYPE California Modified Split-Spoon
 CASING DATA NA
 DRILLER Clear Heart Construction

| BLOWS PER 1/2 FOOT (in.) | CGI (ppm) | TPH-G (ppm) | SAMPLE | DEPTH (ft.) | Well Construction | USCS | PROFILE | DEPTH TO WATER | 43' | |
|-----------------------------|-----------|-------------|--------|-------------|----------------------|------|---------|-------------------------------------------------------------------------------------------------------------------------|---------|--|
| | | | | | | | | DATE | 1/30/92 | |
| | | | | | | | | TIME | 4:00 PM | |
| | | | | | | | | DESCRIPTION | | |
| | | | | 0 | | | | CONCRETE ~4-5" thick. | | |
| | | | | 2 | | | | SUB-BASE: coarse angular gravel (1-2" diameter) in sand matrix. | | |
| | | | | 4 | | | | ASPHALT: ~3" thick. | | |
| | | | | 6 | | | | SUB-BASE: very coarse angular gravel to cobbles (1-4" diameter) and common asphalt fragments. | | |
| | | | ND | 8 | | ML | | CLAYEY SILT: dark brown, damp; root traces. | | |
| | | | ND | 10 | | ML | | CLAYEY SILT: medium brown, damp, dense; root traces. | | |
| 9,10,11, 14 | 0 | | ND | 12 | | ML | | CLAYEY SILT: dense, trace sand; root traces. | | |
| 13,13, 14 | | | | 14 | | ML | | CLAYEY SILT: dark brown, damp, medium dense; trace sand and clay, common root traces. | | |
| 7,7,8 | 6 | | | 16 | | ML | | CLAYEY SILT: dark brown, damp, medium dense; trace sand. | | |
| 7,10, 11,17 | 25 | | | 18 | | CL | | CLAYEY SILT: medium dense; no sand. | | |
| 6,8,10 | 25 | | ND | 20 | | ML | | CLAYEY SILT: medium dense; <5% subrounded to subangular gravel clasts to 1cm. | | |
| 6,9,11, 11 | 50 | | | 22 | | ML | | SILTY CLAY: dark brown, moist, very stiff; rare root traces. | | |
| 7,10,8, 9 | 75 | | | 24 | | ML | | CLAYEY SILT: dark brown, moist, medium dense. | | |
| 6,8,8 | 75 | | 62 | 26 | | CL | | SILTY SAND: medium tan, moist, medium dense; fine grained sand, rare gravel, common silty clay to clayey silt partings. | | |
| 5,8,8 | 75 | | | 28 | | ML | | SILTY SAND: light yellowish tan, moist, medium dense; medium grained sand, Fe staining. | | |
| 7,7,8,10 | 75 | | | 30 | | ML | | SILT: medium brown, moist, medium dense; <10% clay, Fe staining. | | |
| 7,7,9 | 75 | | | 32 | | SM | | SANDY SILT: medium brown, moist, medium dense; weakly bedded. | | |
| 7,9,9,10 | 125 | | | 34 | | SM | | | | |
| 7,8,9 | >500 | | | 36 | | ML | | | | |
| 8,8,9 | >500 | | 4100 | 38 | | SM | | | | |
| 7,8,8 | >500 | | | | | ML | | | | |
| 6,8,8 | >500 | | 740 | | | SM | | | | |

**ALTON GEOSCIENCE
LOG OF EXPLORATORY
BORING**



PROJECT NO. 90-0085-06 DATE DRILLED 1/30/92
 CLIENT Former Mobil Station 04-H&J
 LOCATION 1024 Main Street, Pleasanton, CA
 LOGGED BY C. Reinheimer APPROVED BY _____

WELL NO.
SB-15
Page 2 of 2

FIELD SKETCH OF BORING LOCATION

SEE FIGURE 2

DRILLING METHOD Continuous Flight Auger HOLE DIAM. 4"
 SAMPLER TYPE California Modified Split-Spoon
 CASING DATA NA
 DRILLER Clear Heart Construction

| BLOWS PER 1/2 FOOT (in.) | CGI (ppm) | TPH-G (ppm) | SAMPLE | DEPTH (ft.) | Well Construction | USCS | PROFILE | DEPTH TO WATER | DATE | TIME | DESCRIPTION |
|--------------------------|-----------|-------------|--------|-------------|-------------------|------|---------|----------------|---------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10, 14, 11 | 250 | | | 38 | | SM | | 43' | 1/30/92 | 4:00 PM | SANDY SILT: medium brown, moist, medium dense; weakly bedded. |
| 8, 11, 9, 10 | 300 | | | 40 | | SW | | | | | SAND: greenish gray, medium dense; well sorted medium grained sand. |
| 5, 9, 8 | 150 | | | 42 | | | | | | | SAND: greenish gray, medium dense; interbedded with thin (~2") clayey silt lenses. |
| 5, 7, 7, 8 | 0 | | | 44 | | GP | | | | | GRAVELLY SAND: greenish gray, medium dense; medium grained gravelly sand; ~15% gravel, interbedded with Fe stained tan clayey silt lenses (~1-2" thick), gravel to ~1.5" diameter. |
| | | | | 46 | | CL | | | | | SILTY CLAY: medium brown to red-brown, stiff; organics and Fe staining. |
| | | | | 48 | | | | | | | |

Borehole terminated at 46 feet below grade.

**ALTON GEOSCIENCE
LOG OF EXPLORATORY
BORING**



PROJECT NO. 30-0065-05 DATE DRILLED 1/31/92
 CLIENT Former Mobil Station 04-H6J
 LOCATION 1024 Main Street, Pleasanton, CA
 LOGGED BY C. Reinheimer APPROVED BY _____

WELL NO.
 MW-9
 (SB-14)

Page 1 of 2

FIELD SKETCH OF BORING LOCATION

SEE FIGURE 2

TOP OF CASING ELEVATION 348.53'

DRILLING METHOD Hollow Stem Auger HOLE DIAM. 12"
 SAMPLER TYPE 2-1/2" Continuous Sampler
 CASING DATA N/A
 DRILLER Clear Heart Construction

| BLOWS PER 1/2 FOOT (in.) | CGI (ppm) | TPH-G (ppm) | SAMPLE | DEPTH (ft.) | Well Construction | USCS | PROFILE | DESCRIPTION |
|-----------------------------|-----------|-------------|--------|-------------|----------------------|------|---------|---------------------------------------------------------------------------------------------------------------|
| | | | | 0 | | | | CONCRETE ~8-10" thick. |
| | | | | 2 | | | | SUB-BASE: coarse angular gravel (1-2" diameter) in sand matrix. |
| | | ND | | 4 | | | | ASPHALT: ~2-3" thick. |
| | | | | 6 | | | | SUB-BASE: very coarse gravel to cobbles (1-4" diameter) and common asphalt fragments. |
| | | ND | | 8 | | ML | | (Drill cuttings) CLAYEY SILT: dark brown, damp; organic matter, rootlets, insufficient recovery to sample. |
| | | | | 10 | | | | |
| | | | | 12 | | CL | | (Drill cuttings) SILTY CLAY: dark brown, damp; insufficient recovery to sample. |
| | | | | 14 | | | | (Drill cuttings) SILTY CLAY: dark brown, damp; insufficient recovery. |
| | | | | 16 | | | | |
| | | | | 18 | | | | SILT: dark brown, damp; <5% clay, <5% rare gravel clasts to 3/4" diameter, organics, rootlets. |
| | | ND | | 20 | | ML | | |
| | | | | 22 | | | | |
| | | | | 24 | | ML | | CLAYEY SILT: dark to medium brown, damp; organic matter, rootlets, Fe staining. |
| | 25 | | | 26 | | | | CLAYEY SILT: ~5% gravel clasts to 1-1/2" diameter. |
| | | | | 28 | | CL | | SILTY CLAY: medium brown, damp; <5% gravel, Fe staining. |
| | | ND | | 30 | | | | SANDY SILT: medium brown, damp; Fe staining. |
| | | | | 32 | | | | |
| | 45 | | | 34 | | SM | | SANDY SILT: olive to greenish gray, damp. |
| | | ND | | 36 | | | | |
| | 25 | | | 38 | | | | SANDY SILT: greenish tan, moist; rare gravel. |
| | 50 | | | | | | | |

**ALTON GEOSCIENCE
LOG OF EXPLORATORY
BORING**



PROJECT NO. 30-0065-05 DATE DRILLED 1/31/92
 CLIENT Former Mobil Station 04-H6J
 LOCATION 1024 Main Street, Pleasanton, CA
 LOGGED BY C. Reinheimer APPROVED BY _____

WELL NO.
MW-9
(SB-14)

FIELD SKETCH OF BORING LOCATION

SEE FIGURE 2

TOP OF CASING ELEVATION 348.53'

DRILLING METHOD Hollow Stem Auger HOLE DIAM. 12"
 SAMPLER TYPE 2-1/2" Continuous
 CASING DATA NA
 DRILLER Clear Heart Construction

| BLOWS PER 1/2 FOOT (in.) | CGI (ppm) | TPH-G (ppm) | SAMPLE | DEPTH (ft.) | Well Construction | USCS PROFILE | DEPTH TO WATER | 44' |
|-----------------------------|-----------|-------------|--------|-------------|-------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| | | | | | | | DATE | 1/31/92 |
| | | | | | | | TIME | 11:00 AM |
| | | | | | | | DESCRIPTION | |
| | 25 | | | 38 | 4" diam. Sch. 40 PVC 0.010" slot End Cap | SM | SILTY SAND: greenish gray, moist; fine grained sand, <5% gravel. | |
| | 0 | ND | | 40 | | CL | SILTY CLAY: medium tan, moist; abundant Fe staining. SILTY CLAY: tan, moist; ~10% common gravel clasts to 1-1/2" diameter, up to 5% organics, abundant Fe staining. | |
| 10 | | | | 42 | | | CLAYEY SILT: tan to medium brown, wet; gravel present, common organics to 5%, Fe staining. | |
| | | | | 44 | | ML | | |
| | | | | 46 | | GP | GRAVELLY SAND: grayish brown, saturated; coarse grained sand, gravel to 1-1/2" diameter. | |
| | | | | 48 | | CL | | |
| | | | | 50 | | GP | SILTY CLAY: tan, wet; Fe staining. | |
| | | | | 52 | | CL | GRAVELLY SAND: gray, saturated; coarse grained sand, gravel to 1-1/2" diameter. | |
| | | | | 54 | | GP | SILTY CLAY: tan, wet; gravel to 1-1/2" diameter, Fe staining. | |
| | | | | 56 | | GP | SANDY GRAVEL: grayish black, saturated; very coarse grained sand, gravel to 2-1/4" diameter. | |
| | | | | | | | Borehole terminated at 56 feet below grade. | |



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 (510) 484-2600

17 January 1992

Alton Geoscience
1000 Burnett Avenue, Suite 140
Concord, CA 94520

Gentlemen:

Enclosed is Drilling permit 92029 for a monitoring well construction project at 1024 Main Street in Pleasanton for Mobil Oil Corporation.

Please note that permit condition A-2 requires that a well construction report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, and permit number.

If you have any questions, please contact Wyman Hong or me at 484-2600.

Very truly yours,

Craig A. Mayfield
Water Resources Engineer

WH:mm
Enc.



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94566 • (415) 484-2600

GROUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

1) LOCATION OF PROJECT 1024 Main Street Pleasanton CA

PERMIT NUMBER 92029 LOCATION NUMBER

2) CLIENT Name Mobil Oil Corp. Address 876-B Southhampton Rd Phone City Benicia CA Zip 94510

PERMIT CONDITIONS

Circled Permit Requirements Apply

3) APPLICANT Name Allyn Geoscience Address 1000 Burnett Ave #140 Phone (510) 682-582 City Concord CA Zip 94521

- A. GENERAL 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects. 3. Permit is void if project not begun within 90 days of approval date.

4) DESCRIPTION OF PROJECT Water Well Construction ___ Geotechnical Investigation ___ Cathodic Protection ___ General ___ Well Destruction ___ Contamination X

- B. WATER WELLS, INCLUDING PIEZOMETERS 1. Minimum surface seal thickness is two inches of cement grout placed by tremie. 2. Minimum seal depth is 90 feet for municipal and industrial wells or 20 feet for domestic, irrigation, and monitoring wells unless a lesser depth is specially approved.

5) PROPOSED WATER WELL USE Domestic ___ Industrial ___ Irrigation ___ Municipal ___ Monitoring X Other ___

6) PROPOSED CONSTRUCTION Drilling Methods: Mud Rotary ___ Air Rotary ___ Auger X Cable ___ Other ___

- C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremie cement grout shall be used in place of compacted cuttings. D. CATHODIC. Fill hole above anode zone with concrete placed by tremie. E. WELL DESTRUCTION. See attached.

DRILLER'S LICENSE NO. 467904

WELL PROJECTS Drill Hole Diameter 12 in. Maximum Depth 55 ft. Casing Diameter 4 in. Number 2 Surface Seal Depth 0-3 ft. Vapor extraction well.

GEOTECHNICAL PROJECTS Number of Borings ___ Maximum Depth ___ ft. Hole Diameter ___ in.

7) ESTIMATED STARTING DATE 1-27-92 ESTIMATED COMPLETION DATE 1-31-92

(8) I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wyman Hong Date 16 Jan 92

APPLICANT'S SIGNATURE [Signature] Date 1-14-92

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

APPENDIX F

ALTON GEOSCIENCE
GENERAL FIELD PROCEDURES
FOR
GROUND WATER MONITORING WELL DEVELOPMENT,
SAMPLING, AND WELLHEAD SURVEY

**ALTON GEOSCIENCE
GENERAL FIELD PROCEDURES
FOR
GROUND WATER MONITORING WELL DEVELOPMENT,
SAMPLING, AND WELLHEAD SURVEY**

Ground Water Monitoring Well Development

New ground water monitoring wells were initially developed to clean the well and to stabilize the sand, gravel, and aquifer materials around the perforated section of the well. Prior to placement of seal materials in the remaining annular space of the wells, the sand pack was stabilized using a surge block. Well development was conducted using one of several acceptable methods, such as bailing, mechanical or air lift pumping, surging, or swabbing. Well development was continued until the well was thoroughly developed and free of sand, silt, and turbidity.

Water generated from the development process was placed into labeled 55-gallon drums, pending laboratory results of the ground water samples, to determine the appropriate disposal method. Disposal of the water conformed to the applicable requirements.

Ground Water Monitoring Well Sampling

Prior to well sampling, ground water in each well was monitored for the presence/absence of free product or sheen. The depth to ground water was measured with an accuracy of 0.01 foot from the top of the PVC well casing using an electronic sounder.

To ensure the ground water sample was representative of the aquifer, the well was purged of 4 to 10 well casing volumes before sample collection. This purging was accomplished using a clean bailer or pump.

The ground water samples were collected using a clean bailer, and then carefully transferred into the appropriate clean, glass, laboratory supplied containers. The sampler wore Nitrile gloves at all times during purging and well sampling. The water samples were handled and preserved in accordance with RWQCB guidelines. The samples were clearly labeled with the well number, site identification, date and time of sample collection, and sampler's initials, and transported to a California-certified laboratory following proper preservation and chain of custody protocol.

RON ARCHER

CIVIL ENGINEER, INC.

CONSULTING • PLANNING • DESIGN • SURVEYING

4133 Mohr Ave., Suite E • Pleasanton, CA 94566
(415) 462-9372



JOB NO. 1739

- Done*
- OCTOBER 24, 1990
 - * REVISED: FEBRUARY 3, 1992

PLAT SHOWING EXISTING MONITOR WELLS AT THE FORMER MOBIL STATION NO. 10-H6J, LOCATED AT 1024 MAIN STREET AT STANLEY BOULEVARD, CITY OF PLEASANTON, ALAMEDA COUNTY, CALIFORNIA.

FOR: ALTON GEOSCIENCE
PROJECT NO. 30-0065-05

BENCHMARK:

A BRASS DISC STAMPED P-1257 ABOUT 0.15 MILE SOUTH ALONG SANTA RITA ROAD FROM THE CROSSING OF THE WESTERN PACIFIC RAILROAD, AT THE SOUTHWEST CORNER AND IN THE DECK OF BRIDGE ACROSS ARROYO DEL VALLE CANAL, 27.5 FEET WEST OF THE CENTER LINE OF ROAD, 6.7 FEET NORTH OF THE SOUTH END OF THE WEST CONCRETE BASE FOR GUARDRAIL, 0.8 FEET EAST OF GUARDRAIL BASE, LEVEL WITH THE DECK OF THE BRIDGE AND 6 FEET EAST OF THE WEST END OF SOUTH CONCRETE BRIDGE ABUTMENT. ELEVATION TAKEN AS 351.991

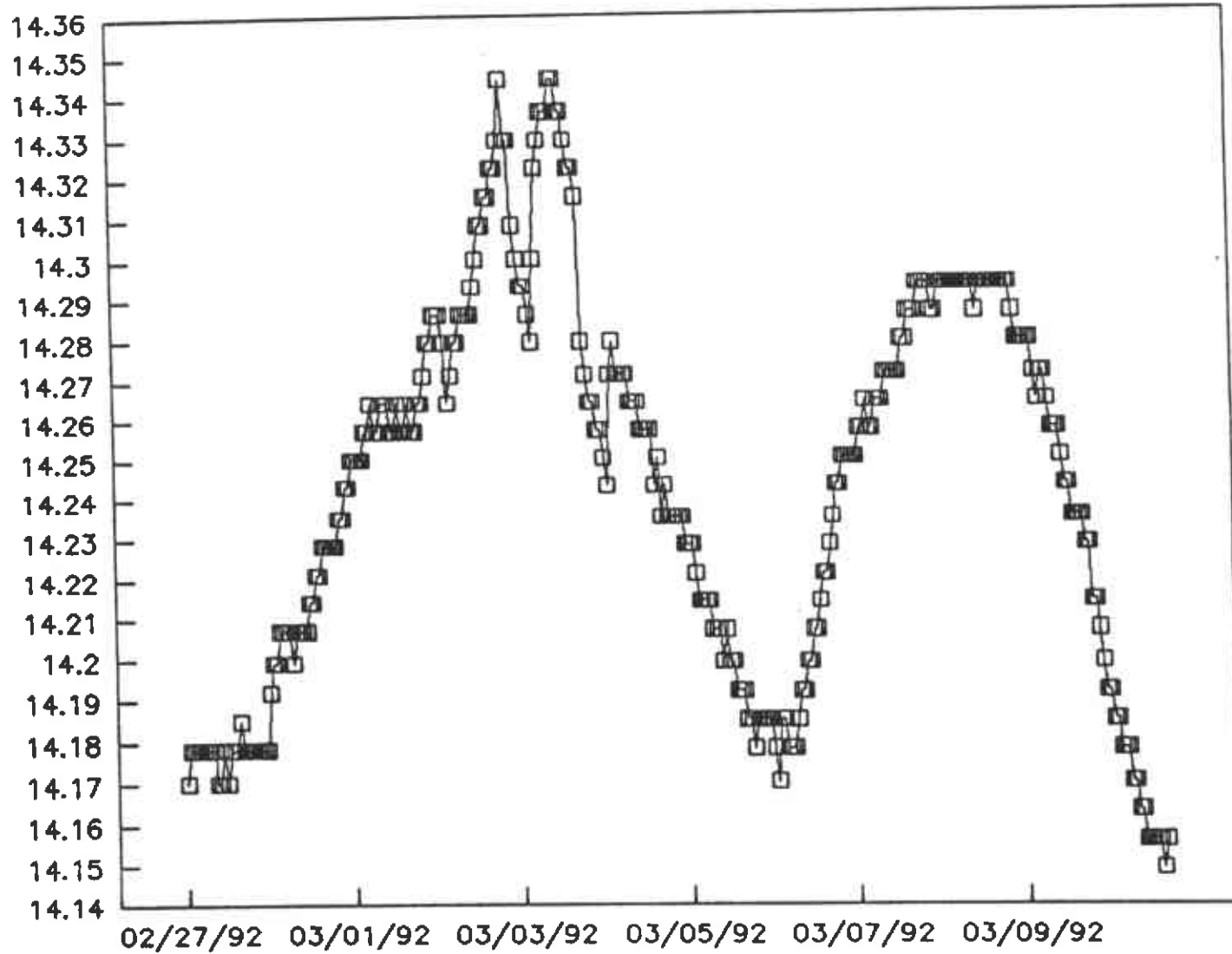
MONITOR WELL DATA TABLE

| WELL NO. | ELEVATION | DESCRIPTION |
|----------|------------------|---------------------------------|
| MW1 | 348.03 348.49 | TOP OF PVC CASING TOP OF BOX |
| MW2 | 348.45 348.72 | TOP OF PVC CASING TOP OF BOX |
| * MW3 | 347.97 348.27 | TOP OF PVC CASING TOP OF BOX |
| MW4 | 348.07 348.46 | TOP OF PVC CASING TOP OF BOX |
| MW5 | 347.97 348.37 | TOP OF PVC CASING TOP OF BOX |
| MW6 | 348.23 348.61 | TOP OF PVC CASING TOP OF BOX |
| MW7 | 347.90 348.40 | TOP OF PVC CASING TOP OF BOX |
| MW8 | 348.90 349.25 | TOP OF PVC CASING TOP OF BOX |
| * MW9 | 348.53 349.06 | TOP OF PVC CASING TOP OF BOX |

APPENDIX G
MONITORING WELL DATA LOGS
AND AQUIFER TESTING

HEIGHT OF WATER COLUMN (feet)

MW-6, 2/27/1992 to 3/1/1992

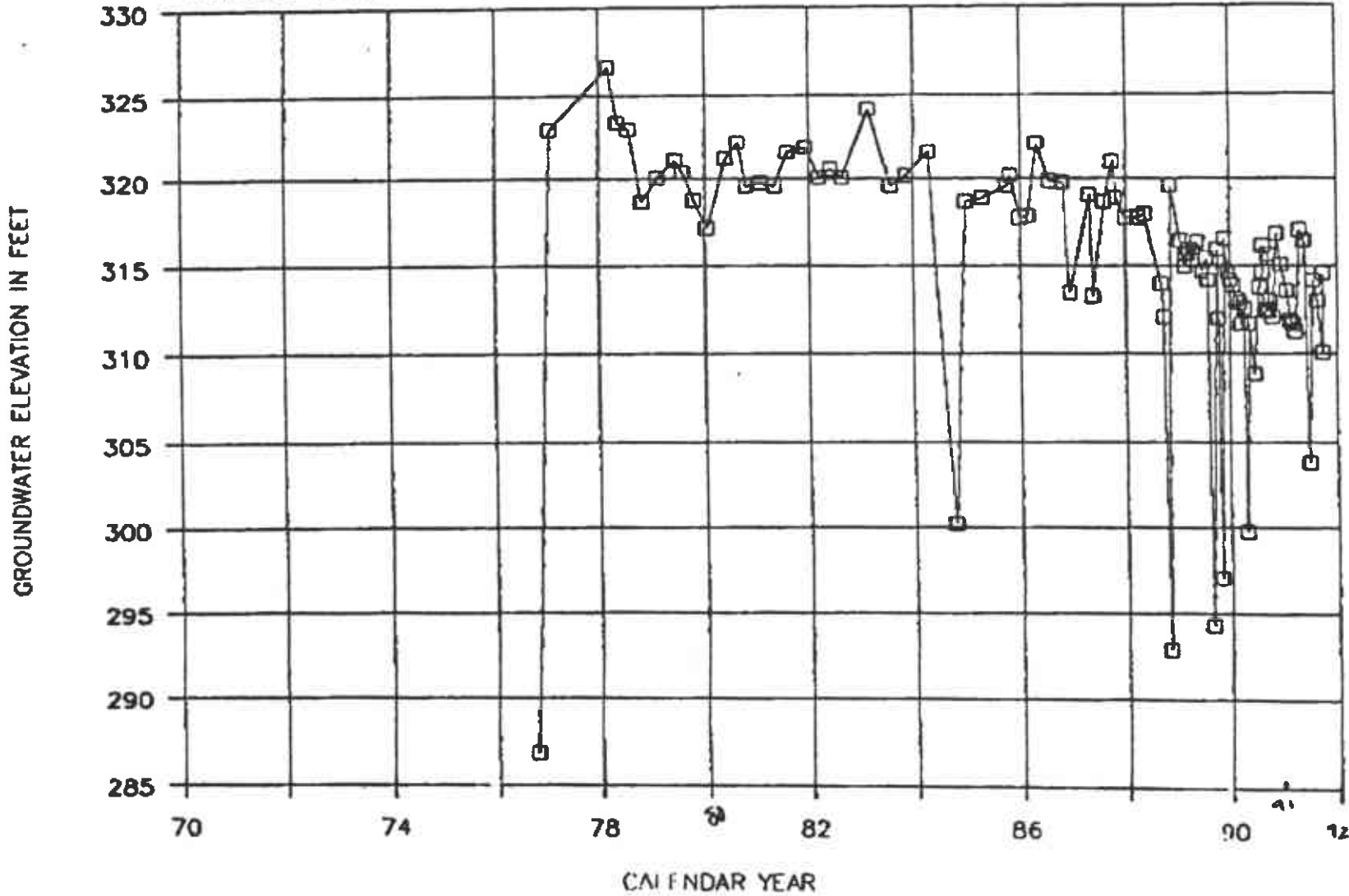


ZONE 7
WATER RESOURCES MONITORING
GROUNDWATER HYDROGRAPH

WELL 3S/1E 16P 5

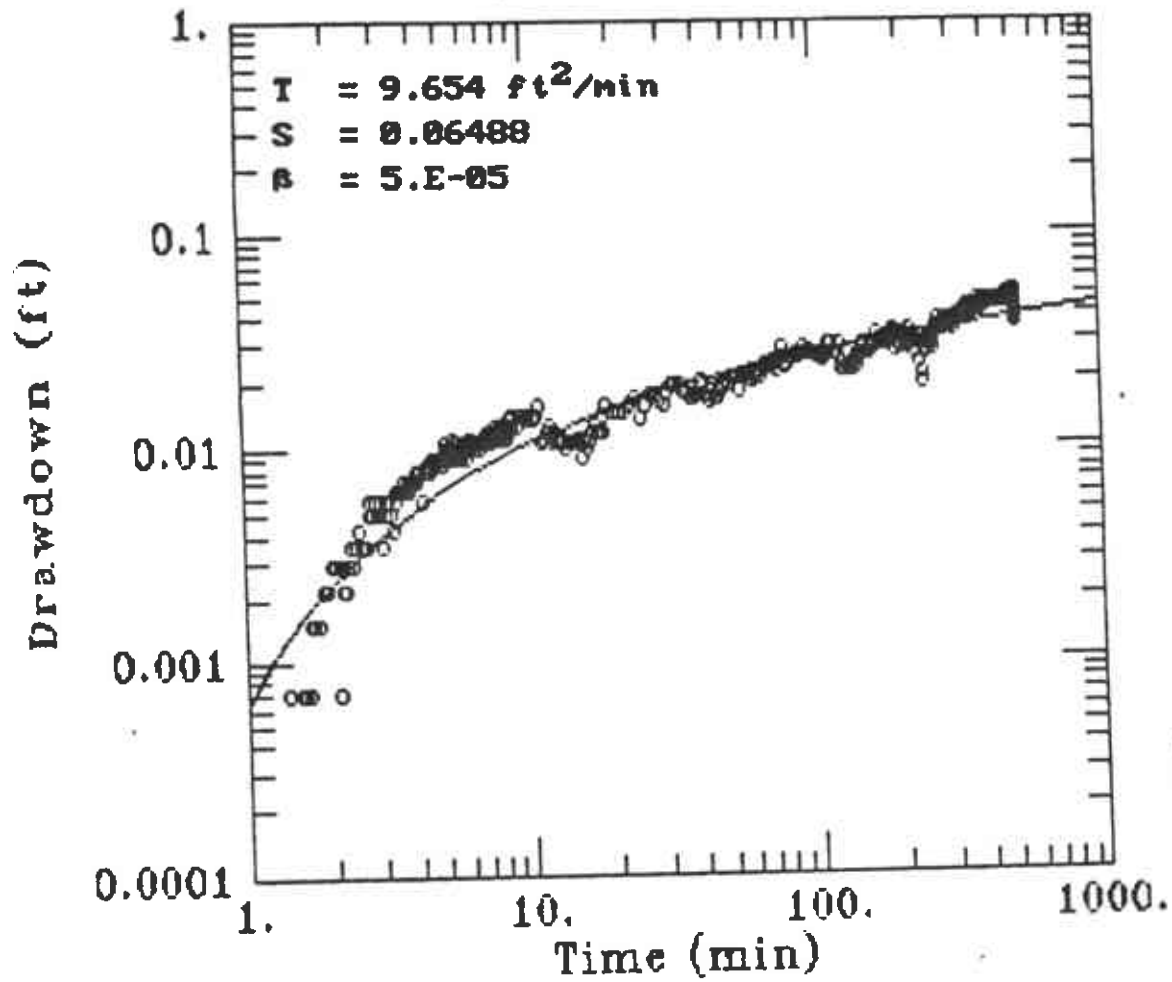
WELL DEPTH 75

WELLHEAD ELEVATION 352



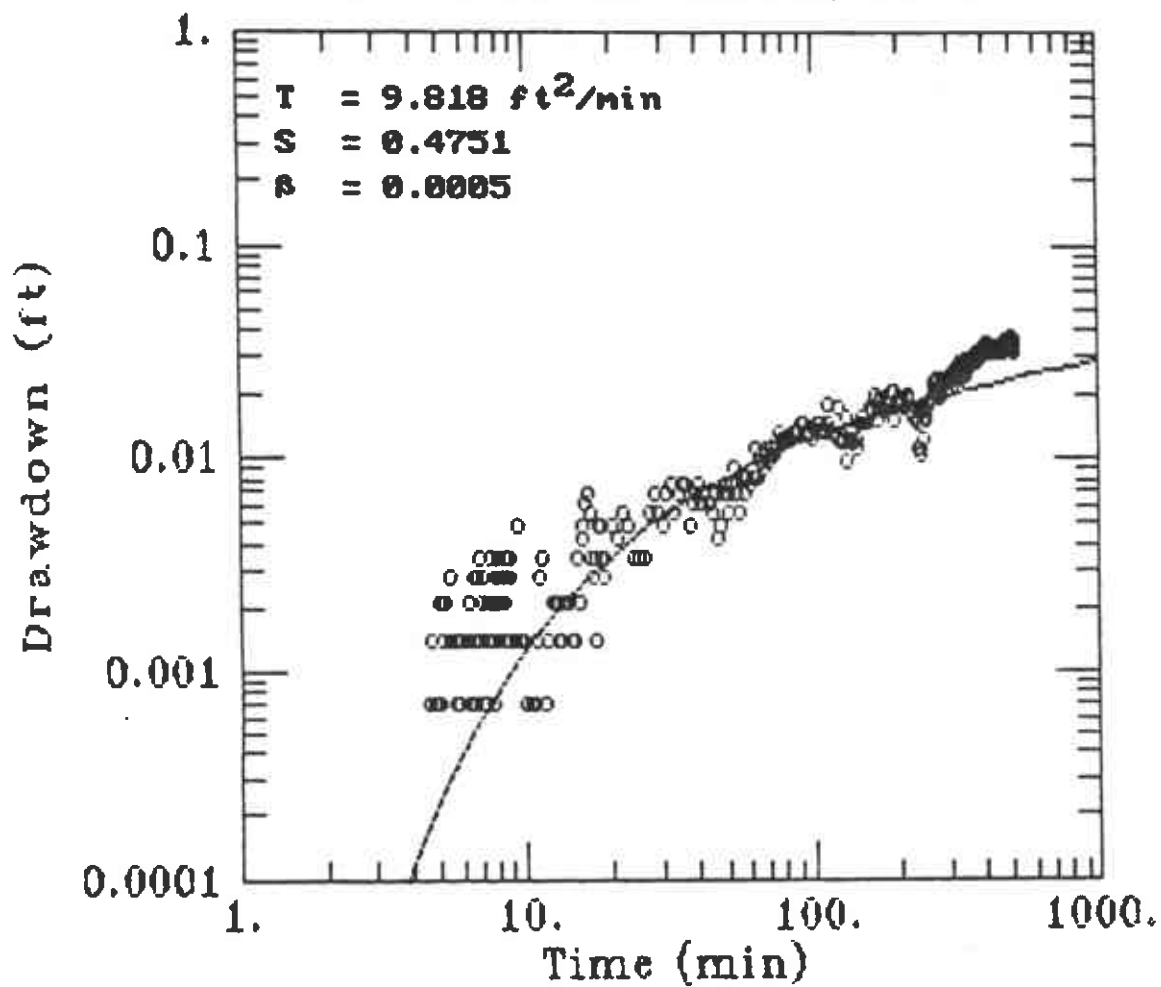
3S/1E 16P 5

30-065; PUMP TEST B; MW-1



AQTESOLV
GERAGHTY
& MILLER, INC.
Modeling Group

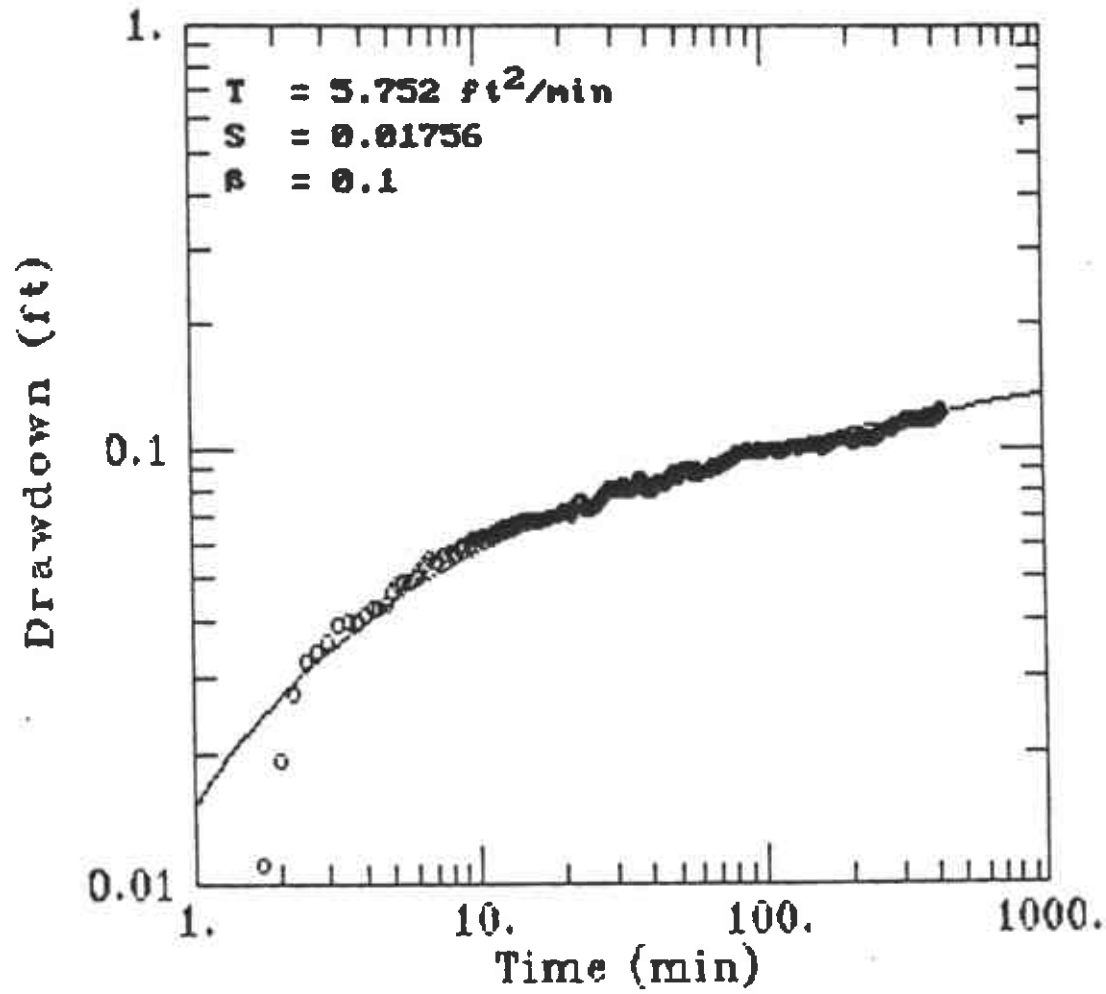
30-065; PUMP TEST B; MW-4



AQTESOLV
GERAGHTY
& MILLER, INC.
Modeling Group

APPENDIX H
LABORATORY REPORTS
AND
CHAIN OF CUSTODY DOCUMENTATION

30-065 PUMP TEST A; MW-4



AQTESOLV
GERAGHTY
& MILLER, INC.
Modeling Group



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 886-9600 • FAX (510) 886-9889

Inside Lab Room

| | | |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Alton Geoscience 5870 Stoneridge Drive, Suite 6 Pleasanton, CA 94588 Attention: Charle D' Andrea | Client Project ID: Mobil #10-H&J/20-0085-05 Sample Descript: Water, MW-g Analysis Method: EPA 8030/8015/8020 Lab Number: 202-0129 | Sampled: Feb 4, 1992 Received: Feb 5, 1992 Analyzed: Feb 5, 1992 Reported: Feb 14, 1992 |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION (EPA 8015/8020)

| Analyte | Detection Limit µg/L (ppb) | Sample Results µg/L (ppb) |
|------------------------------------------|-------------------------------|------------------------------|
| Low to Medium Boiling Point Hydrocarbons | 2.000 | 18,000 |
| Benzene | 3.0 | 3,000 |
| Toluene | 2.0 | 740 |
| Ethyl Benzene | 2.0 | 200 |
| Xylenes | 3.0 | 2,500 |

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Scott A. Chieffo
Project Manager



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
 (510) 886-9800 • FAX (510) 886-9689

| | | |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Aton Geoscience 6870 Stoneridge Drive, Suite 8 Pleasanton, CA 94588 Attention: Cherie D' Andrea | Client Project ID: Mobil #10-H6J/30-0065-05 Sample Descript: Water, MW-9 Analyse Method: EPA 6030/8010 Lab Number: 202-0129 | Sampled: Feb 4, 1992 Received: Feb 5, 1992 Analyzed: Feb 13, 1992 Reported: Feb 14, 1992 |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|------------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 25 | N.D. |
| Bromoform..... | 25 | N.D. |
| Bromomethane..... | 25 | N.D. |
| Carbon tetrachloride..... | 25 | N.D. |
| Chlorobenzene..... | 25 | N.D. |
| Chloroethane..... | 25 | N.D. |
| 2-Chloroethylnyl ether..... | 25 | N.D. |
| Chloroform..... | 25 | N.D. |
| Chloromethane..... | 25 | N.D. |
| Dibromochloromethane..... | 25 | N.D. |
| 1,3-Dichlorobenzene..... | 25 | N.D. |
| 1,4-Dichlorobenzene..... | 25 | N.D. |
| 1,2-Dichlorobenzene..... | 25 | N.D. |
| 1,1-Dichloroethane..... | 25 | N.D. |
| 1,2-Dichloroethane..... | 25 | 58 |
| 1,1-Dichloroethene..... | 25 | N.D. |
| cis-1,2-Dichloroethene..... | 25 | N.D. |
| trans-1,2-Dichloroethene..... | 25 | N.D. |
| 1,2-Dichloropropane..... | 25 | N.D. |
| cis-1,3-Dichloropropane..... | 25 | N.D. |
| trans-1,3-Dichloropropane..... | 25 | N.D. |
| Methylene chloride..... | 250 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 25 | N.D. |
| Tetrachloroethane..... | 25 | N.D. |
| 1,1,1-Trichloroethane..... | 25 | N.D. |
| 1,1,2-Trichloroethane..... | 25 | N.D. |
| Trichloroethene..... | 25 | N.D. |
| Trichlorofluoromethane..... | 25 | N.D. |
| Vinyl chloride..... | 25 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

 Scott A. Chierfo
 Project Manager



SEQUOIA ANALYTICAL

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 (510) 686-9600 • FAX (510) 686-9689

| | | |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Alton Geoscience 5870 Stoneridge Drive, Suite 6 Pleasanton, CA 94588 Attention: Charlie D'Andrea | Client Project ID: Mobil #10-H&J/30-0065-05 Sample Descript: Water Analysis Method: California LUFT Manual, 12/87 First Sample #: 202-0129 | Sampled: Feb 4, 1992 Received: Feb 5, 1992 Analyzed: Feb 9, 1992 Reported: Feb 14, 1992 |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|

ORGANIC LEAD

| Sample Number | Sample Description | Sample Results mg/L |
|---------------|--------------------|---------------------|
| 202-0129 | MW-6 | N.D. |

Detection Limits: 0.050

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Scott A. Chietto
 Scott A. Chietto
 Project Manager



SEQUOIA ANALYTICAL

1900 Bales Avenue • Suite LM • Concord, California 94520
(510) 886-9600 • FAX (510) 886-9599

Alton Geoscience

Client Project ID: Mobil #10-H6J/30-0065-05

5870 Stoneridge Drive, Suite 6
Pleasanton, CA 94588

Attention: Charle D' Andrea

QC Sample Group: 202-0129

Reported: Feb 14, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl-Benzene | Xylenes | Organic Lead | Oil and Grease |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Method: | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 | LUFT | EPA 413.2 |
| Analyst: | K.E. | K.E. | K.E. | K.E. | T. Marcarenas | D. Newcomb |
| Reporting Units: | ug/L | ug/L | ug/L | ug/L | mg/L | mg/L |
| Date Analyzed: | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 | Feb 8, 1992 | Feb 4, 1992 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank | Matrix Blank | 202-0129 | Matrix Blank |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 20 | 20 | 20 | 60 | 5.0 | 100 |
| Conc. Matrix Spike: | 16 | 16 | 16 | 49 | 5.6 | 93 |
| Matrix Spike % Recovery: | 80 | 80 | 80 | 82 | 112 | 93 |
| Conc. Matrix Spike Dup.: | 18 | 18 | 18 | 55 | 5.3 | 96 |
| Matrix Spike Duplicate % Recovery: | 90 | 90 | 90 | 92 | 106 | 96 |
| Relative % Difference: | 12 | 12 | 12 | 8.6 | 5.5 | 2.0 |

SEQUOIA ANALYTICAL

Scott A. Chieffo
Scott A. Chieffo
Project Manager

$$\% \text{ Recovery: } \frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$$

$$\text{Relative \% Difference: } \frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$$



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

Alton Geoscience Client Project ID: Mobil #10-H6J/30-0065-05
5870 Stoneridge Drive, Suite 8
Pleasanton, CA 94588
Attention: Charlie D'Andrea OC Sample Group: 202-0129
Reported: Feb 14, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloroethene | Trichloro-ethene | Chloro-benzene |
|---------|--------------------|------------------|----------------|
|---------|--------------------|------------------|----------------|

| | | | |
|------------------|--------------|--------------|--------------|
| Method: | EPA 8010 | EPA 8010 | EPA 8010 |
| Analyst: | M. Nguyen | M. Nguyen | M. Nguyen |
| Reporting Units: | ug/L | ug/L | ug/L |
| Date Analyzed: | Feb 12, 1992 | Feb 12, 1992 | Feb 12, 1992 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank |

| | | | |
|------------------------------------|------|------|------|
| Sample Conc.: | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 10 | 10 | 10 |
| Conc. Matrix Spike: | 8.1 | 9.3 | 10 |
| Matrix Spike % Recovery: | 81 | 93 | 100 |
| Conc. Matrix Spike Dup.: | 8.2 | 9.7 | 10 |
| Matrix Spike Duplicate % Recovery: | 82 | 97 | 100 |
| Relative % Difference: | 1.2 | 4.2 | 0.0 |

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Scott A. Chieffo
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |

Mobil Chain of Custody



SEQUOIA ANALYTICAL

Redwood City:
Concord:
Sacramento:

(415) 364-9600
(510) 686-9600
(916) 921-9600

| | | |
|------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| Consulting Firm Name: <u>Alton Geoscience</u> | Site SS #: <u>10-H6J</u> | Phase of Work: |
| Address: <u>1000 Burnett Ave #140</u> | Mobil Site Address: <u>1024 Main St Placaster</u> | <input type="checkbox"/> A. Emrg. Response |
| City: <u>Concord</u> State: <u>CA</u> Zip Code: <u>94521</u> | Mobil Engineer: <u>Ed Hoepker</u> | <input type="checkbox"/> B. Site Assessment |
| Telephone: <u>510 682-1582</u> FAX #: <u>682-8921</u> | Consultant Project #: <u>30-0065-05</u> | <input type="checkbox"/> C. Remediation |
| Project Contact: <u>C. D'Andrea</u> Sampled by: <u>Chris Reinheine</u> | Sequoia's Work Order Release #: | <input checked="" type="checkbox"/> D. Monitoring |
| | | <input type="checkbox"/> E. OGC/Claims |

Turnaround Time: Standard TAT (5 - 10 Working Days)
 Other _____

| Client Sample I.D. | Date/Time Sampled | Matrix Description | # of Containers | Sequoia's Sample # | Analyses Requested | | | | | Comments |
|--------------------|-------------------|--------------------|-----------------|--------------------|--------------------|------------|-------------------------|----------------------------|--------|----------|
| | | | | | TPH Gas/BTEX | TPH Diesel | TRIPH by I.R. EPA 418.1 | Oil & Grease EPA 413.2-706 | HVOC's | |
| 1. MW-9 | 2-4-92 | WATER | 10 | 2020029AS | X | | X | X | X | |
| 2. | | | | | | | | | | |
| 3. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| 5. | | | | | | | | | | |
| 6. | | | | | | | | | | |
| 7. | | | | | | | | | | |
| 8. | | | | | | | | | | |
| 9. | | | | | | | | | | |
| 10. | | | | | | | | | | |

| | | | |
|-------------------------------------|---------------------------------------|---------------------------------|------------------------------------------|
| Relinquished By: <u>[Signature]</u> | Date: <u>2-4-92</u> Time: <u>9:15</u> | Received By: <u>[Signature]</u> | Date: <u>2-9-92</u> Time: <u>9:40 AM</u> |
| Relinquished By: _____ | Date: _____ Time: _____ | Received By: _____ | Date: _____ Time: _____ |
| Relinquished By: _____ | Date: _____ Time: _____ | Received By: _____ | Date: _____ Time: _____ |



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(415) 686-9600 • FAX (415) 686-9689

SEP - 3 1991

| | | |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Alton Geoscience 1000 Burnett Street, Suite 140 Concord, CA 94520 Attention: Cherle D'Andrea | Client Project ID: Mobil #30-0065, 1024 Main St. Matrix Descript: Water Pleasanton Analysis Method: EPA 5030/8015/8020 First Sample #: 108-1051 AB | Sampled: Aug 21, 1991 Received: Aug 21, 1991 Analyzed: Aug 23, 1991 Reported: Aug 28, 1991 |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons | Benzene | Toluene | Ethyl Benzene | Xylenes |
|---------------|--------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) |
| 1081051 AB | CPT-4 | 360 | 10 | 9.0 | 2.9 | 8.8 |
| 1081052 AB | CPT-9B | N.D. | N.D. | N.D. | N.D. | N.D. |

| | | | | | |
|-------------------|----|------|------|------|------|
| Detection Limits: | 30 | 0.30 | 0.30 | 0.30 | 0.30 |
|-------------------|----|------|------|------|------|

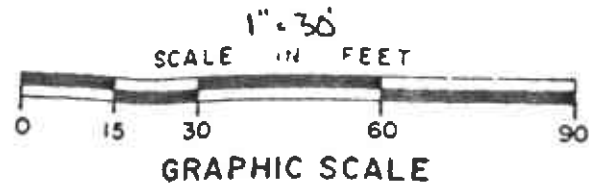
Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Julia R. Malerstein
Project Manager

1081051.ALG <1>

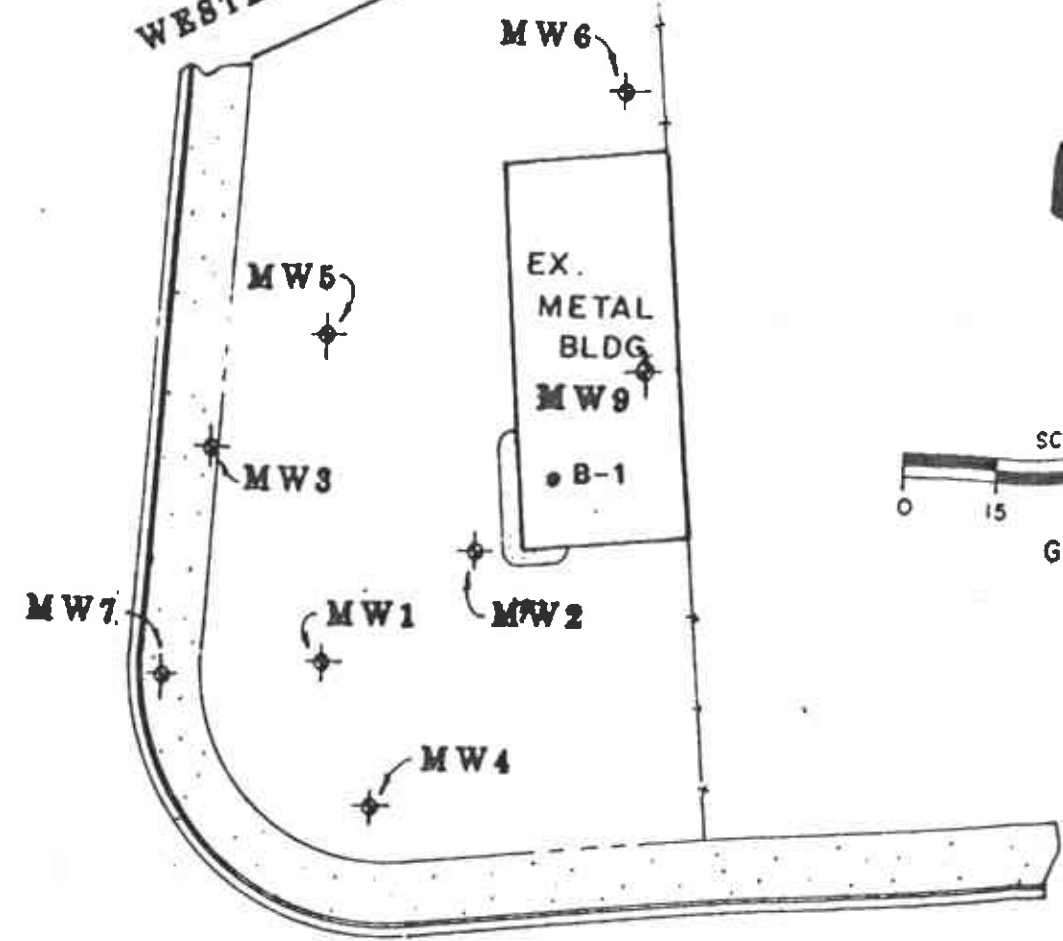
WESTERN PACIFIC RAILROAD



VICINITY MAP
NO SCALE

SANTA RITA ROAD

STANLEY BLVD.



| MONITOR WELL DATA TABLE | | |
|-------------------------|------------------|---------------------------------|
| WELL NO. | ELEVATION | DESCRIPTION |
| MW1 | 348.83 348.49 | TOP OF PVC CASING TOP OF BOX |
| MW2 | 348.45 348.72 | TOP OF PVC CASING TOP OF BOX |
| MW3 | 347.97 348.27 | TOP OF PVC CASING TOP OF BOX |
| MW4 | 348.87 348.46 | TOP OF PVC CASING TOP OF BOX |
| MW5 | 347.87 348.27 | TOP OF PVC CASING TOP OF BOX |
| MW6 | 348.23 348.61 | TOP OF PVC CASING TOP OF BOX |
| MW7 | 347.98 348.48 | TOP OF PVC CASING TOP OF BOX |
| MW8 | 348.98 348.25 | TOP OF PVC CASING TOP OF BOX |
| MW9 | 348.53 348.86 | TOP OF PVC CASING TOP OF BOX |

BENCHMARK: A BRASS DISC STAMPED P-1257 ABOUT 0.15 MILE SOUTH ALONG SANTA RITA ROAD FROM THE CROSSING OF THE WESTERN PACIFIC RAILROAD, AT THE SOUTHWEST CORNER AND IN THE DECK OF BRIDGE ACROSS ARROYO DEL VALLE CREEK, 27.5 FEET WEST OF THE CENTER LINE OF ROAD, 6.7 FEET NORTH OF THE SOUTH END OF THE WEST CONCRETE BASE FOR GUARDRAIL, 6.8 FEET EAST OF GUARDRAIL BASE, LEVEL WITH THE DECK OF THE BRIDGE AND 6 FEET EAST OF THE WEST END OF SOUTH CONCRETE BRIDGE ABUTMENT.
ELEVATION TAKEN AS 351.991

OCTOBER 24, 1998
REVISED: FEBRUARY 3, 1992

JOB NO. 1739

PLAN SHOWING EXISTING MONITOR WELLS AT THE FORMER MOBIL STATION NO. 18-16J, LOCATED AT 1824 MAIN STREET AT STANLEY BOULEVARD, CITY OF PLEASANTON, ALAMEDA COUNTY, CALIFORNIA.

FOR: ALTON GEOSCIENCE
PROJECT NO. 38-8865-85



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(415) 686-9600 • FAX (415) 686-9689

Alton Geoscience
1000 Burnett Street, Suite 140
Concord, CA 94520
Attention: Cherle D'Andrea

Client Project ID: Mobil#30-0065, 1024 Main St.

QC Sample Group: 1081051-52

Reported: Aug 28, 1991

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | | Ethyl Benzene | | Xylenes | |
|------------------------------------|--------------|--------------|---------------|--------------|--------------|--------------|
| | Benzene | Toluene | Benzene | Toluene | Benzene | Xylenes |
| Method: | EPA8015/8020 | EPA8015/8020 | EPA8015/8020 | EPA8015/8020 | EPA8015/8020 | EPA8015/8020 |
| Analyst: | RH/JF | RH/JF | RH/JF | RH/JF | RH/JF | RH/JF |
| Reporting Units: | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l |
| Date Analyzed: | Aug 23, 1991 | Aug 23, 1991 | Aug 23, 1991 | Aug 23, 1991 | Aug 23, 1991 | Aug 23, 1991 |
| QC Sample #: | 108-0586 | 108-0586 | 108-0586 | 108-0586 | 108-0586 | 108-0586 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 20 | 20 | 20 | 20 | 60 | 60 |
| Conc. Matrix Spike: | 22 | 20 | 22 | 22 | 71 | 71 |
| Matrix Spike % Recovery: | 110 | 100 | 110 | 110 | 120 | 120 |
| Conc. Matrix Spike Dup.: | 21 | 19 | 20 | 20 | 67 | 67 |
| Matrix Spike Duplicate % Recovery: | 110 | 95 | 100 | 100 | 110 | 110 |
| Relative % Difference: | 4.7 | 5.1 | 9.5 | 9.5 | 5.8 | 5.8 |

SEQUOIA ANALYTICAL

JR Malerstein
Julia R. Malerstein
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |

1081051.ALG <2>



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(415) 686-9600 • FAX (415) 686-9689

SEP - 3 1991

Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-0065
Matrix Descript: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 108-0757 AE

Sampled: 8/14,15/91
Received: Aug 16, 1991
Analyzed: Aug 21, 1991
Reported: Aug 27, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. | Benzene | Toluene | Ethyl Benzene | Xylenes |
|---------------|--------------------|-------------------------------|---------------|---------------|---------------|---------------|
| | | Hydrocarbons µg/L (ppb) | µg/L (ppb) | µg/L (ppb) | µg/L (ppb) | µg/L (ppb) |
| 108-0757 AE | CPT-7 | 670 | 8.6 | 3.2 | 1.3 | 1.7 |
| 108-0758 AE | CPT-6 | N.D. | 0.34 | 0.41 | N.D. | 0.46 |
| 108-0759 AE | CPT-8 | N.D. | N.D. | 0.34 | N.D. | 0.40 |
| 108-0760 AC | CPT-2 | N.D. | N.D. | N.D. | N.D. | N.D. |
| 108-0761 AE | PCPT-3 | 360 | 16 | 32 | 5.8 | 50 |
| 108-0762 AE | PCPT-1 | 88 | 4.0 | 0.32 | 0.39 | 0.49 |

| | | | | | |
|-------------------|----|------|------|------|------|
| Detection Limits: | 30 | 0.30 | 0.30 | 0.30 | 0.30 |
|-------------------|----|------|------|------|------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Julia R. Malerstein
Project Manager



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
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Alton Geoscience
1000 Burnett Street, Suite 140
Concord, CA 94520
Attention: Cherle D'Andrea

Client Project ID: Mobil # 30-0065, 1024 Main St.
Sample Descript: Water Pleasanton
Analysis for: EPA 7421-Total Lead
First Sample #: 108-1051

Sampled: Aug 21, 1991
Received: Aug 21, 1991
Extracted: Aug 27, 1991
Analyzed: Aug 27, 1991
Reported: Aug 28, 1991

LABORATORY ANALYSIS FOR: EPA 7421-Total Lead

| Sample Number | Sample Description | Detection Limit mg/L | Sample Result mg/L |
|---------------|--------------------|----------------------|--------------------|
| 108-1051 | CPT-4 | 0.0050 | 0.075 |
| 108-1052 | CPT-9B | 0.0050 | 0.0099 |

Analytes reported as N.D. were not present above the stated limit of detection.

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Julia R. Malerstein
Project Manager



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Alton Geoscience
1000 Burnett Street, Suite 140
Concord, CA 94520
Attention: Cherle D'Andrea

Client Project ID: Mobil #30-0065, 1024 Main St.

QC Sample Group: 1081051-52

Reported: Aug 28, 1991

QUALITY CONTROL DATA REPORT

ANALYTE Lead

Method: EPA 7421
Analyst: S.Foster
Reporting Units: mg/L
Date Analyzed: Aug 27, 1991
QC Sample #: 108-0023

Sample Conc.: N.D.

Spike Conc. Added: 0.10

Conc. Matrix Spike: 0.086

Matrix Spike % Recovery: 86

Conc. Matrix Spike Dup.: 0.091

Matrix Spike Duplicate % Recovery: 91

Relative % Difference: 5.6

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J.R. Malerstein
Julia R. Malerstein
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherle D'Andrea

Client Project ID: 30-0065

QC Sample Group: 1080757-62

Reported: Aug 27, 1991

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | | Ethyl-Benzene | | Xylenes | |
|---------|---------|--|---------------|--|---------|--|
| | | | | | | |

| | | | | |
|------------------|--------------|--------------|--------------|--------------|
| Method: | EPA8015/8020 | EPA8015/8020 | EPA8015/8020 | EPA8015/8020 |
| Analyst: | RH/JF | RH/JF | RH/JF | RH/JF |
| Reporting Units: | µg/L | µg/L | µg/L | µg/L |
| Date Analyzed: | Aug 21, 1991 | Aug 21, 1991 | Aug 21, 1991 | Aug 21, 1991 |
| QC Sample #: | 108-0872 | 108-0872 | 108-0872 | 108-0872 |

| | | | | |
|------------------------------------|------|------|------|------|
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 20 | 20 | 20 | 60 |
| Conc. Matrix Spike: | 20 | 20 | 21 | 65 |
| Matrix Spike % Recovery: | 100 | 100 | 110 | 110 |
| Conc. Matrix Spike Dup.: | 21 | 20 | 22 | 67 |
| Matrix Spike Duplicate % Recovery: | 110 | 100 | 110 | 110 |
| Relative % Difference: | 4.9 | 0 | 4.7 | 3.0 |

SEQUOIA ANALYTICAL

Julia R. Malerstein
Julia R. Malerstein
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-0065

QC Sample Group: 1080757-62

Reported: Aug 27, 1991

QUALITY CONTROL DATA REPORT

ANALYTE

Lead

Method: EPA 7421
Analyst: T. Mascarenas
Reporting Units: mg/L
Date Analyzed: Aug 26, 1991
QC Sample #: 108-1083

Sample Conc.: N.D.

Spike Conc.
Added: 0.0050

Conc. Matrix
Spike: 0.0039

Matrix Spike
% Recovery: 78

Conc. Matrix
Spike Dup.: 0.0040

Matrix Spike
Duplicate
% Recovery: 80

Relative
% Difference: 2.5

SEQUOIA ANALYTICAL

Julia R. Malerstein
Julia R. Malerstein
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



SEQUOIA ANALYTICAL

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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-0065
Sample Descript: Water
Analysis for: EPA 7421- Lead
First Sample #: 108-0757 F

Sampled: 8/14,15/91
Received: Aug 16, 1991
Extracted: Aug 26, 1991
Analyzed: Aug 26, 1991
Reported: Aug 27, 1991

LABORATORY ANALYSIS FOR: EPA 7421- Lead

| Sample Number | Sample Description | Detection Limit mg/L | Sample Result mg/L |
|---------------|--------------------|----------------------|--------------------|
| 108-0757 F | CPT-7 | 0.0050 | N.D. |
| 108-0758 F | CPT-6 | 0.0050 | 0.038 |
| 108-0759 F | CPT-2 | 0.0050 | 0.040 |
| 108-0761 F | PCPT-3 | 0.0050 | 0.080 |
| 108-0762 F | PCPT-1 | 0.0050 | 0.020 |

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Julia R. Malerstein
Project Manager

1080757.ALG <3>

**ALTON GEOSCIENCE**1000 BURNETT ST., #140
CONCORD, CA 94520 (415) 882-1582**CHAIN OF CUSTODY RECORD**

PAGE: 1 of 1

DATE: 8/16/91

RESULTS DUE BY: 9/23/91

PROJECT NUMBER: 30-0065

PROJECT NAME AND ADDRESS: Former Mobil S.S.
224 Main St. Pleasanton

PROJECT MANAGER: CHERIE D'ANDREA

SAMPLER'S SIGNATURE: Cherie D'Andrea

LABORATORY: Sequoia

REMARKS OR SPECIAL INSTRUCTIONS:

DIRECT BILLING TO MOBIL OIL -
5 DAY T.A.T.

NOTE: Plastic Liters are not full.

NOTE: PLEASE INDICATE VERBAL REQUESTS FOR ADDITIONAL ANALYSES IN
THIS BOX.

| SAMPLE NUMBER | SAMPLE DATE/TIME | LOCATION/ DESCRIPTION | SAMPLE MATERIAL | SAMPLE TYPE: | | NUMBER OF CONTAINERS | SAMPLE PREP. | | | SOIL ANALYSIS | | | | WATER ANALYSIS | | | | | | |
|---------------|------------------|-----------------------|-----------------|--------------|-------|--------------------------|-------------------|------------------|--------------------|------------------|-------------------|-------------------|-----------------------|----------------|------------------|------------------|-----------|-----------------------|----------------|----|
| | | | | GRAB | COMP. | | 3510: SOLV. EXTR. | 3810: HEAD SPACE | 5030: PURGE & TRAP | 418.1: TPHC (IR) | 8010: HALOCARBONS | 8020: BTXE /TPH-G | DHS METHOD: TPHC (GC) | 7420: TOTAL Pb | 418.1: TPHC (IR) | 801: HALOCARBONS | 802: BTXE | DHS METHOD: TPHC (GC) | 7421: TOTAL Pb | |
| | 8/14/91 11:20 | CPT-7 | Water | | | 5VOLS 1 PL. | | | | | | X | X | | | | | 1080 | 757 | 71 |
| | 8/14/91 11:15 | CPT-6 | Water | | | 5VOLS 1 PL. | | | | | | X | X | | | | | | 758 | |
| | 8/14/91 14:15 | CPT-8 | Water | | | 5VOLS 1 PL. | | | | | | X | X | | | | | | 759 | |
| | 8/15/91 6:05 | CPT-2 | Water | | | 5VOLS | | | | | | X | | | | | | | 760 | AC |
| | 8/15/91 11:00 | PCPT-3 | Water | | | 5VOLS 1 PL. | | | | | | X | X | | | | | | 761 | AF |
| | 8/15/91 2:45 | PCPT-1 | Water | | | 5VOLS 1 PL. | | | | | | X | X | | | | | | 762 | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | TOTAL NO. OF CONTAINERS: | | | | | | | | | | | | | | |

| | | | |
|--------------------------------------------|------------------------------------|-------------------------|---------------------|
| RELINQUISHED BY: <i>Cherie D'Andrea</i> | RECEIVED BY: <i>[Signature]</i> | DATE/TIME: 8/16 1345 | METHOD OF SHIPMENT: |
| RELINQUISHED BY: | RECEIVED BY: | DATE/TIME: | SHIPPED BY: |
| RELINQUISHED BY: | RECEIVED BY: | DATE/TIME: | COURIER: |



SEQUOIA ANALYTICAL

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| | | |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Alton Geoscience 1000 Burnett St., #140 Concord, CA 94520 Attention: Cherie D'Andrea | Client Project ID: Mobil #10-HGJ/30-0065-05 Matrix Descript: Water Analysis Method: EPA 5030/8015/8020 First Sample #: 201-0197 | Sampled: Jan 8, 1992 Received: Jan 9, 1992 Analyzed: Jan 9, 1992 Reported: Jan 17, 1992 |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. | Benzene | Toluene | Ethyl Benzene | Xylenes |
|---------------|--------------------|------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | Hydrocarbons $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) |
| 201-0197 | MW-4 | 3,400 | 600 | 880 | 220 | 1,100 |
| 201-0200 | MW-3 | 680 | 8.9 | 26 | 8.5 | 72 |

| | | | | | |
|-------------------|----|------|------|------|------|
| Detection Limits: | 60 | 0.60 | 0.60 | 0.60 | 0.60 |
|-------------------|----|------|------|------|------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Scott A. Chierfo
Scott A. Chierfo
Project Manager



SEQUOIA ANALYTICAL

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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: Mobil #10-HGJ/30-0065-05
Matrix Descript: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 201-0198

Sampled: Jan 8, 1992
Received: Jan 9, 1992
Analyzed: Jan 9, 1992
Reported: Jan 17, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. | Benzene | Toluene | Ethyl Benzene | Xylenes |
|---------------|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | Hydrocarbons | | | | |
| | | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) |
| 201-0198 | MW-1 | 2,400 | 270 | 370 | 18 | 340 |

| | | | | | |
|-------------------|-----|-----|-----|-----|-----|
| Detection Limits: | 300 | 3.0 | 3.0 | 3.0 | 3.0 |
|-------------------|-----|-----|-----|-----|-----|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Arthur G. Burton
Arthur G. Burton
Laboratory Director



SEQUOIA ANALYTICAL

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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: Mobil #10-HGJ/30-0065-05
Matrix Descript: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 201-0199

Sampled: Jan 8, 1992
Received: Jan 9, 1992
Analyzed: Jan 9, 1992
Reported: Jan 17, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. | | | Ethyl | Xylenes |
|---------------|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | Hydrocarbons | Benzene | Toluene | Benzene | |
| | | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) |
| 201-0199 | MW-6 | 370 | 81 | 3.9 | 4.5 | 2.9 |

| | | | | | |
|--------------------------|------------|------------|------------|------------|------------|
| Detection Limits: | 150 | 1.5 | 1.5 | 1.5 | 1.5 |
|--------------------------|------------|------------|------------|------------|------------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Scott Chieffo
Scott A. Chieffo
Project Manager



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: Mobil #10-HGJ/30-0065-05
Matrix Descript: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 201-0201

Sampled: Jan 8, 1992
Received: Jan 9, 1992
Analyzed: Jan 9, 1992
Reported: Jan 17, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons | Benzene | Toluene | Ethyl Benzene | Xylenes |
|---------------|--------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) |
| 201-0201 | MW-7 | 220 | 7.8 | 1.7 | N.D. | 0.55 |

| | | | | | |
|-------------------|----|------|------|------|------|
| Detection Limits: | 30 | 0.30 | 0.30 | 0.30 | 0.30 |
|-------------------|----|------|------|------|------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Scott A. Chieffo
Project Manager



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherle D'Andrea

Client Project ID: Mobil #10-HGJ/30-0065-05
Sample Descript: Wastewater, MW-4
Analysis Method: EPA 601
Lab Number: 201-0197

Sampled: Jan 8, 1992
Received: Jan 9, 1992
Analyzed: Jan 15, 1992
Reported: Jan 17, 1992

PURGEABLE HALOCARBONS (EPA 601)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|--------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 2.5 | N.D. |
| Bromoform..... | 5.0 | N.D. |
| Bromomethane..... | 5.0 | N.D. |
| Carbon tetrachloride..... | 2.5 | N.D. |
| Chlorobenzene..... | 2.5 | N.D. |
| Chloroethane..... | 5.0 | N.D. |
| 2-Chloroethylvinyl ether..... | 5.0 | N.D. |
| Chloroform..... | 2.5 | N.D. |
| Chloromethane..... | 5.0 | N.D. |
| Dibromochloromethane..... | 2.5 | N.D. |
| 1,2-Dichlorobenzene..... | 2.5 | N.D. |
| 1,3-Dichlorobenzene..... | 2.5 | N.D. |
| 1,4-Dichlorobenzene..... | 2.5 | N.D. |
| Dichlorodifluoromethane..... | 10 | N.D. |
| 1,1-Dichloroethane..... | 2.5 | N.D. |
| 1,2-Dichloroethane..... | 2.5 | 9.2 |
| 1,1-Dichloroethene..... | 2.5 | N.D. |
| cis-1,2-Dichloroethene..... | 2.5 | N.D. |
| trans-1,2-Dichloroethene..... | 2.5 | N.D. |
| 1,2-Dichloropropane..... | 2.5 | N.D. |
| cis-1,3-Dichloropropene..... | 5.0 | N.D. |
| trans-1,3-Dichloropropene..... | 5.0 | N.D. |
| Methylene chloride..... | 10 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 2.5 | N.D. |
| Tetrachloroethene..... | 2.5 | N.D. |
| 1,1,1-Trichloroethane..... | 2.5 | N.D. |
| 1,1,2-Trichloroethane..... | 2.5 | N.D. |
| Trichloroethene..... | 2.5 | N.D. |
| Trichlorofluoromethane..... | 5.0 | N.D. |
| Vinyl chloride..... | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Scott A. Chieffo
Project Manager



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherle D'Andrea

Client Project ID: Mobil #10-HGJ/30-0065-05
Sample Descript: Wastewater, MW-1
Analysis Method: EPA 601
Lab Number: 201-0198

Sampled: Jan 8, 1992
Received: Jan 9, 1992
Analyzed: Jan 15, 1992
Reported: Jan 17, 1992

PURGEABLE HALOCARBONS (EPA 601)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|--------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 2.5 | N.D. |
| Bromoform..... | 5.0 | N.D. |
| Bromomethane..... | 5.0 | N.D. |
| Carbon tetrachloride..... | 2.5 | N.D. |
| Chlorobenzene..... | 2.5 | N.D. |
| Chloroethane..... | 5.0 | N.D. |
| 2-Chloroethylvinyl ether..... | 5.0 | N.D. |
| Chloroform..... | 2.5 | N.D. |
| Chloromethane..... | 5.0 | N.D. |
| Dibromochloromethane..... | 2.5 | N.D. |
| 1,2-Dichlorobenzene..... | 2.5 | N.D. |
| 1,3-Dichlorobenzene..... | 2.5 | N.D. |
| 1,4-Dichlorobenzene..... | 2.5 | N.D. |
| Dichlorodifluoromethane..... | 10 | N.D. |
| 1,1-Dichloroethane..... | 2.5 | N.D. |
| 1,2-Dichloroethane..... | 2.5 | 14 |
| 1,1-Dichloroethene..... | 2.5 | N.D. |
| cis-1,2-Dichloroethene..... | 2.5 | N.D. |
| trans-1,2-Dichloroethene..... | 2.5 | N.D. |
| 1,2-Dichloropropane..... | 2.5 | N.D. |
| cis-1,3-Dichloropropene..... | 5.0 | N.D. |
| trans-1,3-Dichloropropene..... | 5.0 | N.D. |
| Methylene chloride..... | 10 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 2.5 | N.D. |
| Tetrachloroethene..... | 2.5 | N.D. |
| 1,1,1-Trichloroethane..... | 2.5 | N.D. |
| 1,1,2-Trichloroethane..... | 2.5 | N.D. |
| Trichloroethene..... | 2.5 | N.D. |
| Trichlorofluoromethane..... | 5.0 | N.D. |
| Vinyl chloride..... | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Scott A. Chierfo
Scott A. Chierfo
Project Manager



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherle D'Andrea

Client Project ID: Mobil #10-HGJ/30-0065-05
Sample Descript: Wastewater, MW-6
Analysis Method: EPA 601
Lab Number: 201-0199

Sampled: Jan 8, 1992
Received: Jan 9, 1992
Analyzed: Jan 15, 1992
Reported: Jan 17, 1992

PURGEABLE HALOCARBONS (EPA 601)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|--------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 0.50 | N.D. |
| Bromoform..... | 1.0 | N.D. |
| Bromomethane..... | 1.0 | N.D. |
| Carbon tetrachloride..... | 0.50 | N.D. |
| Chlorobenzene..... | 0.50 | N.D. |
| Chloroethane..... | 1.0 | N.D. |
| 2-Chloroethylvinyl ether..... | 1.0 | N.D. |
| Chloroform..... | 0.50 | N.D. |
| Chloromethane..... | 1.0 | N.D. |
| Dibromochloromethane..... | 0.50 | N.D. |
| 1,2-Dichlorobenzene..... | 0.50 | N.D. |
| 1,3-Dichlorobenzene..... | 0.50 | N.D. |
| 1,4-Dichlorobenzene..... | 0.50 | N.D. |
| Dichlorodifluoromethane..... | 2.0 | N.D. |
| 1,1-Dichloroethane..... | 0.50 | N.D. |
| 1,2-Dichloroethane..... | 0.50 | 5.4 |
| 1,1-Dichloroethene..... | 0.50 | N.D. |
| cis-1,2-Dichloroethene..... | 0.50 | N.D. |
| trans-1,2-Dichloroethene..... | 0.50 | N.D. |
| 1,2-Dichloropropane..... | 0.50 | N.D. |
| cis-1,3-Dichloropropene..... | 1.0 | N.D. |
| trans-1,3-Dichloropropene..... | 1.0 | N.D. |
| Methylene chloride..... | 2.0 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 0.50 | N.D. |
| Tetrachloroethene..... | 0.50 | N.D. |
| 1,1,1-Trichloroethane..... | 0.50 | N.D. |
| 1,1,2-Trichloroethane..... | 0.50 | N.D. |
| Trichloroethene..... | 0.50 | N.D. |
| Trichlorofluoromethane..... | 1.0 | N.D. |
| Vinyl chloride..... | 1.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Scott A. Chieffo
Project Manager



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: Mobil #10-HGJ/30-0065-05
Sample Descript: Water
Analysis Method: California LUFT Manual, 12/87
First Sample #: 201-0197

Sampled: Jan 8, 1992
Received: Jan 9, 1992
Analyzed: Jan 16, 1992
Reported: Jan 17, 1992

ORGANIC LEAD

| Sample Number | Sample Description | Sample Results mg/kg (ppm) |
|---------------|--------------------|-------------------------------|
| 201-0197 | MW-4 | N.D. |
| 201-0198 | MW-1 | N.D. |
| 201-0199 | MW-6 | N.D. |

Detection Limits:

0.050

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


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Project Manager



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: Mobil #10-HGJ/30-0065-05

QC Sample Group: 2010197-201

Reported: Jan 17, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl-Benzene | Xylenes | Organic Lead |
|------------------------------------|---------------|---------------|---------------|---------------|--------------|
| Method: | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 | LUFT |
| Analyst: | K.N. | K.N. | K.N. | K.N. | K. Anderson |
| Reporting Units: | ug/L | ug/L | ug/L | ug/L | mg/L |
| Date Analyzed: | Jan 9, 1992 | Jan 9, 1992 | Jan 9, 1992 | Jan 9, 1992 | Jan 16, 1992 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank | Matrix Blank | 201-0197 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 20 | 20 | 20 | 60 | 10 |
| Conc. Matrix Spike: | 19 | 19 | 20 | 60 | 11 |
| Matrix Spike % Recovery: | 95 | 95 | 100 | 100 | 110 |
| Conc. Matrix Spike Dup.: | 18 | 18 | 19 | 57 | 13 |
| Matrix Spike Duplicate % Recovery: | 90 | 90 | 95 | 95 | 130 |
| Relative % Difference: | 5.4 | 5.4 | 5.1 | 5.1 | 17 |

Laboratory blank contained the following analytes: None Detected

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Scott A. Chieffo
Scott A. Chieffo
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: Mobil #10-HGJ/30-0065-05

QC Sample Group: 2010197-201

Reported: Jan 17, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloroethane | Trichloro-ethene | Chloro-benzene |
|---------|--------------------|------------------|----------------|
|---------|--------------------|------------------|----------------|

| | | | |
|------------------|--------------|--------------|--------------|
| Method: | EPA 8010 | EPA 8010 | EPA 8010 |
| Analyst: | M. Nguyen | M. Nguyen | M. Nguyen |
| Reporting Units: | ug/L | ug/L | ug/L |
| Date Analyzed: | Jan 15, 1992 | Jan 15, 1992 | Jan 15, 1992 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank |

| | | | |
|------------------------------------|------|------|------|
| Sample Conc.: | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 10 | 10 | 10 |
| Conc. Matrix Spike: | 8.7 | 10 | 10 |
| Matrix Spike % Recovery: | 87 | 100 | 100 |
| Conc. Matrix Spike Dup.: | 8.6 | 10 | 9.7 |
| Matrix Spike Duplicate % Recovery: | 86 | 100 | 97 |
| Relative % Difference: | 1.0 | 0.0 | 3.0 |

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Scott Chieffo
Scott A. Chieffo
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



ALTON GEOSCIENCE
1000 BURNETT ST., #140
CONCORD, CA 94520 (415) 682-1582

CHAIN of CUSTODY RECORD

PAGE 1 of 1

DATE: 1/7/92
RESULTS DUE BY: STAT

PROJECT NUMBER: 30-0065-05

PROJECT NAME AND ADDRESS: Mobil 1024 Mann St., Pleasanton #10-H6T

PROJECT MANAGER: *Cherie De Andrea*

SAMPLER'S SIGNATURE: *Jay Branda*

LABORATORY: *Selvoia*

REMARKS OR SPECIAL INSTRUCTIONS:

*DIRECT BILLING TO MOBIL OIL
ATTN: Ed Hoepfner*

NOTE: PLEASE INDICATE VERBAL REQUESTS FOR ADDITIONAL ANALYSES IN THIS BOX.

| SAMPLE NUMBER | SAMPLE DATE/TIME | LOCATION/ DESCRIPTION | SAMPLE MATERIAL | SAMPLE TYPE: | | NUMBER OF CONTAINERS | SAMPLE PREP. | | | SOIL ANALYSIS | | | | WATER ANALYSIS | | | | | | | |
|---------------|------------------|-----------------------|-------------------------------|--------------|-------|--------------------------|-------------------|------------------|--------------------|------------------|-------------------|------------|-----------------------|----------------|------------------|------------------|-------------------------|-----------------------|----------------|--|--|
| | | | | GRAB | COMP. | | 3510: SOLV. EXTR. | 3810: HEAD SPACE | 5030: PURGE & TRAP | 418.1: TPHC (IR) | 8010: HALOCARBONS | 8020: BTXE | DHS METHOD: TPHC (GC) | 7420: TOTAL Pb | 418.1: TPHC (IR) | 601: HALOCARBONS | 602: BTXE & TPH - G 805 | DHS METHOD: TPHC (GC) | 7421: TOTAL Pb | | |
| | | | | | | | | | | | | | | | | | | | | | |
| MW-4 | 1/7/92/1215 | 2010197AS | 6 HCL Pres 4 un-pres. 7000 | X | | 10 | | | | | | | | | X | X | X | | | | |
| MW-1 | 1/8/92/1400 | 198AS | | | | | | | | | | | | | | | | | | | |
| MW-6 | 1/7/92/1500 | 199AS | | | | | | | | | | | | | | | | | | | |
| MW-3 | 1/8/92/1509 | 200AF | 6 HCL Pres V030 | | | 6 | | | | | | | | | | | | | | | |
| MW-7 | 1/8/92/1518 | 201AB | 2 HCL Pres | | | 2 | | | | | | | | | | | | | | | |
| | | | | | | TOTAL NO. OF CONTAINERS: | | 38 | | | | | | | | | | | | | |

0.6Gauss Lead

RELINQUISHED BY: *Jay Branda*

RECEIVED BY: *Steve Taylor*

DATE/TIME: 1/9/92 10:08

METHOD OF SHIPMENT:

RELINQUISHED BY: *[Signature]*

RECEIVED BY: *[Signature]*

DATE/TIME: 1/9/92 10:38

SHIPPED BY:

RELINQUISHED BY:

RECEIVED BY:

DATE/TIME:

COURIER:



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AUG 29 1991

Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-006S
Matrix Descript: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 108-0357 A-C

Sampled: Aug 6, 1991
Received: Aug 7, 1991
Analyzed: 8/13,16/91
Reported: Aug 21, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. | Benzene | Toluene | Ethyl Benzene | Xylenes |
|---------------|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | Hydrocarbons | | | | |
| | | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) |
| 108-0357 A-C | MW-1 | 2,600 | 310 | 340 | 110 | 340 |

Detection Limits:

600

6.0

6.0

6.0

6.0

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Belinda C. Vega
Belinda C. Vega
Laboratory Director



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| | | |
|----------------------------|-------------------------------------|------------------------|
| Alton Geoscience | Client Project ID: 30-006S | Sampled: Aug 6, 1991 |
| 1000 Burnett St., #140 | Matrix Descript: Water | Received: Aug 7, 1991 |
| Concord, CA 94520 | Analysis Method: EPA 5030/8015/8020 | Analyzed: 8/13,16/91 |
| Attention: Cherle D'Andrea | First Sample #: 108-0358 A-C | Reported: Aug 21, 1991 |

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. | Benzene | Toluene | Ethyl Benzene | Xylenes |
|---------------|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | Hydrocarbons | | | | |
| | | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) |
| 108-0358 A-C | MW-6 | 1,600 | 220 | 10 | 5.2 | 14 |

Detection Limits:

60

0.60

0.60

0.60

0.60

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Belinda C. Vega
Belinda C. Vega
Laboratory Director

1080357.ALG <2>



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-006S
Matrix Descript: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 108-0359 A-C

Sampled: Aug 6, 1991
Received: Aug 7, 1991
Analyzed: 8/13,16/91
Reported: Aug 21, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. | Benzene | Toluene | Ethyl Benzene | Xylenes |
|---------------|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | Hydrocarbons | | | | |
| | | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) |
| 108-0359 A-C | MW-4 | 8,900 | 320 | 420 | 220 | 650 |

Detection Limits:

300

3.0

3.0

3.0

3.0

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Belinda C. Vega
Laboratory Director



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-006S
Matrix Descript: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 108-0360 A-C

Sampled: Aug 6, 1991
Received: Aug 7, 1991
Analyzed: 8/13,16/91
Reported: Aug 21, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. | Ethyl | | | |
|---------------|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | Hydrocarbons | Benzene | Toluene | Benzene | Xylenes |
| | | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) | $\mu\text{g/L}$ (ppb) |
| 108-0360 A-C | MW-2 | 160,000 | 16,000 | 25,000 | 4,300 | 19,000 |

Detection Limits:

60,000

600

600

600

600

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Belinda C. Vega
Laboratory Director



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-006S

QC Sample Group: 1080357-60

Reported: Aug 21, 1991

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | | Ethyl Benzene | | Xylenes | | | | | | | | | | | | | | | |
|------------------------------------|--------------|-----------|------------------|----------------|--------------|--------------|-----------|------------------|----------------|--------------|--------------|-----------|------|--------------|-----------|--------------|-----------|------|--------------|-----------|
| | Method: | Analyst: | Reporting Units: | Date Analyzed: | QC Sample #: | Method: | Analyst: | Reporting Units: | Date Analyzed: | QC Sample #: | | | | | | | | | | |
| | EPA8015/8020 | R.H./J.F. | µg/L | Aug 13, 1991 | BLK081391 | EPA8015/8020 | R.H./J.F. | µg/L | Aug 13, 1991 | BLK081391 | EPA8015/8020 | R.H./J.F. | µg/L | Aug 13, 1991 | BLK081391 | EPA8015/8020 | R.H./J.F. | µg/L | Aug 13, 1991 | BLK081391 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 20 | 20 | 20 | 20 | 60 | 20 | 20 | 20 | 20 | 60 | 20 | 20 | 20 | 20 | 60 | 20 | 20 | 20 | 20 | 60 |
| Conc. Matrix Spike: | 20 | 20 | 20 | 21 | 62 | 20 | 20 | 20 | 21 | 62 | 20 | 20 | 20 | 21 | 62 | 20 | 20 | 20 | 21 | 62 |
| Matrix Spike % Recovery: | 100 | 100 | 100 | 110 | 100 | 100 | 100 | 110 | 110 | 100 | 100 | 100 | 110 | 110 | 100 | 100 | 100 | 110 | 110 | 100 |
| Conc. Matrix Spike Dup.: | 20 | 20 | 20 | 21 | 64 | 20 | 20 | 20 | 21 | 64 | 20 | 20 | 20 | 21 | 64 | 20 | 20 | 20 | 21 | 64 |
| Matrix Spike Duplicate % Recovery: | 100 | 100 | 100 | 110 | 110 | 100 | 100 | 110 | 110 | 100 | 100 | 100 | 110 | 110 | 100 | 100 | 100 | 110 | 110 | 100 |
| Relative % Difference: | 0 | 0 | 0 | 0 | 3.2 | 0 | 0 | 0 | 0 | 3.2 | 0 | 0 | 0 | 0 | 3.2 | 0 | 0 | 0 | 0 | 3.2 |

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Belinda C. Vega
Belinda C. Vega
Laboratory Director

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520

Client Project ID: 30-006S

Attention: Cherle D'Andrea

QC Sample Group: 1080357-60

Reported: Aug 21, 1991

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl Benzene | Xylenes |
|---------|---------|---------|---------------|---------|
|---------|---------|---------|---------------|---------|

| | | | | |
|------------------|--------------|--------------|--------------|--------------|
| Method: | EPA8015/8020 | EPA8015/8020 | EPA8015/8020 | EPA8015/8020 |
| Analyst: | R.H./J.F. | R.H./J.F. | R.H./J.F. | R.H./J.F. |
| Reporting Units: | µg/L | µg/L | µg/L | µg/L |
| Date Analyzed: | Aug 16, 1991 | Aug 16, 1991 | Aug 16, 1991 | Aug 16, 1991 |
| QC Sample #: | BLK081691 | BLK081691 | BLK081691 | BLK081691 |

| | | | | |
|------------------------------------|------|------|------|------|
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 20 | 20 | 20 | 60 |
| Conc. Matrix Spike: | 23 | 22 | 24 | 78 |
| Matrix Spike % Recovery: | 120 | 110 | 120 | 130 |
| Conc. Matrix Spike Dup.: | 22 | 21 | 23 | 77 |
| Matrix Spike Duplicate % Recovery: | 110 | 110 | 120 | 130 |
| Relative % Difference: | 4.4 | 4.7 | 4.3 | 1.3 |

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Belinda C. Vega
Belinda C. Vega
Laboratory Director

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-006S
Sample Descript: Water
Analysis for: Total Lead (EPA 7421)
First Sample #: 108-0357 G-H

Sampled: Aug 6, 1991
Received: Aug 7, 1991
Extracted: Aug 8, 1991
Analyzed: Aug 12, 1991
Reported: Aug 21, 1991

LABORATORY ANALYSIS FOR: Total Lead (EPA 7421)

| Sample Number | Sample Description | Detection Limit mg/L | Sample Result mg/L |
|---------------|--------------------|----------------------|--------------------|
| 108-0357 G-H | MW-1 | 0.0050 | N.D. |
| 108-0358 G | MW-6 | 0.0050 | N.D. |
| 108-0359 G-H | MW-4 | 0.0050 | N.D. |
| 108-0360 G-H | MW-2 | 0.0050 | 0.33 |

Analytes reported as N.D. were not present above the stated limit of detection.

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Belinda C. Vega
Laboratory Director

1080357.ALG <11>



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-006S

QC Sample Group: 1080357-60

Reported: Aug 21, 1991

QUALITY CONTROL DATA REPORT

ANALYTE

Lead

Method: EPA 7421
Analyst: N. Herrera
Reporting Units: mg/L
Date Analyzed: Aug 12, 1991
QC Sample #: 108-0157

Sample Conc.: N.D.

Spike Conc.
Added: 0.10

Conc. Matrix
Spike: 0.086

Matrix Spike
% Recovery: 86

Conc. Matrix
Spike Dup.: 0.087

Matrix Spike
Duplicate
% Recovery: 87

Relative
% Difference: 1.2

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Belinda C. Vega
Laboratory Director

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-006S
Sample Descript: Water, MW-1
Analysis Method: EPA 5030/8010
Lab Number: 108-0357

Sampled: Aug 6, 1991
Received: Aug 7, 1991
Analyzed: 8/19-20/91
Reported: Aug 21, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|--------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 25 | N.D. |
| Bromoform..... | 50 | N.D. |
| Bromomethane..... | 50 | N.D. |
| Carbon tetrachloride..... | 25 | N.D. |
| Chlorobenzene..... | 25 | N.D. |
| Chloroethane..... | 50 | N.D. |
| 2-Chloroethylvinyl ether..... | 50 | N.D. |
| Chloroform..... | 25 | N.D. |
| Chloromethane..... | 50 | N.D. |
| Dibromochloromethane..... | 25 | N.D. |
| 1,2-Dichlorobenzene..... | 25 | N.D. |
| 1,3-Dichlorobenzene..... | 25 | N.D. |
| 1,4-Dichlorobenzene..... | 25 | N.D. |
| 1,1-Dichloroethane..... | 25 | N.D. |
| 1,2-Dichloroethane..... | 25 | N.D. |
| 1,1-Dichloroethene..... | 25 | N.D. |
| cis-1,2-Dichloroethene..... | 25 | N.D. |
| trans-1,2-Dichloroethene..... | 25 | N.D. |
| 1,2-Dichloropropane..... | 25 | N.D. |
| cis-1,3-Dichloropropene..... | 50 | N.D. |
| trans-1,3-Dichloropropene..... | 50 | N.D. |
| Methylene chloride..... | 100 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 25 | N.D. |
| Tetrachloroethene..... | 25 | N.D. |
| 1,1,1-Trichloroethane..... | 25 | N.D. |
| 1,1,2-Trichloroethane..... | 25 | N.D. |
| Trichloroethene..... | 25 | N.D. |
| Trichlorofluoromethane..... | 50 | N.D. |
| Vinyl chloride..... | 50 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Belinda C. Vega
Laboratory Director



SEQUOIA ANALYTICAL

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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-006S
Sample Descript: Water, MW-6
Analysis Method: EPA 5030/8010
Lab Number: 108-0358

Sampled: Aug 6, 1991
Received: Aug 7, 1991
Analyzed: 8/19-20/91
Reported: Aug 21, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|--------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 5.0 | N.D. |
| Bromoform..... | 10 | N.D. |
| Bromomethane..... | 10 | N.D. |
| Carbon tetrachloride..... | 5.0 | N.D. |
| Chlorobenzene..... | 5.0 | N.D. |
| Chloroethane..... | 10 | N.D. |
| 2-Chloroethylvinyl ether..... | 10 | N.D. |
| Chloroform..... | 5.0 | N.D. |
| Chloromethane..... | 10 | N.D. |
| Dibromochloromethane..... | 5.0 | N.D. |
| 1,2-Dichlorobenzene..... | 5.0 | N.D. |
| 1,3-Dichlorobenzene..... | 5.0 | N.D. |
| 1,4-Dichlorobenzene..... | 5.0 | N.D. |
| 1,1-Dichloroethane..... | 5.0 | N.D. |
| 1,2-Dichloroethane..... | 5.0 | 8.3 |
| 1,1-Dichloroethene..... | 5.0 | N.D. |
| cis-1,2-Dichloroethene..... | 5.0 | N.D. |
| trans-1,2-Dichloroethene..... | 5.0 | N.D. |
| 1,2-Dichloropropane..... | 5.0 | N.D. |
| cis-1,3-Dichloropropene..... | 10 | N.D. |
| trans-1,3-Dichloropropene..... | 10 | N.D. |
| Methylene chloride..... | 20 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 5.0 | N.D. |
| Tetrachloroethene..... | 5.0 | N.D. |
| 1,1,1-Trichloroethane..... | 5.0 | N.D. |
| 1,1,2-Trichloroethane..... | 5.0 | N.D. |
| Trichloroethene..... | 5.0 | N.D. |
| Trichlorofluoromethane..... | 10 | N.D. |
| Vinyl chloride..... | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Alton Geoscience
1000 Burnett St., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-006S
Sample Descript: Water, MW-4
Analysis Method: EPA 5030/8010
Lab Number: 108-0359

Sampled: Aug 6, 1991
Received: Aug 7, 1991
Analyzed: 8/19-20/91
Reported: Aug 21, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|--------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 20 | N.D. |
| Bromoform..... | 40 | N.D. |
| Bromomethane..... | 40 | N.D. |
| Carbon tetrachloride..... | 20 | N.D. |
| Chlorobenzene..... | 20 | N.D. |
| Chloroethane..... | 40 | N.D. |
| 2-Chloroethylvinyl ether..... | 40 | N.D. |
| Chloroform..... | 20 | N.D. |
| Chloromethane..... | 40 | N.D. |
| Dibromochloromethane..... | 20 | N.D. |
| 1,2-Dichlorobenzene..... | 20 | N.D. |
| 1,3-Dichlorobenzene..... | 20 | N.D. |
| 1,4-Dichlorobenzene..... | 20 | N.D. |
| 1,1-Dichloroethane..... | 20 | N.D. |
| 1,2-Dichloroethane..... | 20 | N.D. |
| 1,1-Dichloroethene..... | 20 | N.D. |
| cis-1,2-Dichloroethene..... | 20 | N.D. |
| trans-1,2-Dichloroethene..... | 20 | N.D. |
| 1,2-Dichloropropane..... | 20 | N.D. |
| cis-1,3-Dichloropropene..... | 40 | N.D. |
| trans-1,3-Dichloropropene..... | 40 | N.D. |
| Methylene chloride..... | 80 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 20 | N.D. |
| Tetrachloroethene..... | 20 | N.D. |
| 1,1,1-Trichloroethane..... | 20 | N.D. |
| 1,1,2-Trichloroethane..... | 20 | N.D. |
| Trichloroethene..... | 20 | N.D. |
| Trichlorofluoromethane..... | 40 | N.D. |
| Vinyl chloride..... | 40 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: 30-006S
Sample Descript: Water, MW-2
Analysis Method: EPA 5030/8010
Lab Number: 108-0360

Sampled: Aug 6, 1991
Received: Aug 7, 1991
Analyzed: 8/19-20/91
Reported: Aug 21, 1991

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/L | Sample Results µg/L |
|--------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 200 | N.D. |
| Bromoform..... | 400 | N.D. |
| Bromomethane..... | 400 | N.D. |
| Carbon tetrachloride..... | 200 | N.D. |
| Chlorobenzene..... | 200 | N.D. |
| Chloroethane..... | 400 | N.D. |
| 2-Chloroethylvinyl ether..... | 400 | N.D. |
| Chloroform..... | 200 | N.D. |
| Chloromethane..... | 400 | N.D. |
| Dibromochloromethane..... | 200 | N.D. |
| 1,2-Dichlorobenzene..... | 200 | N.D. |
| 1,3-Dichlorobenzene..... | 200 | N.D. |
| 1,4-Dichlorobenzene..... | 200 | N.D. |
| 1,1-Dichloroethane..... | 200 | N.D. |
| 1,2-Dichloroethane..... | 200 | N.D. |
| 1,1-Dichloroethene..... | 200 | N.D. |
| cis-1,2-Dichloroethene..... | 200 | N.D. |
| trans-1,2-Dichloroethene..... | 200 | N.D. |
| 1,2-Dichloropropane..... | 200 | N.D. |
| cis-1,3-Dichloropropene..... | 400 | N.D. |
| trans-1,3-Dichloropropene..... | 400 | N.D. |
| Methylene chloride..... | 800 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 200 | N.D. |
| Tetrachloroethene..... | 200 | N.D. |
| 1,1,1-Trichloroethane..... | 200 | N.D. |
| 1,1,2-Trichloroethane..... | 200 | N.D. |
| Trichloroethene..... | 200 | N.D. |
| Trichlorofluoromethane..... | 400 | N.D. |
| Vinyl chloride..... | 400 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Attention: Cherie D'Andrea

Client Project ID: 30-006S

QC Sample Group: 1080357-60

Reported: Aug 21, 1991

QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloroethene | Trichloroethene | Chloro- benzene | Benzene | Toluene | Chloro- benzene (PID) |
|------------------------------------------|--------------------|-----------------|--------------------|--------------|--------------|--------------------------|
| Method: | EPA 8010 | EPA 8010 | EPA 8010 | EPA 8010 | EPA 8010 | EPA 8010 |
| Analyst: | S.L. | S.L. | S.L. | S.L. | S.L. | S.L. |
| Reporting Units: | ppb | ppb | ppb | ppb | ppb | ppb |
| Date Analyzed: | Aug 20, 1991 | Aug 20, 1991 | Aug 20, 1991 | Aug 20, 1991 | Aug 20, 1991 | Aug 20, 1991 |
| QC Sample #: | 108-0645 | 108-0645 | 108-0645 | 108-0645 | 108-0645 | 108-0645 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 10 | 10 | 10 | 10 | 10 | 10 |
| Conc. Matrix Spike: | 8.6 | 11 | 11 | 10 | 9.0 | 9.3 |
| Matrix Spike % Recovery: | 86 | 110 | 110 | 100 | 90 | 93 |
| Conc. Matrix Spike Dup.: | 7.0 | 9.2 | 11 | 9.7 | 8.7 | 9.2 |
| Matrix Spike Duplicate % Recovery: | 70 | 92 | 110 | 97 | 87 | 92 |
| Relative % Difference: | 20 | 18 | 0 | 3.0 | 3.4 | 1.1 |

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| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |

1080357.ALG <17>



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Attention: Cherle D' Andrea

Client Project ID: Mobil #04-H6J / 30-0065-05
Matrix Descript: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 205-0094

Sampled: Apr 30, 1992
Received: May 1, 1992
Analyzed: 5/6, 5/7/92
Reported: May 11, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons ug/L (ppb) | Benzene ug/L (ppb) | Toluene ug/L (ppb) | Ethyl Benzene ug/L (ppb) | Xylenes ug/L (ppb) |
|---------------|--------------------|--------------------------------------------|-----------------------|-----------------------|-----------------------------|-----------------------|
| 205-0094 | MW-2 | 71,000 | 9,200 | 19,000 | 3,700 | 15,000 |

| | | | | | |
|--------------------------|--------------|-----------|-----------|-----------|-----------|
| Detection Limits: | 3,000 | 30 | 30 | 30 | 30 |
|--------------------------|--------------|-----------|-----------|-----------|-----------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Attention: Cherie D' Andrea

Client Project ID: Mobil#04-H6J / 30-0065-05
Matrix Descript: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 205-0095

Sampled: Apr 30, 1992
Received: May 1, 1992
Analyzed: 5/6, 5/7/92
Reported: May 11, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. | Benzene | Toluene | Ethyl | Xylenes |
|---------------|--------------------|-----------------|---------------|---------------|---------------|---------------|
| | | Hydrocarbons | | | Benzene | |
| | | ug/L (ppb) | ug/L (ppb) | ug/L (ppb) | ug/L (ppb) | ug/L (ppb) |
| 205-0095 | MW-1 | 1,300 | 150 | 120 | 12 | 160 |

Detection Limits:

60

0.60

0.60

0.60

0.60

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Client Project ID: Mobil#04-H6J / 30-0065-05
Matrix Descript: Water
Analysis Method: EPA 5030/8015/8020
First Sample #: 205-0097

Sampled: Apr 30, 1992
Received: May 1, 1992
Analyzed: 5/6, 5/7/92
Reported: May 11, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. | Ethyl | | | |
|---------------|--------------------|-----------------|---------------|---------------|---------------|---------------|
| | | Hydrocarbons | Benzene | Toluene | Benzene | Xylenes |
| | | ug/L (ppb) | ug/L (ppb) | ug/L (ppb) | ug/L (ppb) | ug/L (ppb) |
| 205-0097 | MW-9 | 5,600 | 1,000 | 120 | 410 | 350 |

Detection Limits:

300

3.0

3.0

3.0

3.0

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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2050093.ALT <4>



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Attention: Cherie D' Andrea

Client Project ID: Mobil#04-H6J / 30-0065-05
Sample Descript: Water, MW-6
Analysis Method: EPA 5030/8010
Lab Number: 205-0093

Sampled: Apr 30, 1992
Received: May 1, 1992
Analyzed: May 7, 1992
Reported: May 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|--------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 0.50 | N.D. |
| Bromoform..... | 0.50 | N.D. |
| Bromomethane..... | 0.50 | N.D. |
| Carbon tetrachloride..... | 0.50 | N.D. |
| Chlorobenzene..... | 0.50 | N.D. |
| Chloroethane..... | 0.50 | N.D. |
| 2-Chloroethylvinyl ether..... | 0.50 | N.D. |
| Chloroform..... | 0.50 | N.D. |
| Chloromethane..... | 0.50 | N.D. |
| Dibromochloromethane..... | 0.50 | N.D. |
| 1,3-Dichlorobenzene..... | 0.50 | N.D. |
| 1,4-Dichlorobenzene..... | 0.50 | N.D. |
| 1,2-Dichlorobenzene..... | 0.50 | N.D. |
| 1,1-Dichloroethane..... | 0.50 | N.D. |
| 1,2-Dichloroethane..... | 0.50 | 7.0 |
| 1,1-Dichloroethene..... | 0.50 | N.D. |
| cis-1,2-Dichloroethene..... | 0.50 | N.D. |
| trans-1,2-Dichloroethene..... | 0.50 | N.D. |
| 1,2-Dichloropropane..... | 0.50 | N.D. |
| cis-1,3-Dichloropropene..... | 0.50 | N.D. |
| trans-1,3-Dichloropropene..... | 0.50 | N.D. |
| Methylene chloride..... | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 0.50 | N.D. |
| Tetrachloroethene..... | 0.50 | N.D. |
| 1,1,1-Trichloroethane..... | 0.50 | N.D. |
| 1,1,2-Trichloroethane..... | 0.50 | N.D. |
| Trichloroethene..... | 0.50 | N.D. |
| Trichlorofluoromethane..... | 0.50 | N.D. |
| Vinyl chloride..... | 0.50 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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Attention: Charle D' Andrea

Client Project ID: Mobil#04-H6J / 30-0065-05
Sample Descript: Water, MW-2
Analysis Method: EPA 5030/8010
Lab Number: 205-0094

Sampled: Apr 30, 1992
Received: May 1, 1992
Analyzed: May 8, 1992
Reported: May 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|--------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 50 | N.D. |
| Bromoform..... | 50 | N.D. |
| Bromomethane..... | 50 | N.D. |
| Carbon tetrachloride..... | 50 | N.D. |
| Chlorobenzene..... | 50 | N.D. |
| Chloroethane..... | 50 | N.D. |
| 2-Chloroethylvinyl ether..... | 50 | N.D. |
| Chloroform..... | 50 | N.D. |
| Chloromethane..... | 50 | N.D. |
| Dibromochloromethane..... | 50 | N.D. |
| 1,3-Dichlorobenzene..... | 50 | N.D. |
| 1,4-Dichlorobenzene..... | 50 | N.D. |
| 1,2-Dichlorobenzene..... | 50 | N.D. |
| 1,1-Dichloroethane..... | 50 | N.D. |
| 1,2-Dichloroethane..... | 50 | 420 |
| 1,1-Dichloroethene..... | 50 | N.D. |
| cis-1,2-Dichloroethene..... | 50 | N.D. |
| trans-1,2-Dichloroethene..... | 50 | N.D. |
| 1,2-Dichloropropane..... | 50 | N.D. |
| cis-1,3-Dichloropropene..... | 50 | N.D. |
| trans-1,3-Dichloropropene..... | 50 | N.D. |
| Methylene chloride..... | 500 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 50 | N.D. |
| Tetrachloroethene..... | 50 | N.D. |
| 1,1,1-Trichloroethane..... | 50 | N.D. |
| 1,1,2-Trichloroethane..... | 50 | N.D. |
| Trichloroethene..... | 50 | N.D. |
| Trichlorofluoromethane..... | 50 | N.D. |
| Vinyl chloride..... | 50 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Client Project ID: Mobil#04-H6J / 30-0065-05
Sample Descript: Water, MW-1
Analysis Method: EPA 5030/8010
Lab Number: 205-0095

Sampled: Apr 30, 1992
Received: May 1, 1992
Analyzed: May 8, 1992
Reported: May 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|--------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 2.5 | N.D. |
| Bromoform..... | 2.5 | N.D. |
| Bromomethane..... | 2.5 | N.D. |
| Carbon tetrachloride..... | 2.5 | N.D. |
| Chlorobenzene..... | 2.5 | N.D. |
| Chloroethane..... | 2.5 | N.D. |
| 2-Chloroethylvinyl ether..... | 2.5 | N.D. |
| Chloroform..... | 2.5 | N.D. |
| Chloromethane..... | 2.5 | N.D. |
| Dibromochloromethane..... | 2.5 | N.D. |
| 1,3-Dichlorobenzene..... | 2.5 | N.D. |
| 1,4-Dichlorobenzene..... | 2.5 | N.D. |
| 1,2-Dichlorobenzene..... | 2.5 | N.D. |
| 1,1-Dichloroethane..... | 2.5 | N.D. |
| 1,2-Dichloroethane..... | 2.5 | 4.3 |
| 1,1-Dichloroethene..... | 2.5 | N.D. |
| cis-1,2-Dichloroethene..... | 2.5 | N.D. |
| trans-1,2-Dichloroethene..... | 2.5 | N.D. |
| 1,2-Dichloropropane..... | 2.5 | N.D. |
| cis-1,3-Dichloropropene..... | 2.5 | N.D. |
| trans-1,3-Dichloropropene..... | 2.5 | N.D. |
| Methylene chloride..... | 2.5 | N.D. |
| 1,1,1,2-Tetrachloroethane..... | 2.5 | N.D. |
| Tetrachloroethene..... | 2.5 | N.D. |
| 1,1,1-Trichloroethane..... | 2.5 | N.D. |
| 1,1,2-Trichloroethane..... | 2.5 | N.D. |
| Trichloroethene..... | 2.5 | N.D. |
| Trichlorofluoromethane..... | 2.5 | N.D. |
| Vinyl chloride..... | 2.5 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Attention: Cherle D' Andrea

Client Project ID: Mobil #04-H6J / 30-0065-05
Sample Descript: Water, MW-4
Analysis Method: EPA 5030/8010
Lab Number: 205-0096

Sampled: Apr 30, 1992
Received: May 1, 1992
Analyzed: May 8, 1992
Reported: May 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|--------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 50 | N.D. |
| Bromoform..... | 50 | N.D. |
| Bromomethane..... | 50 | N.D. |
| Carbon tetrachloride..... | 50 | N.D. |
| Chlorobenzene..... | 50 | N.D. |
| Chloroethane..... | 50 | N.D. |
| 2-Chloroethylvinyl ether..... | 50 | N.D. |
| Chloroform..... | 50 | N.D. |
| Chloromethane..... | 50 | N.D. |
| Dibromochloromethane..... | 50 | N.D. |
| 1,3-Dichlorobenzene..... | 50 | N.D. |
| 1,4-Dichlorobenzene..... | 50 | N.D. |
| 1,2-Dichlorobenzene..... | 50 | N.D. |
| 1,1-Dichloroethane..... | 50 | N.D. |
| 1,2-Dichloroethane..... | 50 | N.D. |
| 1,1-Dichloroethene..... | 50 | N.D. |
| cis-1,2-Dichloroethene..... | 50 | N.D. |
| trans-1,2-Dichloroethene..... | 50 | N.D. |
| 1,2-Dichloropropane..... | 50 | N.D. |
| cis-1,3-Dichloropropene..... | 50 | N.D. |
| trans-1,3-Dichloropropene..... | 50 | N.D. |
| Methylene chloride..... | 500 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 50 | N.D. |
| Tetrachloroethene..... | 50 | N.D. |
| 1,1,1-Trichloroethane..... | 50 | N.D. |
| 1,1,2-Trichloroethane..... | 50 | N.D. |
| Trichloroethene..... | 50 | N.D. |
| Trichlorofluoromethane..... | 50 | N.D. |
| Vinyl chloride..... | 50 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Pleasanton, CA 94588
Attention: Cherie D' Andrea

Client Project ID: Mobil#04-H6J / 30-0065-05
Sample Descript: Water, MW-9
Analysis Method: EPA 5030/8010
Lab Number: 205-0097

Sampled: Apr 30, 1992
Received: May 1, 1992
Analyzed: May 7, 1992
Reported: May 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit ug/L | Sample Results ug/L |
|--------------------------------|-------------------------|------------------------|
| Bromodichloromethane..... | 20 | N.D. |
| Bromoform..... | 20 | N.D. |
| Bromomethane..... | 20 | N.D. |
| Carbon tetrachloride..... | 20 | N.D. |
| Chlorobenzene..... | 20 | N.D. |
| Chloroethane..... | 20 | N.D. |
| 2-Chloroethylvinyl ether..... | 20 | N.D. |
| Chloroform..... | 20 | N.D. |
| Chloromethane..... | 20 | N.D. |
| Dibromochloromethane..... | 20 | N.D. |
| 1,3-Dichlorobenzene..... | 20 | N.D. |
| 1,4-Dichlorobenzene..... | 20 | N.D. |
| 1,2-Dichlorobenzene..... | 20 | N.D. |
| 1,1-Dichloroethane..... | 20 | N.D. |
| 1,2-Dichloroethane..... | 20 | N.D. |
| 1,1-Dichloroethene..... | 20 | N.D. |
| cis-1,2-Dichloroethene..... | 20 | N.D. |
| trans-1,2-Dichloroethene..... | 20 | N.D. |
| 1,2-Dichloropropane..... | 20 | N.D. |
| cis-1,3-Dichloropropene..... | 20 | N.D. |
| trans-1,3-Dichloropropene..... | 20 | N.D. |
| Methylene chloride..... | 200 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 20 | N.D. |
| Tetrachloroethene..... | 20 | N.D. |
| 1,1,1-Trichloroethane..... | 20 | N.D. |
| 1,1,2-Trichloroethane..... | 20 | N.D. |
| Trichloroethene..... | 20 | N.D. |
| Trichlorofluoromethane..... | 20 | N.D. |
| Vinyl chloride..... | 20 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Scott A. Chieffo
Project Manager



SEQUOIA ANALYTICAL

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Alton Geoscience
5870 Stoneridge Drive, Suite 6
Pleasanton, CA 94588
Attention: Cherie D' Andrea

Client Project ID: Mobil#04-H6J / 30-0065-05

QC Sample Group: 2050093-0097

Reported: May 11, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl-Benzene | Xylenes |
|------------------------------------|--------------|---------------|---------------|---------------|
| | Method: | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 |
| Analyst: | K.E. | K.E. | K.E. | K.E. |
| Reporting Units: | ug/L | ug/L | ug/L | ug/L |
| Date Analyzed: | May 6, 1992 | May 6, 1992 | May 6, 1992 | May 6, 1992 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank | Matrix Blank |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 20 | 20 | 20 | 60 |
| Conc. Matrix Spike: | 21 | 21 | 22 | 68 |
| Matrix Spike % Recovery: | 105 | 105 | 110 | 113 |
| Conc. Matrix Spike Dup.: | 20 | 20 | 20 | 62 |
| Matrix Spike Duplicate % Recovery: | 100 | 100 | 100 | 103 |
| Relative % Difference: | 4.9 | 4.9 | 9.5 | 9.2 |

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Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Attention: Cherle D' Andrea

Client Project ID: Mobil#04-H6J / 30-0065-05

QC Sample Group: 2050093-0097

Reported: May 11, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl-Benzene | Xylenes |
|------------------------------------|--------------|--------------|---------------|--------------|
| | | EPA | EPA | EPA |
| Method: | 8015/8020 | 8015/8020 | 8015/8020 | 8015/8020 |
| Analyst: | J.F. | J.F. | J.F. | J.F. |
| Reporting Units: | ug/L | ug/L | ug/L | ug/L |
| Date Analyzed: | May 7, 1992 | May 7, 1992 | May 7, 1992 | May 7, 1992 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank | Matrix Blank |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 20 | 20 | 20 | 60 |
| Conc. Matrix Spike: | 22 | 23 | 20 | 63 |
| Matrix Spike % Recovery: | 110 | 115 | 100 | 105 |
| Conc. Matrix Spike Dup.: | 20 | 23 | 22 | 65 |
| Matrix Spike Duplicate % Recovery: | 100 | 115 | 110 | 108 |
| Relative % Difference: | 9.5 | 0.0 | 9.5 | 3.1 |

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Scott A. Chieffo
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Attention: Cherie D' Andrea

Client Project ID: Mobil#04-H6J / 30-0065-05

QC Sample Group: 2050093-0097

Reported: May 11, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloroethene | Trichloro-ethene | Chloro-benzene |
|------------------------------------|--------------------|------------------|----------------|
| Method: | EPA 8010 | EPA 8010 | EPA 8010 |
| Analyst: | M. Nguyen | M. Nguyen | M. Nguyen |
| Reporting Units: | ug/L | ug/L | ug/L |
| Date Analyzed: | May 7, 1992 | May 7, 1992 | May 7, 1992 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank |
| Sample Conc.: | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 10 | 10 | 10 |
| Conc. Matrix Spike: | 8.0 | 9.8 | 8.5 |
| Matrix Spike % Recovery: | 80 | 98 | 85 |
| Conc. Matrix Spike Dup.: | 8.0 | 12 | 8.6 |
| Matrix Spike Duplicate % Recovery: | 80 | 120 | 86 |
| Relative % Difference: | 0.0 | 20 | 1.0 |

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

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Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Attention: Cherle D' Andrea

Client Project ID: Mobil#04-H6J / 30-0065-05

QC Sample Group: 2050093-0097

Reported: May 11, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloroethene | Trichloro-ethene | Chloro-benzene |
|---------|--------------------|------------------|----------------|
|---------|--------------------|------------------|----------------|

| | | | |
|------------------|--------------|--------------|--------------|
| Method: | EPA 8010 | EPA 8010 | EPA 8010 |
| Analyst: | M. Nguyen | M. Nguyen | M. Nguyen |
| Reporting Units: | ug/L | ug/L | ug/L |
| Date Analyzed: | May 8, 1992 | May 8, 1992 | May 8, 1992 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank |

| | | | |
|------------------------------------|------|------|------|
| Sample Conc.: | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 10 | 10 | 10 |
| Conc. Matrix Spike: | 8.2 | 10 | 8.9 |
| Matrix Spike % Recovery: | 82 | 100 | 89 |
| Conc. Matrix Spike Dup.: | 7.8 | 10 | 8.8 |
| Matrix Spike Duplicate % Recovery: | 78 | 100 | 88 |
| Relative % Difference: | 5.0 | 0.0 | 1.0 |

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Scott A. Chieffo
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |

Mobil Chain of Custody



**SEQUOIA
ANALYTICAL**

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Concord:
Sacramento:

(510) 962-1100
(916) 921-1100

| | | |
|-----------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|
| Consulting Firm Name: ALTON GEOSCIENCE | Site SS #: Former # 04-H6J | Phase of Work: |
| Address: 5870 Stoneridge Dr., Ste. 6 | Mobil Site Address: 1024 Main St. Pleasanton | <input type="checkbox"/> A. Emrg. Response |
| City: Pleasanton State: CA Zip Code: 94588 | Mobil Engineer: Ed Hoepker | <input type="checkbox"/> B. Site Assessment |
| Telephone: 510-734-8134 FAX #: 510-734-8420 | Consultant Project #: 30-0065-05 | <input type="checkbox"/> C. Remediation |
| Project Contact: Cherie D'Andrea Sampled by: Andy Block | Sequoia's Work Order Release #: — | <input checked="" type="checkbox"/> D. Monitoring |
| | | <input type="checkbox"/> E. OGC/Claims |

Turnaround Time: Standard TAT (5 - 10 Working Days)
 Other _____

Analyses Requested

| Client Sample I.D. | Date/Time Sampled | Matrix Description | # of Containers | Sequoia's Sample # | Analyses Requested | | | | | Comments |
|--------------------|-------------------|--------------------|-----------------|--------------------|--------------------|------------|------------------------|------------------------|-----------|----------|
| | | | | | TPH Gas/BTEX | TPH Diesel | TPPH by I.R. EPA #18.1 | Oil & Grease EPA #13.2 | HVOC B010 | |
| 1. MW-6 | 4/30/92/1545 | W | 6 | 2050093AF | X | | | X | | |
| 2. MW-2 | 4/30/92/1355 | W | 6 | 94AF | X | | | X | | |
| 3. MW-1 | 4/30/92/1405 | W | 6 | 95AF | X | | | X | | |
| 4. MW-4 | 4/30/92/1525 | W | 6 | 96AF | X | | | X | | |
| 5. MW-9 | 4/30/92/1610 | W | 6 | 97AF | X | | | X | | |
| 6. | | | | | | | | | | |
| 7. | | | | | | | | | | |
| 8. | | | | | | | | | | |
| 9. | | | | | | | | | | |
| 10. | | | | | | | | | | |

| | | | | | |
|-------------------------------------|---------------------|----------------------|---------------------------------|---------------------|----------------------|
| Relinquished By: <i>[Signature]</i> | Date: 5-1-92 | Time: 1:40 PM | Received By: <i>[Signature]</i> | Date: 5-1-92 | Time: 1:40 PM |
| Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____ | Date: _____ | Time: _____ |
| Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____ | Date: _____ | Time: _____ |



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FEB 13 1992

Alton Geoscience
5870 Stoneridge Drive, Suite 6
Pleasanton, CA 94588
Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Matrix Descript: Soil
Analysis Method: EPA 5030/8015/8020
First Sample #: 202-0009

Sampled: 1/30-1/31/92
Received: Feb 3, 1992
Analyzed: Feb 4, 1992
Reported: Feb 11, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|---------------------------------------------|------------------------|------------------------|------------------------------|------------------------|
| 202-0009 | SB-15(11.5-12) | N.D. | N.D. | 0.011 | N.D. | 0.014 |
| 202-0010 | SB-15(17.5-18) | N.D. | N.D. | N.D. | N.D. | N.D. |
| 202-0014 | SB-14(19.5-20) ✓ | N.D. | N.D. | N.D. | N.D. | N.D. |
| 202-0015 | SB-14(29.5-30) ✓ | N.D. | N.D. | N.D. | N.D. | N.D. |
| 202-0016 | SB-14(34.5-35) ✓ | N.D. | N.D. | N.D. | N.D. | N.D. |
| 202-0017 | SB-14(39.5-40) | N.D. | N.D. | N.D. | N.D. | N.D. |

| | | | | | |
|-------------------|-----|--------|--------|--------|--------|
| Detection Limits: | 1.0 | 0.0050 | 0.0050 | 0.0050 | 0.0050 |
|-------------------|-----|--------|--------|--------|--------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

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Project Manager



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Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Matrix Descript: Soil
Analysis Method: EPA 5030/8015/8020
First Sample #: 202-0011

Sampled: Jan 30, 1992
Received: Feb 3, 1992
Analyzed: Feb 4, 1992
Reported: Feb 11, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|---------------------------------------------|------------------------|------------------------|------------------------------|------------------------|
| 202-0011 | SB-15(25-25.5) | 6.2 | 0.013 | 1.3 | 0.16 | 1.0 |

Detection Limits:

2.0

0.010

0.010

0.010

0.010

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

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Alton Geoscience
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Attention: Cherle D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Matrix Descript: Soil
Analysis Method: EPA 5030/8015/8020
First Sample #: 202-0012

Sampled: Jan 30, 1992
Received: Feb 3, 1992
Analyzed: Feb 4, 1992
Reported: Feb 11, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|------------------------------------------------|---------------------------|---------------------------|---------------------------------|---------------------------|
| 202-0012 | SB-15(34-34.5) | 4,100 | 51 | 270 | 130 | 540 |

Detection Limits:

100

0.50

0.50

0.50

0.50

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Alton Geoscience
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Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Matrix Descript: Soil
Analysis Method: EPA 5030/8015/8020
First Sample #: 202-0013

Sampled: Jan 30, 1992
Received: Feb 3, 1992
Analyzed: Feb 4, 1992
Reported: Feb 11, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|------------------------------------------------|---------------------------|---------------------------|---------------------------------|---------------------------|
| 202-0013 | SB-15(37-37.5) | 740 | 7.2 | 29 | 18 | 73 |

| | | | | | |
|--------------------------|-----------|-------------|-------------|-------------|-------------|
| Detection Limits: | 50 | 0.25 | 0.25 | 0.25 | 0.25 |
|--------------------------|-----------|-------------|-------------|-------------|-------------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

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Project Manager



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FEB 13 1992

Alton Geoscience
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Pleasanton, CA 94588
Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Matrix Descript: Soil
Analysis Method: SM 5520 E&F (Gravimetric)
First Sample #: 202-0009

Sampled: 1/30-1/31/92
Received: Feb 3, 1992
Extracted: Feb 4, 1992
Analyzed: Feb 7, 1992
Reported: Feb 11, 1992

TOTAL RECOVERABLE PETROLEUM OIL

| Sample Number | Sample Description | Oil & Grease mg/kg (ppm) |
|---------------|--------------------|--------------------------|
| 202-0009 | SB-15(11.5-12) | N.D. |
| 202-0010 | SB-15(17.5-18) | N.D. |
| 202-0011 | SB-15(25-25.5) | N.D. |
| 202-0012 | SB-15(34-34.5) | N.D. |
| 202-0013 | SB-15(37-37.5) | N.D. |
| 202-0014 | SB-14(19.5-20) | N.D. |
| 202-0015 | SB-14(29.5-30) | N.D. |
| 202-0016 | SB-14(34.5-35) | N.D. |
| 202-0017 | SB-14(39.5-40) | N.D. |

Detection Limits:

30

Analytes reported as N.D. were not present above the stated limit of detection.

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FEB 13 1992

Alton Geoscience
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Pleasanton, CA 94588
Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Sample Descript: Soil, SB-15(11.5-12)
Analysis Method: EPA 5030/8010
Lab Number: 202-0009

Sampled: Jan 30, 1992
Received: Feb 3, 1992
Analyzed: Feb 9, 1992
Reported: Feb 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/kg | Sample Results µg/kg |
|--------------------------------|--------------------------|-------------------------|
| Bromodichloromethane..... | 5.0 | N.D. |
| Bromoform..... | 5.0 | N.D. |
| Bromomethane..... | 5.0 | N.D. |
| Carbon tetrachloride..... | 5.0 | N.D. |
| Chlorobenzene..... | 5.0 | N.D. |
| Chloroethane..... | 5.0 | N.D. |
| 2-Chloroethylvinyl ether..... | 5.0 | N.D. |
| Chloroform..... | 5.0 | N.D. |
| Chloromethane..... | 5.0 | N.D. |
| Dibromochloromethane..... | 5.0 | N.D. |
| 1,2-Dichlorobenzene..... | 5.0 | N.D. |
| 1,3-Dichlorobenzene..... | 5.0 | N.D. |
| 1,4-Dichlorobenzene..... | 5.0 | N.D. |
| 1,1-Dichloroethane..... | 5.0 | N.D. |
| 1,2-Dichloroethane..... | 5.0 | N.D. |
| 1,1-Dichloroethene..... | 5.0 | N.D. |
| cis-1,2-Dichloroethene..... | 5.0 | N.D. |
| trans-1,2-Dichloroethene..... | 5.0 | N.D. |
| 1,2-Dichloropropane..... | 5.0 | N.D. |
| cis-1,3-Dichloropropene..... | 5.0 | N.D. |
| trans-1,3-Dichloropropene..... | 5.0 | N.D. |
| Methylene chloride..... | 50 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 5.0 | N.D. |
| Tetrachloroethene..... | 5.0 | N.D. |
| 1,1,1-Trichloroethane..... | 5.0 | N.D. |
| 1,1,2-Trichloroethane..... | 5.0 | N.D. |
| Trichloroethene..... | 5.0 | N.D. |
| Trichlorofluoromethane..... | 5.0 | N.D. |
| Vinyl chloride..... | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

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Project Manager



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Alton Geoscience
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Pleasanton, CA 94588
Attention: Cherle D' Andrea

Client Project ID: Mobil #10-H6J/30-0065-05
Sample Descript: Soil, SB-15(17.5-18)
Analysis Method: EPA 5030/8010
Lab Number: 202-0010

Sampled: Jan 30, 1992
Received: Feb 3, 1992
Analyzed: Feb 9, 1992
Reported: Feb 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/kg | Sample Results µg/kg |
|--------------------------------|--------------------------|-------------------------|
| Bromodichloromethane..... | 5.0 | N.D. |
| Bromoform..... | 5.0 | N.D. |
| Bromomethane..... | 5.0 | N.D. |
| Carbon tetrachloride..... | 5.0 | N.D. |
| Chlorobenzene..... | 5.0 | N.D. |
| Chloroethane..... | 5.0 | N.D. |
| 2-Chloroethylvinyl ether..... | 5.0 | N.D. |
| Chloroform..... | 5.0 | N.D. |
| Chloromethane..... | 5.0 | N.D. |
| Dibromochloromethane..... | 5.0 | N.D. |
| 1,2-Dichlorobenzene..... | 5.0 | N.D. |
| 1,3-Dichlorobenzene..... | 5.0 | N.D. |
| 1,4-Dichlorobenzene..... | 5.0 | N.D. |
| 1,1-Dichloroethane..... | 5.0 | N.D. |
| 1,2-Dichloroethane..... | 5.0 | N.D. |
| 1,1-Dichloroethene..... | 5.0 | N.D. |
| cis-1,2-Dichloroethene..... | 5.0 | N.D. |
| trans-1,2-Dichloroethene..... | 5.0 | N.D. |
| 1,2-Dichloropropane..... | 5.0 | N.D. |
| cis-1,3-Dichloropropene..... | 5.0 | N.D. |
| trans-1,3-Dichloropropene..... | 5.0 | N.D. |
| Methylene chloride..... | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 5.0 | N.D. |
| Tetrachloroethene..... | 5.0 | N.D. |
| 1,1,1-Trichloroethane..... | 5.0 | N.D. |
| 1,1,2-Trichloroethane..... | 5.0 | N.D. |
| Trichloroethene..... | 5.0 | N.D. |
| Trichlorofluoromethane..... | 5.0 | N.D. |
| Vinyl chloride..... | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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3

Alton Geoscience
5870 Stoneridge Drive, Suite 6
Pleasanton, CA 94588
Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Sample Descript: Soil, SB-15(25-25.5)
Analysis Method: EPA 5030/8010
Lab Number: 202-0011

Sampled: Jan 30, 1992
Received: Feb 3, 1992
Analyzed: Feb 9, 1992
Reported: Feb 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/kg | Sample Results µg/kg |
|--------------------------------|--------------------------|-------------------------|
| Bromodichloromethane..... | 5.0 | N.D. |
| Bromoform..... | 5.0 | N.D. |
| Bromomethane..... | 5.0 | N.D. |
| Carbon tetrachloride..... | 5.0 | N.D. |
| Chlorobenzene..... | 5.0 | N.D. |
| Chloroethane..... | 5.0 | N.D. |
| 2-Chloroethylvinyl ether..... | 5.0 | N.D. |
| Chloroform..... | 5.0 | N.D. |
| Chloromethane..... | 5.0 | N.D. |
| Dibromochloromethane..... | 5.0 | N.D. |
| 1,2-Dichlorobenzene..... | 5.0 | N.D. |
| 1,3-Dichlorobenzene..... | 5.0 | N.D. |
| 1,4-Dichlorobenzene..... | 5.0 | N.D. |
| 1,1-Dichloroethane..... | 5.0 | N.D. |
| 1,2-Dichloroethane..... | 5.0 | 23 |
| 1,1-Dichloroethene..... | 5.0 | N.D. |
| cis-1,2-Dichloroethene..... | 5.0 | N.D. |
| trans-1,2-Dichloroethene..... | 5.0 | N.D. |
| 1,2-Dichloropropane..... | 5.0 | N.D. |
| cis-1,3-Dichloropropene..... | 5.0 | N.D. |
| trans-1,3-Dichloropropene..... | 5.0 | N.D. |
| Methylene chloride..... | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 5.0 | N.D. |
| Tetrachloroethene..... | 5.0 | N.D. |
| 1,1,1-Trichloroethane..... | 5.0 | N.D. |
| 1,1,2-Trichloroethane..... | 5.0 | N.D. |
| Trichloroethene..... | 5.0 | N.D. |
| Trichlorofluoromethane..... | 5.0 | N.D. |
| Vinyl chloride..... | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Sample Descript: Soil, SB-15(34-34.5)
Analysis Method: EPA 5030/8010
Lab Number: 202-0012

Sampled: Jan 30, 1992
Received: Feb 3, 1992
Analyzed: Feb 9, 1992
Reported: Feb 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/kg | Sample Results µg/kg |
|--------------------------------|--------------------------|-------------------------|
| Bromodichloromethane..... | 50 | N.D. |
| Bromoform..... | 50 | N.D. |
| Bromomethane..... | 50 | N.D. |
| Carbon tetrachloride..... | 50 | N.D. |
| Chlorobenzene..... | 50 | N.D. |
| Chloroethane..... | 50 | N.D. |
| 2-Chloroethylvinyl ether..... | 50 | N.D. |
| Chloroform..... | 50 | N.D. |
| Chloromethane..... | 50 | N.D. |
| Dibromochloromethane..... | 50 | N.D. |
| 1,2-Dichlorobenzene..... | 50 | N.D. |
| 1,3-Dichlorobenzene..... | 50 | N.D. |
| 1,4-Dichlorobenzene..... | 50 | N.D. |
| 1,1-Dichloroethane..... | 50 | N.D. |
| 1,2-Dichloroethane..... | 50 | 390 |
| 1,1-Dichloroethene..... | 50 | N.D. |
| cis-1,2-Dichloroethene..... | 50 | N.D. |
| trans-1,2-Dichloroethene..... | 50 | N.D. |
| 1,2-Dichloropropane..... | 50 | N.D. |
| cis-1,3-Dichloropropene..... | 50 | N.D. |
| trans-1,3-Dichloropropene..... | 50 | N.D. |
| Methylene chloride..... | 500 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 50 | N.D. |
| Tetrachloroethene..... | 50 | N.D. |
| 1,1,1-Trichloroethane..... | 50 | N.D. |
| 1,1,2-Trichloroethane..... | 50 | N.D. |
| Trichloroethene..... | 50 | N.D. |
| Trichlorofluoromethane..... | 50 | N.D. |
| Vinyl chloride..... | 50 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

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Pleasanton, CA 94588
Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Sample Descript: Soil, SB-15(37-37.5)
Analysis Method: EPA 5030/8010
Lab Number: 202-0013

Sampled: Jan 30, 1992
Received: Feb 3, 1992
Analyzed: Feb 9, 1992
Reported: Feb 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/kg | Sample Results µg/kg |
|--------------------------------|--------------------------|-------------------------|
| Bromodichloromethane..... | 5.0 | N.D. |
| Bromoform..... | 5.0 | N.D. |
| Bromomethane..... | 5.0 | N.D. |
| Carbon tetrachloride..... | 5.0 | N.D. |
| Chlorobenzene..... | 5.0 | N.D. |
| Chloroethane..... | 5.0 | N.D. |
| 2-Chloroethylvinyl ether..... | 5.0 | N.D. |
| Chloroform..... | 5.0 | N.D. |
| Chloromethane..... | 5.0 | N.D. |
| Dibromochloromethane..... | 5.0 | N.D. |
| 1,2-Dichlorobenzene..... | 5.0 | N.D. |
| 1,3-Dichlorobenzene..... | 5.0 | N.D. |
| 1,4-Dichlorobenzene..... | 5.0 | N.D. |
| 1,1-Dichloroethane..... | 5.0 | N.D. |
| 1,2-Dichloroethane..... | 5.0 | 65 |
| 1,1-Dichloroethene..... | 5.0 | N.D. |
| cis-1,2-Dichloroethene..... | 5.0 | N.D. |
| trans-1,2-Dichloroethene..... | 5.0 | N.D. |
| 1,2-Dichloropropane..... | 5.0 | N.D. |
| cis-1,3-Dichloropropene..... | 5.0 | N.D. |
| trans-1,3-Dichloropropene..... | 5.0 | N.D. |
| Methylene chloride..... | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 5.0 | N.D. |
| Tetrachloroethene..... | 5.0 | N.D. |
| 1,1,1-Trichloroethane..... | 5.0 | N.D. |
| 1,1,2-Trichloroethane..... | 5.0 | N.D. |
| Trichloroethene..... | 5.0 | N.D. |
| Trichlorofluoromethane..... | 5.0 | N.D. |
| Vinyl chloride..... | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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Attention: Cherlie D' Andrea

Client Project ID: Mobil #10-H6J/30-0065-05
Sample Descript: Soil, SB-14(19.5-20)
Analysis Method: EPA 5030/8010
Lab Number: 202-0014

Sampled: Jan 31, 1992
Received: Feb 3, 1992
Analyzed: Feb 9, 1992
Reported: Feb 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/kg | Sample Results µg/kg |
|--------------------------------|--------------------------|-------------------------|
| Bromodichloromethane..... | 5.0 | N.D. |
| Bromoform..... | 5.0 | N.D. |
| Bromomethane..... | 5.0 | N.D. |
| Carbon tetrachloride..... | 5.0 | N.D. |
| Chlorobenzene..... | 5.0 | N.D. |
| Chloroethane..... | 5.0 | N.D. |
| 2-Chloroethylvinyl ether..... | 5.0 | N.D. |
| Chloroform..... | 5.0 | N.D. |
| Chloromethane..... | 5.0 | N.D. |
| Dibromochloromethane..... | 5.0 | N.D. |
| 1,2-Dichlorobenzene..... | 5.0 | N.D. |
| 1,3-Dichlorobenzene..... | 5.0 | N.D. |
| 1,4-Dichlorobenzene..... | 5.0 | N.D. |
| 1,1-Dichloroethane..... | 5.0 | N.D. |
| 1,2-Dichloroethane..... | 5.0 | N.D. |
| 1,1-Dichloroethene..... | 5.0 | N.D. |
| cis-1,2-Dichloroethene..... | 5.0 | N.D. |
| trans-1,2-Dichloroethene..... | 5.0 | N.D. |
| 1,2-Dichloropropane..... | 5.0 | N.D. |
| cis-1,3-Dichloropropene..... | 5.0 | N.D. |
| trans-1,3-Dichloropropene..... | 5.0 | N.D. |
| Methylene chloride..... | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 5.0 | N.D. |
| Tetrachloroethene..... | 5.0 | N.D. |
| 1,1,1-Trichloroethane..... | 5.0 | N.D. |
| 1,1,2-Trichloroethane..... | 5.0 | N.D. |
| Trichloroethene..... | 5.0 | N.D. |
| Trichlorofluoromethane..... | 5.0 | N.D. |
| Vinyl chloride..... | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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Attention: Cherle D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Sample Descript: Soil, SB-14(29.5-30)
Analysis Method: EPA 5030/8010
Lab Number: 202-0015

Sampled: Jan 31, 1992
Received: Feb 3, 1992
Analyzed: Feb 9, 1992
Reported: Feb 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/kg | Sample Results µg/kg |
|--------------------------------|--------------------------|-------------------------|
| Bromodichloromethane..... | 5.0 | N.D. |
| Bromoform..... | 5.0 | N.D. |
| Bromomethane..... | 5.0 | N.D. |
| Carbon tetrachloride..... | 5.0 | N.D. |
| Chlorobenzene..... | 5.0 | N.D. |
| Chloroethane..... | 5.0 | N.D. |
| 2-Chloroethylvinyl ether..... | 5.0 | N.D. |
| Chloroform..... | 5.0 | N.D. |
| Chloromethane..... | 5.0 | N.D. |
| Dibromochloromethane..... | 5.0 | N.D. |
| 1,2-Dichlorobenzene..... | 5.0 | N.D. |
| 1,3-Dichlorobenzene..... | 5.0 | N.D. |
| 1,4-Dichlorobenzene..... | 5.0 | N.D. |
| 1,1-Dichloroethane..... | 5.0 | N.D. |
| 1,2-Dichloroethane..... | 5.0 | N.D. |
| 1,1-Dichloroethene..... | 5.0 | N.D. |
| cis-1,2-Dichloroethene..... | 5.0 | N.D. |
| trans-1,2-Dichloroethene..... | 5.0 | N.D. |
| 1,2-Dichloropropane..... | 5.0 | N.D. |
| cis-1,3-Dichloropropene..... | 5.0 | N.D. |
| trans-1,3-Dichloropropene..... | 5.0 | N.D. |
| Methylene chloride..... | 50 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 5.0 | N.D. |
| Tetrachloroethene..... | 5.0 | N.D. |
| 1,1,1-Trichloroethane..... | 5.0 | N.D. |
| 1,1,2-Trichloroethane..... | 5.0 | N.D. |
| Trichloroethene..... | 5.0 | N.D. |
| Trichlorofluoromethane..... | 5.0 | N.D. |
| Vinyl chloride..... | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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Pleasanton, CA 94588
Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Sample Descript: Soil, SB-14(34.5-35)
Analysis Method: EPA 5030/8010
Lab Number: 202-0016

Sampled: Jan 31, 1992
Received: Feb 3, 1992
Analyzed: Feb 9, 1992
Reported: Feb 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/kg | Sample Results µg/kg |
|--------------------------------|--------------------------|-------------------------|
| Bromodichloromethane..... | 5.0 | N.D. |
| Bromoform..... | 5.0 | N.D. |
| Bromomethane..... | 5.0 | N.D. |
| Carbon tetrachloride..... | 5.0 | N.D. |
| Chlorobenzene..... | 5.0 | N.D. |
| Chloroethane..... | 5.0 | N.D. |
| 2-Chloroethylvinyl ether..... | 5.0 | N.D. |
| Chloroform..... | 5.0 | N.D. |
| Chloromethane..... | 5.0 | N.D. |
| Dibromochloromethane..... | 5.0 | N.D. |
| 1,2-Dichlorobenzene..... | 5.0 | N.D. |
| 1,3-Dichlorobenzene..... | 5.0 | N.D. |
| 1,4-Dichlorobenzene..... | 5.0 | N.D. |
| 1,1-Dichloroethane..... | 5.0 | N.D. |
| 1,2-Dichloroethane..... | 5.0 | N.D. |
| 1,1-Dichloroethene..... | 5.0 | N.D. |
| cis-1,2-Dichloroethene..... | 5.0 | N.D. |
| trans-1,2-Dichloroethene..... | 5.0 | N.D. |
| 1,2-Dichloropropane..... | 5.0 | N.D. |
| cis-1,3-Dichloropropene..... | 5.0 | N.D. |
| trans-1,3-Dichloropropene..... | 5.0 | N.D. |
| Methylene chloride..... | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 5.0 | N.D. |
| Tetrachloroethene..... | 5.0 | N.D. |
| 1,1,1-Trichloroethane..... | 5.0 | N.D. |
| 1,1,2-Trichloroethane..... | 5.0 | N.D. |
| Trichloroethene..... | 5.0 | N.D. |
| Trichlorofluoromethane..... | 5.0 | N.D. |
| Vinyl chloride..... | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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Alton Geoscience
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Pleasanton, CA 94588
Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Sample Descript: Soil, SB-14(39.5-40)
Analysis Method: EPA 5030/8010
Lab Number: 202-0017

Sampled: Jan 31, 1992
Received: Feb 3, 1992
Analyzed: Feb 10, 1992
Reported: Feb 11, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/kg | Sample Results µg/kg |
|--------------------------------|--------------------------|-------------------------|
| Bromodichloromethane..... | 5.0 | N.D. |
| Bromoform..... | 5.0 | N.D. |
| Bromomethane..... | 5.0 | N.D. |
| Carbon tetrachloride..... | 5.0 | N.D. |
| Chlorobenzene..... | 5.0 | N.D. |
| Chloroethane..... | 5.0 | N.D. |
| 2-Chloroethylvinyl ether..... | 5.0 | N.D. |
| Chloroform..... | 5.0 | N.D. |
| Chloromethane..... | 5.0 | N.D. |
| Dibromochloromethane..... | 5.0 | N.D. |
| 1,2-Dichlorobenzene..... | 5.0 | N.D. |
| 1,3-Dichlorobenzene..... | 5.0 | N.D. |
| 1,4-Dichlorobenzene..... | 5.0 | N.D. |
| 1,1-Dichloroethane..... | 5.0 | N.D. |
| 1,2-Dichloroethane..... | 5.0 | N.D. |
| 1,1-Dichloroethene..... | 5.0 | N.D. |
| cis-1,2-Dichloroethene..... | 5.0 | N.D. |
| trans-1,2-Dichloroethene..... | 5.0 | N.D. |
| 1,2-Dichloropropane..... | 5.0 | N.D. |
| cis-1,3-Dichloropropene..... | 5.0 | N.D. |
| trans-1,3-Dichloropropene..... | 5.0 | N.D. |
| Methylene chloride..... | 5.0 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 5.0 | N.D. |
| Tetrachloroethene..... | 5.0 | N.D. |
| 1,1,1-Trichloroethane..... | 5.0 | N.D. |
| 1,1,2-Trichloroethane..... | 5.0 | N.D. |
| Trichloroethene..... | 5.0 | N.D. |
| Trichlorofluoromethane..... | 5.0 | N.D. |
| Vinyl chloride..... | 5.0 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

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Client Project ID: Mobil #10-H6J/ 30-0065-05
Sample Descript: Soil, SB-15(37-37.5)
Lab Number: 202-0013

Sampled: Jan 30, 1992
Received: Feb 3, 1992
Extracted: 2/4-2/5/92
Reported: Feb 11, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Soluble Threshold Limit Concentration
Waste Extraction Test

Total Threshold Limit Concentration

| Analyte | STLC Max. Limit (mg/L) | Detection Limit (mg/L) | Analysis Result (mg/L) | TTL Max. Limit (mg/kg) | Detection Limit (mg/kg) | Analysis Result (mg/kg) |
|----------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|
| Antimony | 15 | 0.10 | 0.14 | 500 | 5.0 | 19 |
| Arsenic | 5.0 | 0.10 | - | 500 | 5.0 | N.D. |
| Barium | 100 | 0.10 | 10 | 10,000 | 5.0 | 140 |
| Beryllium | 0.75 | 0.010 | - | 75 | 0.50 | N.D. |
| Cadmium | 1.0 | 0.010 | - | 100 | 0.50 | N.D. |
| Chromium (VI) | 5.0 | 0.0050 | - | 500 | 0.050 | - |
| Chromium (III) | 660 | 0.010 | - | 2,600 | 0.50 | 67 |
| Cobalt | 80 | 0.050 | - | 6,000 | 2.5 | 18 |
| Copper | 25 | 0.010 | - | 2,500 | 0.50 | 21 |
| Lead | 5.0 | 0.10 | 0.38 | 1,000 | 5.0 | 18 |
| Mercury | 0.20 | 0.00020 | - | 20 | 0.010 | 0.040 |
| Molybdenum | 350 | 0.050 | - | 3,500 | 2.5 | N.D. |
| Nickel | 20 | 0.050 | 0.38 | 2,000 | 2.5 | 65 |
| Selenium | 1.0 | 0.10 | - | 100 | 5.0 | N.D. |
| Silver | 5.0 | 0.010 | - | 500 | 0.50 | N.D. |
| Thallium | 7.0 | 0.10 | - | 700 | 5.0 | N.D. |
| Vanadium | 24 | 0.050 | 0.23 | 2,400 | 2.5 | 35 |
| Zinc | 250 | 0.010 | - | 6,000 | 0.50 | 64 |
| Asbestos | - | 10 | - | 10,000 | 100 | - |
| Fluoride | 180 | 0.10 | - | 18,000 | 1.0 | - |

TTL results are reported as mg/kg of wet weight. Asbestos results are reported as fibers/g.
Analytes reported as N.D. were not present above the stated limit of detection.

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Page 1

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Attention: Cherle D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Sample Descript: Soil, SB-14(39.5-40)
Lab Number: 202-0017

Sampled: Jan 31, 1992
Received: Feb 3, 1992
Extracted: 2/4-2/5/92
Reported: Feb 11, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Soluble Threshold Limit Concentration
Waste Extraction Test

Total Threshold Limit Concentration

| Analyte | STLC Max. Limit (mg/L) | Detection Limit (mg/L) | Analysis Result (mg/L) | TTL Max. Limit (mg/kg) | Detection Limit (mg/kg) | Analysis Result (mg/kg) |
|----------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|
| Antimony | 15 | 0.10 | 0.10 | 500 | 5.0 | 22 |
| Arsenic | 5.0 | 0.10 | - | 500 | 5.0 | N.D. |
| Barium | 100 | 0.10 | 6.1 | 10,000 | 5.0 | 200 |
| Beryllium | 0.75 | 0.010 | - | 75 | 0.50 | 0.54 |
| Cadmium | 1.0 | 0.010 | - | 100 | 0.50 | N.D. |
| Chromium (VI) | 5.0 | 0.0050 | - | 500 | 0.050 | - |
| Chromium (III) | 660 | 0.010 | - | 2,500 | 0.50 | 63 |
| Cobalt | 80 | 0.050 | - | 8,000 | 2.5 | 18 |
| Copper | 25 | 0.010 | 0.28 | 2,500 | 0.50 | 25 |
| Lead | 5.0 | 0.10 | 0.31 | 1,000 | 5.0 | 16 |
| Mercury | 0.20 | 0.00020 | - | 20 | 0.010 | 0.0060 |
| Molybdenum | 350 | 0.050 | - | 3,500 | 2.5 | N.D. |
| Nickel | 20 | 0.050 | 0.39 | 2,000 | 2.5 | 89 |
| Selenium | 1.0 | 0.10 | - | 100 | 5.0 | N.D. |
| Silver | 5.0 | 0.010 | - | 500 | 0.50 | N.D. |
| Thallium | 7.0 | 0.10 | - | 700 | 5.0 | N.D. |
| Vanadium | 24 | 0.050 | 0.20 | 2,400 | 2.5 | 38 |
| Zinc | 250 | 0.010 | - | 5,000 | 0.50 | 66 |
| Asbestos | - | 10 | - | 10,000 | 100 | - |
| Fluoride | 180 | 0.10 | - | 18,000 | 1.0 | - |

TTL results are reported as mg/kg of wet weight. Asbestos results are reported as fibers/g.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Project Manager



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1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

Alton Geoscience
5870 Stoneridge Drive, Suite 6
Pleasanton, CA 94588
Attention: Cherle D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05
Sample Descript: Soil
Analysis for: Total Organic Carbon
First Sample #: 202-0013

Sampled: 1/30-1/31/92
Received: Feb 3, 1992
Extracted: Feb 6, 1992
Analyzed: Feb 6, 1992
Reported: Feb 11, 1992

LABORATORY ANALYSIS FOR: Total Organic Carbon

| Sample Number | Sample Description | Detection Limit mg/kg | Sample Result mg/kg |
|---------------|--------------------|-----------------------|---------------------|
| 202-0013 | SB-15(37-37.5) | 33 | 330 |
| 202-0017 | SB-14(39.5-40) | 33 | 140 |

Analytes reported as N.D. were not present above the stated limit of detection.

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Project Manager



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Alton Geoscience
5870 Stoneridge Drive, Suite 6
Pleasanton, CA 94588
Attention: Cherie D' Andrea

Client Project ID: Mobil # 10-H6J/ 30-0065-05

QC Sample Group: 2020009-17

Reported: Feb 11, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl-Benzene | Xylenes | Oil and Grease | Total Organic Carbon |
|------------------------------------|--------------|---------------|---------------|---------------|----------------|----------------------|
| | Method: | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 | SM5520 |
| Analyst: | K.N. | K.N. | K.N. | K.N. | D. Newcomb | M. Fazio |
| Reporting Units: | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Date Analyzed: | Feb 4, 1992 | Feb 4, 1992 | Feb 4, 1992 | Feb 4, 1992 | Feb 4, 1992 | Feb 6, 1992 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank | Matrix Blank | Matrix Blank | 202-0145 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. | 70 |
| Spike Conc. Added: | 0.40 | 0.40 | 0.40 | 1.2 | 5000 | 7300 |
| Conc. Matrix Spike: | 0.44 | 0.44 | 0.48 | 1.4 | 4700 | 8200 |
| Matrix Spike % Recovery: | 110 | 110 | 120 | 116 | 94 | 111 |
| Conc. Matrix Spike Dup.: | 0.42 | 0.42 | 0.45 | 1.3 | 4700 | 8000 |
| Matrix Spike Duplicate % Recovery: | 105 | 105 | 112 | 108 | 94 | 109 |
| Relative % Difference: | 4.6 | 4.6 | 6.4 | 7.4 | 0.0 | 2.5 |

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Scott A. Chieffo
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Pleasanton, CA 94588
Attention: Cherle D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05

QC Sample Group: 2020009-17

Reported: Feb 11, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | Antimony | Barium | Beryllium | Cadmium | Chromium | Cobalt | Copper |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Method: | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 |
| Analyst: | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser |
| Reporting Units: | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Date Analyzed: | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 |
| QC Sample #: | 202-0505 | 202-0505 | 202-0505 | 202-0505 | 202-0505 | 202-0505 | 202-0505 |
| Sample Conc.: | N. D. | 36 | N. D. | N. D. | 4.0 | 3.0 | 6.6 |
| Spike Conc. Added: | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Conc. Matrix Spike: | 110 | 140 | 100 | 110 | 110 | 110 | 110 |
| Matrix Spike % Recovery: | 110 | 104 | 100 | 110 | 106 | 107 | 103 |
| Conc. Matrix Spike Dup.: | 110 | 140 | 100 | 110 | 110 | 110 | 110 |
| Matrix Spike Duplicate % Recovery: | 110 | 104 | 100 | 110 | 106 | 107 | 103 |
| Relative % Difference: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Scott A. Chieffo
Scott A. Chieffo
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Alton Geoscience
5870 Stoneridge Drive, Suite 6
Pleasanton, CA 94588
Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05

QC Sample Group: 2020009-17

Reported: Feb 11, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | Molybdenum | Nickel | Silver | Thallium | Vanadium | Zinc | Arsenic |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Method: | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 |
| Analyst: | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser |
| Reporting Units: | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Date Analyzed: | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 |
| QC Sample #: | 202-0505 | 202-0505 | 202-0505 | 202-0505 | 202-0505 | 202-0505 | 202-0505 |
| Sample Conc.: | N. D. | 3.9 | N. D. | N. D. | 12 | 20 | N. D. |
| Spike Conc. Added: | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Conc. Matrix Spike: | 100 | 110 | 110 | 120 | 120 | 120 | 100 |
| Matrix Spike % Recovery: | 100 | 106 | 110 | 120 | 108 | 100 | 100 |
| Conc. Matrix Spike Dup.: | 110 | 110 | 110 | 120 | 120 | 130 | 110 |
| Matrix Spike Duplicate % Recovery: | 110 | 106 | 110 | 120 | 108 | 110 | 110 |
| Relative % Difference: | 9.5 | 0.0 | 0.0 | 0.0 | 0.0 | 8.0 | 9.5 |

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Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05

QC Sample Group: 2020009-17

Reported: Feb 11, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | Selenium | Lead | Mercury | Nickel | Vanadium | Barium | Copper |
|------------------------------------|---------------|---------------|-------------|---------------|---------------|---------------|---------------|
| Method: | EPA 6010 | EPA 6010 | EPA 7471 | EPA 200.7 | EPA 200.7 | EPA 200.7 | EPA 200.7 |
| Analyst: | C. Medefesser | C. Medefesser | J. Martinez | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser |
| Reporting Units: | mg/kg | mg/kg | mg/kg | mg/L | mg/L | mg/L | mg/L |
| Date Analyzed: | Feb 5, 1992 | Feb 5, 1992 | Feb 5, 1992 | Feb 7, 1992 | Feb 7, 1992 | Feb 7, 1992 | Feb 7, 1992 |
| QC Sample #: | 202-0505 | 202-0505 | 202-0093 | 201-4858 | 201-4858 | 201-4858 | 201-4858 |
| Sample Conc.: | N. D. | 5.2 | N. D. | N. D. | N. D. | 0.26 | 0.11 |
| Spike Conc. Added: | 100 | 100 | 0.10 | 5.0 | 5.0 | 5.0 | 5.0 |
| Conc. Matrix Spike: | 99 | 110 | 0.10 | 4.0 | 4.1 | 4.4 | 4.7 |
| Matrix Spike % Recovery: | 99 | 105 | 100 | 80 | 82 | 83 | 92 |
| Conc. Matrix Spike Dup.: | 100 | 110 | 0.10 | 4.1 | 4.2 | 4.5 | 4.8 |
| Matrix Spike Duplicate % Recovery: | 100 | 105 | 100 | 82 | 84 | 85 | 94 |
| Relative % Difference: | 1.0 | 0.0 | 0.0 | 2.5 | 2.4 | 2.2 | 2.1 |

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Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05

QC Sample Group: 2020009-17

Reported: Feb 11, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | Lead | Antimony |
|---------|------|----------|
|---------|------|----------|

| | | |
|------------------|----------------|----------------|
| Method: | EPA 200.7 | EPA 200.7 |
| Analyst: | C. Medefessser | C. Medefessser |
| Reporting Units: | mg/L | mg/L |
| Date Analyzed: | Feb 7, 1992 | Feb 7, 1992 |
| QC Sample #: | 201-4858 | 201-4858 |

Sample Conc.: N. D. N. D.

Spike Conc. Added: 5.0 5.0

Conc. Matrix Spike: 4.4 4.4

Matrix Spike % Recovery: 88 88

Conc. Matrix Spike Dup.: 4.2 4.4

Matrix Spike Duplicate % Recovery: 84 88

Relative % Difference: 4.7 0.0

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Scott A. Chieffo
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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Pleasanton, CA 94588
Attention: Cherie D' Andrea

Client Project ID: Mobil #10-H6J/ 30-0065-05

QC Sample Group: 2020009-17

Reported: Feb 11, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloroethene | Trichloro-ethene | Chloro-benzene |
|---------|--------------------|------------------|----------------|
|---------|--------------------|------------------|----------------|

| | | | |
|------------------|--------------|--------------|--------------|
| Method: | EPA 8010 | EPA 8010 | EPA 8010 |
| Analyst: | M. Nguyen | M. Nguyen | M. Nguyen |
| Reporting Units: | mg/kg | mg/kg | mg/kg |
| Date Analyzed: | Feb 9, 1992 | Feb 9, 1992 | Feb 9, 1992 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank |

| | | | |
|------------------------------------|------|------|------|
| Sample Conc.: | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 10 | 10 | • |
| Conc. Matrix Spike: | 8.0 | 9.7 | 10 |
| Matrix Spike % Recovery: | 80 | 97 | 100 |
| Conc. Matrix Spike Dup.: | 7.5 | 9.9 | 10 |
| Matrix Spike Duplicate % Recovery: | 75 | 99 | 100 |
| Relative % Difference: | 6.5 | 2.0 | 0.0 |

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Scott A. Chieffo
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |

Mobil Chain of Custody



SEQUOIA ANALYTICAL

Redwood City: (415) 364-8600
 Concord: (510) 686-9600
 Sacramento: (916) 921-8600

| | | |
|-----------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------|
| Consulting Firm Name: <u>Atton Geoscience</u> | Site SS #: <u>10-H65</u> | Phase of Work: |
| Address: <u>1000 Burnett Ave #140</u> | Mobil Site Address: <u>1024 Main St Pleasanton</u> | <input type="checkbox"/> A. Emrg. Response |
| City: <u>Concord</u> State: <u>CA</u> Zip Code: <u>94521</u> | Mobil Engineer: <u>Ed. Hoepker</u> | <input checked="" type="checkbox"/> B. Site Assessment |
| Telephone: <u>510 682 1582</u> FAX #: <u>40 682 8921</u> | Consultant Project #: <u>30-0065-05</u> | <input type="checkbox"/> C. Remediation |
| Project Contact: <u>C. D'Andrea</u> Sampled by: <u>Chris Reinhold</u> | Sequoia's Work Order Release #: | <input type="checkbox"/> D. Monitoring |
| | | <input type="checkbox"/> E. OGC/Claims |

Turnaround Time: Standard TAT (5 - 10 Working Days) *TRPH gravimetric method*
 Other _____

Analyses Requested

| Client Sample I.D. | Date/Time Sampled | Matrix Description | # of Containers | Sequoia's Sample # | TPH Gas/BTEX | TPH Diesel | TRPH by I.R. EPA 418.1 | Oil & Greases EPA 418.2 | HVOC | metals | Organic | Comments |
|---------------------|-------------------|--------------------|-----------------|--------------------|--------------|------------|------------------------|-------------------------|----------|----------|----------|---------------------|
| 1. <u>305-31</u> | <u>1-30-92</u> | <u>Soil</u> | <u>1</u> | | | | | | | | <u>X</u> | <u>9-15/92 9-16</u> |
| 2. <u>325-33</u> | | | <u>1</u> | | | | | | | | <u>X</u> | |
| 3. <u>345-35</u> | | | <u>1</u> | <u>2020012</u> | <u>X</u> | | <u>X</u> | <u>X</u> | | | | |
| 4. <u>355-36</u> | | | <u>1</u> | | | | | | | | <u>X</u> | |
| 5. <u>37-37.5</u> | | | <u>1</u> | <u>2020013</u> | <u>X</u> | | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | |
| 6. <u>38-38.5</u> | | | <u>1</u> | | | | | | | | <u>X</u> | |
| 7. <u>415-42</u> | | | <u>1</u> | | | | | | | | <u>X</u> | |
| 8. 43-44 | | | | | | | | | | | | |
| 9. 45-46 | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | |

| | | | |
|-------------------------------------|----------------------------------------|---------------------------------|------------------------------------------|
| Relinquished By: <u>[Signature]</u> | Date: <u>2-3-92</u> Time: <u>10:35</u> | Received By: <u>[Signature]</u> | Date: <u>2-3-92</u> Time: <u>2:20 PM</u> |
| Relinquished By: _____ | Date: _____ Time: _____ | Received By: _____ | Date: _____ Time: _____ |
| Relinquished By: _____ | Date: _____ Time: _____ | Received By: _____ | Date: _____ Time: _____ |

Method of Shipment

Mobil Chain of Custody



**SEQUOIA
ANALYTICAL**

Redwood City: (415) 364-9600
 Concord: (510) 686-9600
 Sacramento: (916) 921-9600

| | | | | | | |
|-----------------------------------------------|------------------|-----------------------------------|----------------------------------------------------|-----------------------------------------|----------------|--------------------------------------------------------|
| Consulting Firm Name: <u>Alton Geoscience</u> | | | Site SS #: <u>10-H65</u> | | Phase of Work: | |
| Address: <u>1000 Burnett Ave #140</u> | | | Mobil Site Address: <u>1024 Main St Pleasanton</u> | | | <input type="checkbox"/> A. Emrg. Response |
| City: <u>Concord</u> | State: <u>CA</u> | Zip Code: <u>94521</u> | Mobil Engineer: <u>Ed Hoepker</u> | | | <input checked="" type="checkbox"/> B. Site Assessment |
| Telephone: <u>510 6821582</u> | | FAX #: <u>510 689 8721</u> | | Consultant Project #: <u>30-0065-05</u> | | <input type="checkbox"/> C. Remediation |
| Project Contact: <u>C. D'Andrea</u> | | Sampled by: <u>Chris Reinheim</u> | | Sequoia's Work Order Release #: | | <input type="checkbox"/> D. Monitoring |
| | | | | | | <input type="checkbox"/> E. OGC/Claims |

Turnaround Time: Standard TAT (5 - 10 Working Days) *TRPH gravimetric method* Other _____

Analyses Requested

| Client Sample I.D. | Date/Time Sampled | Matrix Description | # of Containers | Sequoia's Sample # | TPH Gas/BTEX | TPH Diesel | TPH by I.R. EPA 418.1 | Oil & Grease EPA 801.1 | HVOC | SAM TTEP metals | Organics | Carbon | EPA Article Comments |
|--------------------------|-------------------|--------------------|-----------------|--------------------|--------------|------------|-----------------------|------------------------|----------|-----------------|----------|----------|----------------------|
| <u>SB-14 1. 17.5-20</u> | <u>1-31-92</u> | <u>Soil</u> | <u>1</u> | <u>2020014</u> | <u>X</u> | | | <u>X</u> | <u>X</u> | | | | <u>Bas/BozD 8-10</u> |
| <u>SB-14 2. 24.5-25</u> | | | <u>1</u> | | | | | | | | | <u>X</u> | |
| <u>SB-14 3. 28.5-29</u> | | | <u>1</u> | | | | | | | | | <u>X</u> | |
| <u>SB-14 4. 29.5-30</u> | | | <u>1</u> | <u>2020015</u> | <u>X</u> | | | <u>X</u> | <u>X</u> | | | | |
| <u>SB-14 5. 32.5-33</u> | | | <u>1</u> | | | | | | | | | <u>X</u> | |
| <u>SB-14 6. 34.5-35</u> | | | <u>1</u> | <u>2020016</u> | <u>X</u> | | | <u>X</u> | <u>X</u> | | | | |
| <u>SB-14 7. 37-37.5</u> | | | <u>1</u> | | | | | | | | | <u>X</u> | |
| <u>SB-14 8. 38-38.5</u> | | | <u>1</u> | | | | | | | | | <u>X</u> | |
| <u>SB-14 9. 39.5-40</u> | | | <u>1</u> | <u>2020017</u> | <u>X</u> | | | <u>X</u> | <u>X</u> | <u>X</u> | <u>X</u> | | |
| <u>SB-14 10. 41.5-42</u> | | | <u>1</u> | | | | | | | | | <u>X</u> | |

| | | | | | |
|-------------------------------------|---------------------|--------------------|---------------------------------|---------------------|----------------------|
| Relinquished By: <u>[Signature]</u> | Date: <u>2-3-92</u> | Time: <u>10:55</u> | Received By: <u>[Signature]</u> | Date: <u>2-3-92</u> | Time: <u>2:20 PM</u> |
| Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____ | Date: _____ | Time: _____ |
| Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____ | Date: _____ | Time: _____ |

Method of Shipment

Mobil Chain of Custody



SEQUOIA ANALYTICAL

Redwood City: (415) 364-9600
 Concord: (510) 686-9600
 Sacramento: (916) 921-9600

| | | | | | | | | |
|--------------------------------------------------------------|--|---------------------------------------|----------------------------------------------------|---------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Consulting Firm Name: <u>Alton Geoscience</u> | | | Site SS #: <u>10-H65</u> | | | Phase of Work: | | |
| Address: <u>1000 Burnett Ave #140</u> | | | Mobil Site Address: <u>1024 Main St Pleasanton</u> | | | <input type="checkbox"/> A. Emrg. Response <input checked="" type="checkbox"/> B. Site Assessment <input type="checkbox"/> C. Remediation <input type="checkbox"/> D. Monitoring <input type="checkbox"/> E. OGC/Claims | | |
| City: <u>Concord</u> State: <u>CA</u> Zip Code: <u>94521</u> | | Mobil Engineer: <u>Ed Hoepker</u> | | | | | | |
| Telephone: ⁵¹⁰ <u>682 1582</u> | | FAX #: ⁵¹⁰ <u>682 9924</u> | | | Consultant Project #: <u>30-0065-05</u> | | | |
| Project Contact: <u>C. D'Andrea</u> | | Sampled by: <u>Chris Reinheiser</u> | | Sequoia's Work Order Release #: | | | | |

Turnaround Time: Standard TAT (5 - 10 Working Days)

Other _____

Analyses Requested

| Client Sample I.D. | Date/Time Sampled | Matrix Description | # of Containers | Sequoia's Sample # | Analyses Requested | | | | | | | | Comments | | |
|-------------------------|--------------------|--------------------|-----------------|--------------------|--------------------|------------|------------------------|------------------------|------|------|--------|----------|----------|--------|-------------------------|
| | | | | | TPH Gas/BTEX | TPH Diesel | TPPH by I.R. EPA 418.1 | Oil & Grease EPA 801.2 | HVOC | Atom | metals | organics | | carbon | |
| SB-14 445-45 | 1-31-92 | soil | 1 | | | | | | | | | | | | 905/800 7010 |
| SB-14 445-45 | 1-31-92 | soil | 1 | | | | | | | | | | | | |
| SB-14 445-45 | 1-31-92 | soil | 1 | | | | | | | | | | | | |
| SB-14 525-53 | | | 1 | | | | | | | | | | | | X |
| SB-14 54-545 | | | 1 | | | | | | | | | | | | X |
| 6. | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | |

| | | | |
|-------------------------------------|----------------------------------------|---------------------------------|-----------------------------------------|
| Relinquished By: <u>[Signature]</u> | Date: <u>2-3-92</u> Time: <u>10:55</u> | Received By: <u>[Signature]</u> | Date: <u>2-3-92</u> Time: <u>2:20pm</u> |
| Relinquished By: _____ | Date: _____ Time: _____ | Received By: _____ | Date: _____ Time: _____ |
| Relinquished By: _____ | Date: _____ Time: _____ | Received By: _____ | Date: _____ Time: _____ |

Method of Shipment _____

Mobil Chain of Custody



**SEQUOIA
ANALYTICAL**

Redwood City:
Concord:
Sacramento:

(415) 364-8600
(510) 686-9600
(916) 921-8600

| | | | | | | | | | |
|-----------------------------------------------|--|------------------------|----------------------------------------------------|-----------------------------------|--|--------------------------------------------------------|-----------------------------------------|--|--|
| Consulting Firm Name: <u>Alten Geoscience</u> | | | Site SS #: <u>10-H65</u> | | | Phase of Work: | | | |
| Address: <u>1000 Burnett Ave #140</u> | | | Mobil Site Address: <u>1024 Main St Pleasanton</u> | | | <input type="checkbox"/> A. Emrg. Response | | | |
| City: <u>Concord</u> | | State: <u>CA</u> | | Zip Code: <u>94521</u> | | <input checked="" type="checkbox"/> B. Site Assessment | | | |
| Telephone: <u>682 1582</u> | | FAX #: <u>682 8921</u> | | Mobil Engineer: <u>Ed Hoepker</u> | | | <input type="checkbox"/> C. Remediation | | |
| Project Contact: <u>C D'Andrea</u> | | | Sampled by: <u>Chris Reinheim</u> | | | Consultant Project #: <u>SD-0065-05</u> | | | |
| Sequoia's Work Order Release #: | | | | | | <input type="checkbox"/> D. Monitoring | | | |
| | | | | | | <input type="checkbox"/> E. OGC/Claims | | | |

Turnaround Time: Standard TAT (5 - 10 Working Days) Other _____

*TRPH
gravimetric
method*

Analyses Requested

| Client Sample I.D. | Date/Time Sampled | Matrix Description | # of Containers | Sequoia's Sample # | TPH Gas/BTEX | TPH Diesel | TRPH by I.R. EPA 418.1 | Oil & Grease | HVOC | Chromatals | TILC | Organic Carbon | Comments |
|-----------------------------------|-------------------|--------------------|-----------------|--------------------|--------------|------------|------------------------|--------------|------|------------|------|----------------|--------------------------------|
| 1. <u>SB-15</u> <u>11.5-12</u> | <u>1-30-92</u> | <u>Soil</u> | <u>1</u> | <u>2020009</u> | X | | X | X | | | | | <u>Q15/S020</u> <u>2010</u> |
| 2. <u>SB-15</u> <u>14.5-15</u> | | | <u>1</u> | <u>6040</u> | | | | | | | | X | |
| 3. <u>SB-15</u> <u>15.5-16</u> | | | <u>1</u> | <u>6041</u> | | | | | | | | X | |
| <u>SB-15</u> <u>17.5-18</u> | | | <u>1</u> | <u>2020010</u> | X | | X | X | | | | | |
| <u>SB-15</u> <u>20-20.5</u> | | | <u>1</u> | | | | | | | | | X | |
| <u>SB-15</u> <u>22-22.5</u> | | | <u>1</u> | | | | | | | | | X | |
| <u>SB-15</u> <u>23.5-24</u> | | | <u>1</u> | | | | | | | | | X | |
| <u>SB-15</u> <u>25-25.5</u> | | | <u>1</u> | <u>2020011</u> | X | | X | X | | | | | |
| <u>SB-15</u> <u>26.5-28</u> | | | <u>1</u> | | | | | | | | | X | |
| <u>SB-15</u> <u>29-29.5</u> | | | <u>1</u> | | | | | | | | | X | |

| | | | | | |
|-------------------------------------|---------------------|--------------------|---------------------------------|---------------------|----------------------|
| Relinquished By: <u>[Signature]</u> | Date: <u>2-3-92</u> | Time: <u>10:55</u> | Received By: <u>[Signature]</u> | Date: <u>2-3-92</u> | Time: <u>2:20 PM</u> |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: |

Method of Shipment



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

OCT 30 1991


| | | |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Alon Geoscience 1000 Burnett Street, Suite 140 Concord, CA 94520 Attention: Jerry Nieder-Westermann | Client Project ID: Former Mobil #10H6J-Pleasanton Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 110-1039 | Sampled: Oct 24, 1991 Received: Oct 25, 1991 Analyzed: 10/25-28/91 Reported: Oct 28, 1991 |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|---------------------------------------------|------------------------|------------------------|------------------------------|------------------------|
| 110-1039 | PS-7@6' | N.D. | N.D. | N.D. | N.D. | N.D. |
| 110-1040 | PS-7@10" | 11 | 0.041 | 0.015 | 0.47 | 1.5 |
| 110-1041 | PS-7@13" | 17 | 0.11 | 0.76 | 0.65 | 2.0 |
| 110-1044 | PS-9@11' | 16 | 0.12 | 0.0040 | 0.51 | 1.2 |
| 110-1046 | PS-10@3" | 4.3 | 0.0064 | 0.064 | N.D. | 0.38 |
| 110-1050 | PS-11@14' | N.D. | N.D. | N.D. | N.D. | N.D. |
| 110-1051 | SP-7 A,B,C,D* | 1.7 | 0.0093 | 0.082 | 0.0073 | 0.044 |

| | | | | | |
|--------------------------|-----|--------|--------|--------|--------|
| Detection Limits: | 1.0 | 0.0050 | 0.0050 | 0.0050 | 0.0050 |
|--------------------------|-----|--------|--------|--------|--------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

 Julia R. Malerstein
 Project Manager

Please Note:
 * The above samples appear to contain gasoline.



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| | | |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Alton Geoscience 1000 Burnett Street, Suite 140 Concord, CA 94520 Attention: Jerry Nieder-Westermann | Client Project ID: Former Mobil #10H6J-Pleasanton Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 110-1042 | Sampled: Oct 24, 1991 Received: Oct 25, 1991 Analyzed: 10/25-28/91 Reported: Oct 28, 1991 |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|

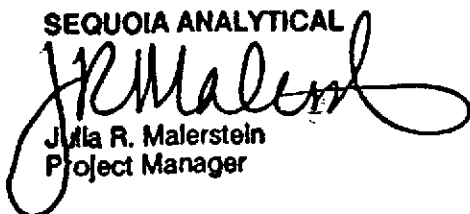
TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|---------------------------------------------|------------------------|------------------------|------------------------------|------------------------|
| 110-1042 | PS-8@8.5" | 4,000 | 2.6 | 130 | 100 | 650 |
| 110-1043 | PS-8@13" | 630 | 2.3 | 40 | 16 | 93 |

| | | | | | |
|-------------------|-----|------|------|------|------|
| Detection Limits: | 100 | 0.50 | 0.50 | 0.50 | 0.50 |
|-------------------|-----|------|------|------|------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL


Julia R. Malerstein
Project Manager

Please Note:

*The above samples appear to contain gasoline.



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Alton Geoscience
1000 Burnett Street, Suite 140
Concord, CA 94520
Attention: Jerry Nieder-Westermann

Client Project ID: Former Mobil #10H6J-Pleasanton
Matrix Descript: Soil
Analysis Method: EPA 5030/8015/8020
First Sample #: 110-1045

Sampled: Oct 24, 1991
Received: Oct 25, 1991
Analyzed: 10/25-28/91
Reported: Oct 28, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. | Benzene | Toluene | Ethyl | Xylenes |
|---------------|--------------------|--------------------------------|----------------|----------------|---------------------------|----------------|
| | | Hydrocarbons mg/kg (ppm) | mg/kg (ppm) | mg/kg (ppm) | Benzene mg/kg (ppm) | mg/kg (ppm) |
| 110-1045 | PS-9@14.5** | 310 | 0.88 | 15 | 9.6 | 50 |

| | | | | | |
|-------------------|----|-------|-------|-------|-------|
| Detection Limits: | 10 | 0.050 | 0.050 | 0.050 | 0.050 |
|-------------------|----|-------|-------|-------|-------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL


Julia R. Malerstein
Project Manager

Please Note:

*The above samples appear to contain gasoline.



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Alton Geoscience
1000 Burnett Street, Suite 140
Concord, CA 94520
Attention: Jerry Nieder-Westermann

Client Project ID: Former Mobil # 10H6J-Pleasanton
Matrix Descript: Soil
Analysis Method: EPA 5030/8015/8020
First Sample #: 110-1047

Sampled: Oct 24, 1991
Received: Oct 25, 1991
Analyzed: 10/25-28/91
Reported: Oct 28, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|------------------------------------------------|---------------------------|---------------------------|---------------------------------|---------------------------|
| 110-1047 | PS-10@7 | 60 | 0.29 | N.D. | 0.82 | 6.7 |

| | | | | | |
|-------------------|-----|-------|-------|-------|-------|
| Detection Limits: | 5.0 | 0.025 | 0.025 | 0.025 | 0.025 |
|-------------------|-----|-------|-------|-------|-------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL


Julia R. Malerstein
Project Manager



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| | | |
|------------------------------------|--------------------------------------------------|------------------------|
| Alton Geoscience | Client Project ID: Former Mobil#10H6J-Pleasanton | Sampled: Oct 24, 1991 |
| 1000 Burnett Street, Suite 140 | Matrix Descript: Soil | Received: Oct 25, 1991 |
| Concord, CA 94520 | Analysis Method: EPA 5030/8015/8020 | Analyzed: 10/25-28/91 |
| Attention: Jerry Nieder-Westermann | First Sample #: 110-1048 | Reported: Oct 28, 1991 |

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. | Benzene | Toluene | Ethyl | Xylenes |
|---------------|--------------------|-----------------|---------|---------|---------|---------|
| | | Hydrocarbons | | | Benzene | |
| | | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| | | (ppm) | (ppm) | (ppm) | (ppm) | (ppm) |
| 110-1048 | PS-10@16* | 670 | 1.9 | 38 | 16 | 100 |

| | | | | | |
|--------------------------|-----------|-------------|-------------|-------------|-------------|
| Detection Limits: | 50 | 0.25 | 0.25 | 0.25 | 0.25 |
|--------------------------|-----------|-------------|-------------|-------------|-------------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

J. Malerstein
Julia R. Malerstein
Project Manager

Please Note:
*The above sample appears to contain gasoline.



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Alton Geoscience
1000 Burnett Street, Suite 140
Concord, CA 94520
Attention: Jerry Nieder-Westermann

Client Project ID: Former Mobil# 10H6J-Pleasanton
Matrix Descript: Soil
Analysis Method: EPA 5030/8015/8020
First Sample #: 110-1049

Sampled: Oct 24, 1991
Received: Oct 25, 1991
Analyzed: 10/25-28/91
Reported: Oct 28, 1991

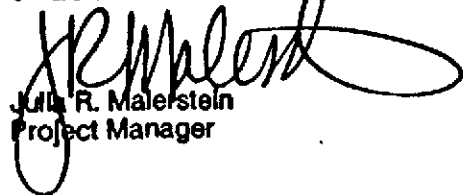
TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|------------------------------------------------|---------------------------|---------------------------|---------------------------------|---------------------------|
| 110-1049 | PS-11@2 | N.D. | N.D. | 0.16 | N.D. | 0.050 |

| | | | | | |
|-------------------|-----|-------|-------|-------|-------|
| Detection Limits: | 2.5 | 0.013 | 0.013 | 0.013 | 0.013 |
|-------------------|-----|-------|-------|-------|-------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL


Julie R. Malerstein
Project Manager



SEQUOIA ANALYTICAL

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Alton Geoscience
1000 Burnett Street, Suite 140
Concord, CA 94520
Attention: Jerry Nieder-Westermann

Client Project ID: Former Mobil# 10H6J-Pleasanton

QC Sample Group: 1101039-51

Reported: Oct 28, 1991

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl-Benzene | Xylenes |
|------------------------------------|---------------|---------------|---------------|---------------|
| Method: | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 |
| Analyst: | R.H./J.F. | R.H./J.F. | R.H./J.F. | R.H./J.F. |
| Reporting Units: | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Date Analyzed: | Oct 25, 1991 | Oct 25, 1991 | Oct 25, 1991 | Oct 25, 1991 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank | Matrix Blank |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 0.4 | 0.4 | 0.4 | 1.2 |
| Conc. Matrix Spike: | 0.37 | 0.35 | 0.34 | 1.2 |
| Matrix Spike % Recovery: | 92 | 88 | 85 | 100 |
| Conc. Matrix Spike Dup.: | 0.37 | 0.35 | 0.34 | 1.2 |
| Matrix Spike Duplicate % Recovery: | 92 | 88 | 85 | 100 |
| Relative % Difference: | 0 | 0 | 0 | 0 |

Laboratory blank contained the following analytes: None Detected

SEQUOIA ANALYTICAL

by Arthur G. Burton
Arthur G. Burton
Laboratory Director

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



ALTON GEOSCIENCE
 1000 BURNETT ST., #140
 CONCORD, CA 94520 (415) 682-1582

CHAIN of CUSTODY RECORD

PAGE 1 of 2

DATE: 10/24/91

RESULTS DUE BY: 10/27/91

PROJECT NUMBER: 30-0065

PROJECT NAME AND ADDRESS: Former Mobil Station 10-H67
Pleasanton, CA

PROJECT MANAGER: CHERIE D'ANDREA

SAMPLER'S SIGNATURE: Cheri D'Andrea

LABORATORY: Sequoia Anal.

REMARKS OR SPECIAL INSTRUCTIONS:

DIRECT BILLING TO MOBIL OIL
24 HR RUSH (Report on Monday)
* Analyze TABCD as one composite sample
 NOTE: PLEASE INDICATE VERBAL REQUESTS FOR ADDITIONAL ANALYSES IN THIS BOX

| SAMPLE NUMBER | SAMPLE DATE/TIME | LOCATION/ DESCRIPTION | SAMPLE MATERIAL | SAMPLE TYPE: | | NUMBER OF CONTAINERS <i>tubes</i> <i>15x1"</i> | SAMPLE PREP. | | | SOIL ANALYSIS | | | | WATER ANALYSIS | | | | |
|-------------------|-----------------------|------------------------|-----------------|--------------|-------|------------------------------------------------------|-------------------|------------------|--------------------|------------------|-------------------|----------------------|-----------------------|----------------|------------------|------------------|-----------|-----------------------|
| | | | | GRAB | COMP. | | 3510: SOLV. EXTR. | 3810: HEAD SPACE | 5030: PURGE & TRAP | 418.1: TPHC (IR) | 8010: HALOCARBONS | 8020: BTXE/TPHC (GC) | DHS METHOD: TPHC (GC) | 7420: TOTAL Pb | 418.1: TPHC (IR) | 601: HALOCARBONS | 602: BTXE | DHS METHOD: TPHC (GC) |
| <u>PS-7026'</u> | <u>10/24/91 11:00</u> | <u>Pipeline Trench</u> | <u>Soil</u> | <u>X</u> | | <u>1</u> | | | | | <u>X</u> | | | | | | | <u>1101039</u> |
| <u>PS-7010'</u> | <u>10/24/91 11:20</u> | <u>Pipeline Trench</u> | | | | <u>1</u> | | | | | | | | | | | | <u>1040</u> |
| <u>PS-7013'</u> | <u>10/24/91 11:40</u> | <u>Pipeline Trench</u> | | | | <u>1</u> | | | | | | | | | | | | <u>1041</u> |
| <u>PS-80285'</u> | <u>10/24/91 11:50</u> | | | | | <u>1</u> | | | | | | | | | | | | <u>1042</u> |
| <u>PS-8013'</u> | <u>10/24/91 12:10</u> | | | | | <u>1</u> | | | | | | | | | | | | <u>1043</u> |
| <u>PS-9011'</u> | <u>10/24/91 1:20</u> | | | | | <u>1</u> | | | | | | | | | | | | <u>1044</u> |
| <u>PS-9014.5'</u> | <u>10/24/91 1:30</u> | | | | | <u>1</u> | | | | | | | | | | | | <u>1045</u> |
| <u>PS-0023'</u> | <u>10/24/91 1:50</u> | | | | | <u>1</u> | | | | | | | | | | | | <u>1046</u> |
| <u>PS-1007'</u> | <u>10/24/91 2:10</u> | | | | | <u>1</u> | | | | | | | | | | | | <u>1047</u> |

TOTAL NO. OF CONTAINERS:

RELINQUISHED BY:
Cheri D'Andrea 11:25
10/25/91
 RELINQUISHED BY:
Russell G... 1200
10/25/91
 RELINQUISHED BY:

RECEIVED BY:
Russell G...
 RECEIVED BY:
[Signature]
 RECEIVED BY:

DATE/TIME: 11:25
10/25/91
 DATE/TIME:
10/25/91 1200
 DATE/TIME:

METHOD OF SHIPMENT:
 SHIPPED BY:
 COURIER:



ALTON GEOSCIENCE
 1000 BURNETT ST., #140
 CONCORD, CA 94520 (415) 882-1582

CHAIN of CUSTODY RECORD

DATE: 10/24/91

RESULTS DUE BY: 10/27/91

PROJECT NUMBER: **30-0065**

PROJECT NAME AND ADDRESS: **Former Mobil Station 10-M65
 1024 Main St., Pleasanton**

PROJECT MANAGER: **CHEMIE D'ANDREA**

SAMPLER'S SIGNATURE: **Cherie D'Andrea**

LABORATORY: **Sequoia Analy.**

REMARKS OR SPECIAL INSTRUCTIONS:

**DIRECT BILLING TO MOBIL OIL
 24 HR RUSH - (Report on Monday)
 * Analyze 7 ABCD as one composite sample**

NOTE: PLEASE INDICATE VERBAL REQUESTS FOR ADDITIONAL ANALYSES IN THIS BOX

| SAMPLE NUMBER | SAMPLE DATE/TIME | LOCATION/ DESCRIPTION | SAMPLE MATERIAL | SAMPLE TYPE: | | NUMBER OF CONTAINERS | SAMPLE PREP. | | | SOIL ANALYSIS | | | | WATER ANALYSIS | | | | | | |
|---------------|------------------|-----------------------|-----------------|--------------|-------|--------------------------------------------|-------------------|------------------|--------------------|------------------|-------------------|-------------------------|-----------------------|----------------|------------------|------------------|-----------|-----------------------|----------------|--|
| | | | | GRAB | COMP. | | 3510: SOLV. EXTR. | 3810: HEAD SPACE | 5030: PURGE & TRAP | 418.1: TPHC (IR) | 8010: HALOCARBONS | 8020: BTXE / TPH-G & GC | DHS METHOD: TPHC (GC) | 7420: TOTAL Pb | 418.1: TPHC (IR) | 601: HALOCARBONS | 602: BTXE | DHS METHOD: TPHC (GC) | 7421: TOTAL Pb | |
| PS-10e16' | 10/24/91 2:30 | Pipeline Trench | Soil | X | | 1 | | | | | | | | | | | | | | |
| PS-11e2' | 10/24/91 2:50 | ↓ | ↓ | X | | 1 | | | | | | | | | | | | | 1101048 | |
| PS-11e14' | 10/24/91 3:10 | ↓ | ↓ | X | | 1 | | | | | | | | | | | | | 1049 | |
| | | | | | | | | | | | | | | | | | | | 1050 | |
| QR-7A | 10/24/91 3:30 | Stack Pile Soil | Soil | | X | 4 | | | | | | | | | | | | | 1101051 A-D | |
| SP-7B | 10/24/91 3:35 | ↓ | ↓ | | X | Composite of 4 samples to analyze per site | | | | | | | | | | | | | | |
| SP-7C | 10/24/91 3:40 | ↓ | ↓ | | X | | | | | | | | | | | | | | | |
| SP-7D | 10/24/91 3:45 | ↓ | ↓ | | X | | | | | | | | | | | | | | | |

TOTAL NO. OF CONTAINERS:

RELINQUISHED BY:
Cherie D'Andrea 10/25/91
Russell Soode 10/25/91

RECEIVED BY:
Russell Soode
Russell Soode

DATE/TIME: 10/25/91
 10/25/91 12:00

METHOD OF SHIPMENT:
 SHIPPED BY:
 COURIER:



SEQUOIA ANALYTICAL

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NOV 05 1991

| | | |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Alton Geoscience 1000 Burnett Avenue, Suite 140 Concord, CA 94520 Attention: Cherie D'Andrea | Client Project ID: Mobil# 10-H6J-1024 Main St., Pleasanton Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 110-1081 | Sampled: Oct 25, 1991 Received: Oct 28, 1991 Analyzed: Oct 28, 1991 Reported: Oct 29, 1991 |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|

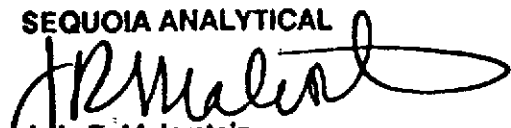
TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|---------------------------------------------|------------------------|------------------------|------------------------------|------------------------|
| 110-1081 | PS-12@3' | N.D. | N.D. | N.D. | N.D. | N.D. |
| 110-1082 | PS-12@13.5' | N.D. | N.D. | N.D. | N.D. | N.D. |
| 110-1083 | PS-12@15' | N.D. | N.D. | N.D. | N.D. | N.D. |
| 110-1084 | PS-14@5' | N.D. | N.D. | N.D. | N.D. | N.D. |
| 110-1085 | PS-14@10.0' | 3.3 | 0.029 | 0.016 | 0.027 | 0.073 |
| 110-1086 | PS-14@14' | 1.1 | N.D. | N.D. | 0.0064 | 0.018 |
| 110-1089 | PS-17@5.0' | N.D. | N.D. | N.D. | N.D. | N.D. |
| 110-1090 | PS-17@10' | 1.3 | N.D. | N.D. | N.D. | N.D. |
| 110-1091 | PS-17@14' | 2.5 | N.D. | N.D. | 0.024 | 0.027 |
| 110-1092 | PS-18@2' | N.D. | N.D. | N.D. | N.D. | N.D. |

| | | | | | |
|--------------------------|-----|--------|--------|--------|--------|
| Detection Limits: | 1.0 | 0.0050 | 0.0050 | 0.0050 | 0.0050 |
|--------------------------|-----|--------|--------|--------|--------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL



Julia R. Malerstein
Project Manager



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

| | | |
|--------------------------------|------------------------------------------------------------|------------------------|
| Alton Geoscience | Client Project ID: Mobil# 10-H6J-1024 Main St., Pleasanton | Sampled: Oct 25, 1991 |
| 1000 Burnett Avenue, Suite 140 | Matrix Descript: Soil | Received: Oct 28, 1991 |
| Concord, CA 94520 | Analysis Method: EPA 5030/8015/8020 | Analyzed: Oct 28, 1991 |
| Attention: Cherie D'Andrea | First Sample #: 110-1093 | Reported: Oct 29, 1991 |

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|---------------------------------------------|------------------------|------------------------|------------------------------|------------------------|
| 110-1093 | PS-18@5' | N.D. | N.D. | N.D. | N.D. | N.D. |
| 110-1094 | PS-18@7' | N.D. | N.D. | N.D. | N.D. | N.D. |
| 110-1095 | PS-18@10' | 22 | 0.011 | 0.062 | 0.097 | 0.74 |
| 110-1096 | PS-18@14' | N.D. | N.D. | N.D. | N.D. | N.D. |

| | | | | | |
|--------------------------|------------|---------------|---------------|---------------|---------------|
| Detection Limits: | 1.0 | 0.0050 | 0.0050 | 0.0050 | 0.0050 |
|--------------------------|------------|---------------|---------------|---------------|---------------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection.

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Julia R. Malerstein
Project Manager



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Alton Geoscience
1000 Burnett Avenue, Suite 140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: Mobil # 10-H6J-1024 Main St., Pleasanton
Matrix Descript: Soil
Analysis Method: EPA 5030/8015/8020
First Sample #: 110-1087

Sampled: Oct 25, 1991
Received: Oct 28, 1991
Analyzed: Oct 28, 1991
Reported: Oct 29, 1991

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|------------------------------------------------|---------------------------|---------------------------|---------------------------------|---------------------------|
| 110-1087 | PS-16@8' | 1,500 | N.D. | 38 | 59 | 310 |

Detection Limits:

50

0.25

0.25

0.25

0.25

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL


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Project Manager



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| | | |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Alton Geoscience 1000 Burnett Avenue, Suite 140 Concord, CA 94520 Attention: Cherie D'Andrea | Client Project ID: Mobil# 10-H6J-1024 Main St., Pleasanton Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 110-1088 | Sampled: Oct 25, 1991 Received: Oct 28, 1991 Analyzed: Oct 28, 1991 Reported: Oct 29, 1991 |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|------------------------------------------------|---------------------------|---------------------------|---------------------------------|---------------------------|
| 110-1088 | PS-16@12.5' | 2,900 | 10 | 360 | 120 | 560 |

| | | | | | |
|-------------------|-----|------|------|------|------|
| Detection Limits: | 100 | 0.50 | 0.50 | 0.50 | 0.50 |
|-------------------|-----|------|------|------|------|

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL


Julie R. Malerstein
Project Manager



SEQUOIA ANALYTICAL

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Alton Geoscience
1000 Burnett Avenue, Suite 140
Concord, CA 94520
Attention: Cherle D'Andrea

Client Project ID: Mobil# 10-H6J-1024 Main St., Pleasanton

QC Sample Group: 1101081-96

Reported: Oct 29, 1991

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl-Benzene | Xylenes |
|------------------------------------|---------------|---------------|---------------|---------------|
| Method: | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 |
| Analyst: | R.H./J.F. | R.H./J.F. | R.H./J.F. | R.H./J.F. |
| Reporting Units: | ug/L | ug/L | ug/L | ug/L |
| Date Analyzed: | Oct 26, 1991 | Oct 26, 1991 | Oct 26, 1991 | Oct 26, 1991 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank | Matrix Blank |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 0.40 | 0.40 | 0.40 | 1.2 |
| Conc. Matrix Spike: | 0.40 | 0.41 | 0.43 | 1.3 |
| Matrix Spike % Recovery: | 100 | 102 | 108 | 108 |
| Conc. Matrix Spike Dup.: | 0.42 | 0.42 | 0.44 | 1.3 |
| Matrix Spike Duplicate % Recovery: | 105 | 105 | 110 | 108 |
| Relative % Difference: | 4.9 | 2.4 | 2.3 | 0 |

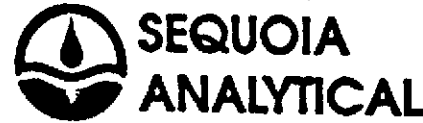
Laboratory blank contained the following analytes: None Detected

SEQUOIA ANALYTICAL


Julia R. Malerstein
Project Manager

| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |

Mobil Chain of Custody



Redwood City: (415) 364-9600
 Concord: (510) 686-9600
 Sacramento: (916) 921-9600

| | | | |
|---------------------------------------------|--------------------------------------------|-----------------------------------------------------|---------------------------------------------|
| Consulting Firm Name: <i>Atm Geoscience</i> | | Site SS #: <i>18-H&T</i> | Phase of Work: |
| Address: <i>728 Oxford Circle</i> | | Mobil Site Address: <i>1024 Main St, Pleasanton</i> | <input type="checkbox"/> A. Emrg. Response |
| City: <i>Dublin</i> | State: <i>CA</i> | Zip Code: <i>94520</i> | <input type="checkbox"/> B. Site Assessment |
| Telephone: <i>(510) 682-1582</i> | FAX #: <i>(682-8921)</i> | Mobil Engineer: <i>Mr. Ed. Hrepek</i> | <input type="checkbox"/> C. Remediation |
| Project Contact: <i>Cherie D'Andrea</i> | Sampled by: <i>Gerry Nieder-Westermann</i> | Consultant Project #: <i>30-0065</i> | <input type="checkbox"/> D. Monitoring |
| | | Sequoia's Work Order Release #: | <input type="checkbox"/> E. OGC/Claims |

Turnaround Time: Standard TAT (5 - 10 Working Days) *pg 2 of 3*
 Other *24 hr Rush*

| Client Sample I.D. | Date/Time Sampled | Matrix Description | # of Containers | Sequoia's Sample # | Analyses Requested | | | | | Comments |
|----------------------------|---------------------|--------------------|-----------------|--------------------|--------------------|------------|------------------------|------------------------|--|----------|
| | | | | | TPH Gas/BTEX | TPH Diesel | TRPH by I.R. EPA 418.1 | Oil & Grease EPA 413.2 | | |
| 1. PS-16 @ 4.5' | 10/25/91 | Soil | 1 | | X | | | | | |
| ✓ 2. PS-16 @ 8' | 11:40 | | | | | | | | | 1101087 |
| ✓ 3. PS-16 @ 12.5' | 11:50 | | | | | | | | | 88 |
| ✓ 4. PS-17 @ 5' | 12:10 | | | | | | | | | 89 |
| ✓ 5. PS-17 @ 10' | 1:20 | | | | | | | | | 90 |
| ✓ 6. PS-17 @ 14' | 1:30 | | | | | | | | | 91 |
| ✓ 7. PS-18 @ 2' | 1:40 | | | | | | | | | 92 |
| ✓ 8. PS-18 @ 5' | 1:50 | | | | | | | | | 93 |
| ✓ 9. PS-18 @ 7' | 2:00 | | | | | | | | | 94 |
| ✓ 10. PS-18 @ 10' | 2:10 | | | | | | | | | 95 |

| | | | | | |
|-------------------------------------|-----------------------|-------------------|-----------------------------------|--------------------|-------------------|
| Relinquished By: <i>Bob Melson</i> | Date: <i>10/25/91</i> | Time: <i>5:00</i> | Received By: <i>M. Mitchell</i> | Date: <i>10-25</i> | Time: <i>1800</i> |
| Relinquished By: <i>M. Mitchell</i> | Date: <i>10-25</i> | Time: <i>6:30</i> | Received By: <i>Bob Melson</i> | Date: <i>10-25</i> | Time: <i>1800</i> |
| Relinquished By: <i>Bob Melson</i> | Date: <i>10/25</i> | Time: <i>7:25</i> | Received By: <i>John Martinez</i> | Date: <i>10/25</i> | Time: <i>1930</i> |

Method of Shipment: _____

Mobil Chain of Custody



Redwood City: (415) 364-9600
 Concord: (510) 686-9600
 Sacramento: (916) 921-9600

| | | | |
|------------------------------------------|------------------|------------------------------------------------------|---------------------------------------------|
| Consulting Firm Name: <u>Atmoscience</u> | | Site SS #: <u>10-H6J</u> | Phase of Work: |
| Address: <u>7528 Oxford Circle</u> | | Mobil Site Address: <u>1024 Main St., Pleasanton</u> | <input type="checkbox"/> A. Emrg. Response |
| City: <u>Dublin</u> | State: <u>CA</u> | Zip Code: <u>94520</u> | <input type="checkbox"/> B. Site Assessment |
| Telephone: <u>(910) 682-1582</u> | | FAX #: <u>682-8921</u> | <input type="checkbox"/> C. Remediation |
| Project Contact: <u>Cherie D'Andrea</u> | | Sampled by: <u>Cenny Nieder-Westermann</u> | <input type="checkbox"/> D. Monitoring |
| | | Mobil Engineer: <u>Ed Hoepker</u> | <input type="checkbox"/> E. OGC/Claims |
| | | Consultant Project #: <u>30-0065</u> | |
| | | Sequoia's Work Order Release #: | |

Turnaround Time: Standard TAT (5 - 10 Working Days)

Other 24 hr Rush

Pg 3 of 3

Analyses Requested

| Client Sample I.D. | Date/Time Sampled | Matrix Description | # of Containers | Sequoia's Sample # | Analyses Requested | | | | | Comments |
|------------------------|----------------------|--------------------|-----------------|--------------------|--------------------|------------|-----------------------|------------------------|--|----------------|
| | | | | | TPH Gas/BTEX | TPH Diesel | TPH by I.R. EPA 418.1 | Oil & Grease EPA 413.2 | | |
| <u>✓ 1. P-18 @ 14'</u> | <u>10/25/91 2:30</u> | <u>Soil</u> | <u>1</u> | | <u>X</u> | | | | | <u>1101096</u> |
| 2. | | | | | | | | | | |
| 3. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| 5. | | | | | | | | | | |
| 6. | | | | | | | | | | |
| 7. | | | | | | | | | | |
| 8. | | | | | | | | | | |
| 9. | | | | | | | | | | |
| 10. | | | | | | | | | | |

| | | | | | |
|-------------------------------------|-----------------------|--------------------|---------------------------------|---------------------|--------------------|
| Relinquished By: <u>[Signature]</u> | Date: <u>10/25/91</u> | Time: <u>5:00</u> | Received By: <u>[Signature]</u> | Date: <u>10-25</u> | Time: <u>1800</u> |
| Relinquished By: <u>[Signature]</u> | Date: <u>10-2</u> | Time: | Received By: <u>[Signature]</u> | Date: <u>10-2-5</u> | Time: <u>18:00</u> |
| Relinquished By: <u>[Signature]</u> | Date: <u>10-25</u> | Time: <u>19:25</u> | Received By: <u>[Signature]</u> | Date: <u>10/25</u> | Time: <u>1930</u> |

Method of Shipment _____

Mobil Chain of Custody



SEQUOIA ANALYTICAL

Redwood City: (415) 364-9600
 Concord: (510) 686-9600
 Sacramento: (916) 921-9600

| | | |
|----------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|
| Consulting Firm Name: <u>Alton Concurrence</u> | Site SS #: <u>10-AGJ</u> | Phase of Work: |
| Address: <u>1000 Burnett Ave, Ste 140</u> | Mobil Site Address: <u>1024 Main St. Pleasanton</u> | <input type="checkbox"/> A. Emrg. Response |
| City: <u>Concord</u> State: <u>CA</u> Zip Code: <u>94520</u> | Mobil Engineer: <u>Ed Hoepner</u> | <input type="checkbox"/> B. Site Assessment |
| Telephone: <u>(510) 682-1582</u> FAX #: <u>(510) 682-8421</u> | Consultant Project #: <u>30-0065</u> | <input type="checkbox"/> C. Remediation |
| Project Contact: <u>Cherie Anderson</u> <u>Geary Nierhoff-Lester</u> | Sequola's Work Order Release #: | <input type="checkbox"/> D. Monitoring |
| Sampled by: | | <input type="checkbox"/> E. OGC/Claims |

Turnaround Time: Standard TAT (5 - 10 Working Days) pg 1 of 3
 Other 34 hr

Analyses Requested

| Client Sample I.D. | Date/Time Sampled | Matrix Description | # of Containers | Sequola's Sample # | Analyses Requested | | | | | Comments |
|-----------------------------|-------------------|--------------------|-----------------|--------------------|--------------------|------------|-----------------------|------------------------|----------------------|----------|
| | | | | | TPH Gas/BTEX | TPH Diesel | TPH by I.R. EPA 418.1 | Oil & Grease EPA 413.2 | TPH Total | |
| ✓ 1. PS-12 e 3' | 10/25/91 10:00 | Soil | 1 | | X | | | | | 1101081 |
| ✓ 2. PS-12 e 12.5' | 10:10 | | 1 | | X | | | | | 82 |
| ✓ 3. PS-12 e 15' | 10:20 | | 1 | | X | | | | | 83 |
| 4. PS-12 e 17.5' | 10:30 | | 1 | | | | | | | |
| ✓ 5. PS-12 e 20' | 10:40 | | 1 | | | | | | | |
| ✓ 6. PS-14 e 5' | 10:50 | | 1 | | X | | | | | 1101084 |
| ✓ 7. PS-14 e 10' | 11:00 | | 1 | | X | | | | | 85 |
| ✓ 8. PS-14 e 14' | 11:10 | | 1 | | X | | | | | 86 |
| 9. PS-14 e 17.5' | 11:20 | | 1 | | | | | | | |
| 10. PS-14 e 20' | 11:30 | | 1 | | | | | | | |

| | | | | | |
|-------------------------------------|-----------------------|--------------------|---------------------------------|--------------------|--------------------|
| Relinquished By: <u>[Signature]</u> | Date: <u>10/25/91</u> | Time: <u>5:00</u> | Received By: <u>[Signature]</u> | Date: <u>10-25</u> | Time: <u>18:00</u> |
| Relinquished By: <u>[Signature]</u> | Date: <u>10-25</u> | Time: <u>6:30</u> | Received By: <u>[Signature]</u> | Date: <u>10-25</u> | Time: <u>18:00</u> |
| Relinquished By: <u>[Signature]</u> | Date: <u>10-25</u> | Time: <u>19:25</u> | Received By: <u>[Signature]</u> | Date: <u>10/25</u> | Time: <u>19:30</u> |

Method of Shipment _____



SEQUOIA ANALYTICAL

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Alton Geoscience
1000 Burnett Ave., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: Mobil #10-H6J/30-0065-05
Matrix Descript: Soil
Analysis Method: EPA 5030/8015/8020
First Sample #: 201-0624

Sampled: Jan 21, 1992
Received: Jan 22, 1992
Analyzed: 1/24, 1/27/92
Reported: Jan 30, 1992

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

| Sample Number | Sample Description | Low/Medium B.P. Hydrocarbons mg/kg (ppm) | Benzene mg/kg (ppm) | Toluene mg/kg (ppm) | Ethyl Benzene mg/kg (ppm) | Xylenes mg/kg (ppm) |
|---------------|--------------------|------------------------------------------|---------------------|---------------------|---------------------------|---------------------|
| 201-0624 | SB-14 3-3.5 | N.D. | N.D. | N.D. | N.D. | N.D. |
| 201-0625 | SB-14 6-6.5 | N.D. | N.D. | N.D. | N.D. | N.D. |
| 201-0626 | SB-15 3-3.5 | N.D. | N.D. | N.D. | N.D. | N.D. |
| 201-0627 | SB-15 6-6.5 | N.D. | N.D. | N.D. | N.D. | N.D. |

Detection Limits:

1.0

0.0050

0.0050

0.0050

0.0050

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL


Scott A. Chleffo
Project Manager



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Alton Geoscience
1000 Burnett Ave., #140
Concord, CA 94520
Attention: Cherle D'Andrea

Client Project ID: Mobil #10-H6J/30-0065-05
Matrix Descript: Soil
Analysis Method: EPA 413.2 (I.R.)
First Sample #: 201-0625

Sampled: Jan 21, 1992
Received: Jan 22, 1992
Extracted: Jan 29, 1992
Analyzed: Jan 29, 1992
Reported: Jan 30, 1992

TOTAL RECOVERABLE OIL & GREASE

| Sample Number | Sample Description | Oil & Grease mg/kg (ppm) |
|---------------|--------------------|--------------------------------|
| 201-0625 | SB-14 6-6.5 | N.D. |

Detection Limits:

3.3

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Scott A. Chieffo
Project Manager



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Alton Geoscience
1000 Burnett Ave., #140
Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: Mobil #10-H6J/30-0065-05
Sample Descript: Soil, SB-14 6-6.5
Analysis Method: EPA 5030/8010
Lab Number: 201-0625

Sampled: Jan 21, 1992
Received: Jan 22, 1992
Analyzed: Jan 27, 1992
Reported: Jan 30, 1992

HALOGENATED VOLATILE ORGANICS (EPA 8010)

| Analyte | Detection Limit µg/kg | Sample Results µg/kg |
|--------------------------------|--------------------------|-------------------------|
| Bromodichloromethane..... | 5.0 | N.D. |
| Bromoform..... | 10 | N.D. |
| Bromomethane..... | 10 | N.D. |
| Carbon tetrachloride..... | 5.0 | N.D. |
| Chlorobenzene..... | 5.0 | N.D. |
| Chloroethane..... | 10 | N.D. |
| 2-Chloroethylvinyl ether..... | 10 | N.D. |
| Chloroform..... | 5.0 | N.D. |
| Chloromethane..... | 10 | N.D. |
| Dibromochloromethane..... | 5.0 | N.D. |
| 1,2-Dichlorobenzene..... | 5.0 | N.D. |
| 1,3-Dichlorobenzene..... | 5.0 | N.D. |
| 1,4-Dichlorobenzene..... | 5.0 | N.D. |
| 1,1-Dichloroethane..... | 5.0 | N.D. |
| 1,2-Dichloroethane..... | 5.0 | N.D. |
| 1,1-Dichloroethene..... | 5.0 | N.D. |
| cis-1,2-Dichloroethene..... | 5.0 | N.D. |
| trans-1,2-Dichloroethene..... | 5.0 | N.D. |
| 1,2-Dichloropropane..... | 5.0 | N.D. |
| cis-1,3-Dichloropropene..... | 10 | N.D. |
| trans-1,3-Dichloropropene..... | 10 | N.D. |
| Methylene chloride..... | 20 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 5.0 | N.D. |
| Tetrachloroethene..... | 5.0 | N.D. |
| 1,1,1-Trichloroethane..... | 5.0 | N.D. |
| 1,1,2-Trichloroethane..... | 5.0 | N.D. |
| Trichloroethene..... | 5.0 | N.D. |
| Trichlorofluoromethane..... | 10 | N.D. |
| Vinyl chloride..... | 10 | N.D. |

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Scott A. Chieffo
Scott A. Chieffo
Project Manager



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(510) 686-9600 • FAX (510) 686-9689

Alton Geoscience
1000 Burnett Ave., #140
Concord, CA 94520
Attention: Cherle D'Andrea

Client Project ID: Mobil #10-H6J/30-0065-05
Sample Descript: Soil, SB-14 6-6.5
Lab Number: 201-0625

Sampled: Jan 21, 1992
Received: Jan 22, 1992
Extracted: 1/22-1/24/92
Reported: Jan 30, 1992

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Soluble Threshold Limit Concentration
Waste Extraction Test

Total Threshold Limit Concentration

| Analyte | STLC Max. Limit (mg/L) | Detection Limit (mg/L) | Analysis Result (mg/L) | TTL Max. Limit (mg/kg) | Detection Limit (mg/kg) | Analysis Result (mg/kg) |
|----------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|
| Antimony | 15 | 0.050 | - | 500 | 5.0 | 13 |
| Arsenic | 5 | 0.010 | - | 500 | 5.0 | N.D. |
| Barium | 100 | 0.10 | 9.0 | 10,000 | 5.0 | 370 |
| Beryllium | 0.75 | 0.010 | - | 75 | 0.50 | 0.51 |
| Cadmium | 1 | 0.010 | - | 100 | 0.50 | N.D. |
| Chromium (VI) | 5 | 0.0050 | - | 500 | 0.050 | N.D. |
| Chromium (III) | 560 | 0.010 | - | 2,500 | 0.50 | 48 |
| Cobalt | 80 | 0.050 | - | 8,000 | 2.5 | 18 |
| Copper | 25 | 0.010 | 0.45 | 2,500 | 0.50 | 33 |
| Lead | 5.0 | 0.10 | N.D. | 1,000 | 5.0 | 11 |
| Mercury | 0.2 | 0.00020 | - | 20 | 0.010 | 0.050 |
| Molybdenum | 350 | 0.050 | - | 3,500 | 2.5 | N.D. |
| Nickel | 20 | 0.050 | 0.48 | 2,000 | 2.5 | 75 |
| Selenium | 1 | 0.010 | - | 100 | 5.0 | N.D. |
| Silver | 5 | 0.010 | - | 500 | 0.50 | N.D. |
| Thallium | 7 | 0.50 | - | 700 | 5.0 | N.D. |
| Vanadium | 24 | 0.050 | 0.18 | 2,400 | 2.5 | 39 |
| Zinc | 250 | 0.010 | - | 5,000 | 0.50 | 71 |
| Asbestos | - | 10 | - | 10,000 | 100 | - |
| Fluoride | 180 | 0.10 | - | 18,000 | 1.0 | - |

TTL results are reported as mg/kg of wet weight. Asbestos results are reported as fibers/g.
Analytes reported as N.D. were not present above the stated limit of detection.

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Project Manager



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Concord, CA 94520
Attention: Cherie D'Andrea

Client Project ID: Mobil #10-H6J/30-0065-05

QC Sample Group: 2010624-627

Reported: Jan 30, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | Benzene | Toluene | Ethyl-Benzene | Xylenes | Lead |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|
| Method: | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 | EPA 8015/8020 | EPA 200.7 |
| Analyst: | K.N. | K.N. | K.N. | K.N. | C. Medefesser |
| Reporting Units: | mg/kg | mg/kg | mg/kg | mg/kg | mg/L |
| Date Analyzed: | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 | Jan 27, 1992 |
| QC Sample #: | Matrix Blank | Matrix Blank | Matrix Blank | Matrix Blank | 201-2443 |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 0.40 | 0.40 | 0.40 | 1.2 | 1.0 |
| Conc. Matrix Spike: | 0.31 | 0.32 | 0.32 | 1.1 | 0.76 |
| Matrix Spike % Recovery: | 78 | 80 | 80 | 92 | 76 |
| Conc. Matrix Spike Dup.: | 0.33 | 0.33 | 0.34 | 1.2 | 0.83 |
| Matrix Spike Duplicate % Recovery: | 82 | 82 | 85 | 100 | 83 |
| Relative % Difference: | 6.2 | 3.1 | 6.0 | 8.6 | 8.8 |

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| | |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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QUALITY CONTROL DATA REPORT

| ANALYTE | 1,1-Dichloroethene | Trichloro-ethene | Chloro-benzene | 1,1-Dichloroethene | Trichloro-ethene | Chloro-benzene |
|------------------------------------|--------------------|------------------|----------------|--------------------|------------------|----------------|
| | Method: | EPA 8010 | EPA 8010 | EPA 8010 | EPA 8010 | EPA 8010 |
| Analyst: | A. Fulcher | A. Fulcher | A. Fulcher | M. Nguyen | M. Nguyen | M. Nguyen |
| Reporting Units: | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Date Analyzed: | Jan 27, 1992 | Jan 27, 1992 | Jan 27, 1992 | Jan 28, 1992 | Jan 28, 1992 | Jan 28, 1992 |
| QC Sample #: | Matix Blank | Matix Blank | Matix Blank | Matix Blank | Matix Blank | Matix Blank |
| Sample Conc.: | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Spike Conc. Added: | 5.0 | 5.0 | 5.0 | 10 | 10 | 10 |
| Conc. Matrix Spike: | 5.5 | 5.3 | 5.7 | 9.4 | 10 | 9.8 |
| Matrix Spike % Recovery: | 110 | 106 | 114 | 94 | 100 | 98 |
| Conc. Matrix Spike Dup.: | 6.0 | 6.4 | 6.0 | 8.2 | 10 | 9.8 |
| Matrix Spike Duplicate % Recovery: | 120 | 128 | 120 | 82 | 100 | 98 |
| Relative % Difference: | 8.7 | 19 | 5.1 | 14 | 0.0 | 0.0 |

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

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|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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QUALITY CONTROL DATA REPORT

| ANALYTE | Antimony | Barium | Beryllium | Cadmium | Chromium | Cobalt | Copper |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Method: | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 | EPA 6010 |
| Analyst: | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser |
| Reporting Units: | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Date Analyzed: | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 |
| QC Sample #: | 201-3003 | 201-3003 | 201-3003 | 201-3003 | 201-3003 | 201-3003 | 201-3003 |
| Sample Conc.: | 13 | 370 | 0.51 | N. D. | 48 | 18 | 33 |
| Spike Conc. Added: | 100 | 5000 | 100 | 100 | 100 | 100 | 100 |
| Conc. Matrix Spike: | 100 | 5700 | 92 | 92 | 140 | 110 | 150 |
| Matrix Spike % Recovery: | 87 | 107 | 91 | 92 | 92 | 92 | 117 |
| Conc. Matrix Spike Dup.: | 95 | 5100 | 92 | 89 | 140 | 110 | 150 |
| Matrix Spike Duplicate % Recovery: | 82 | 95 | 91 | 89 | 92 | 92 | 117 |
| Relative % Difference: | 5.1 | 11 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 |

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|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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QUALITY CONTROL DATA REPORT

| ANALYTE | Molybdenum | Nickel | Silver | Thallium | Vanadium | Zinc | Arsenic |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Method: | EPA 6010 | EPA 6010 | EPA 6010 | EPA 7841 | EPA 6010 | EPA 6010 | EPA 7060 |
| Analyst: | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser |
| Reporting Units: | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| Date Analyzed: | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 |
| QC Sample #: | 201-3003 | 201-3003 | 201-3003 | 201-3003 | 201-3003 | 201-3003 | 201-3003 |
| Sample Conc.: | N. D. | 75 | N. D. | N. D. | 39 | 71 | N. D. |
| Spike Conc. Added: | 100 | 100 | 100 | 100 | 100 | 100 | 5000 |
| Conc. Matrix Spike: | 94 | 160 | 99 | 110 | 150 | 150 | 4000 |
| Matrix Spike % Recovery: | 94 | 85 | 99 | 110 | 111 | 79 | 80 |
| Conc. Matrix Spike Dup.: | 94 | 160 | 99 | 110 | 150 | 150 | 4000 |
| Matrix Spike Duplicate % Recovery: | 94 | 85 | 99 | 110 | 110 | 79 | 80 |
| Relative % Difference: | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |



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QC Sample Group: 2010624-627

Reported: Jan 30, 1992

QUALITY CONTROL DATA REPORT

| ANALYTE | Selenium | Lead | Mercury | Barium | Copper | Nickel | Vanadium |
|------------------------------------|---------------|---------------|--------------|---------------|---------------|---------------|---------------|
| Method: | EPA 6010 | EPA 6010 | EPA 7471 | EPA 200.7 | EPA 200.7 | EPA 200.7 | EPA 200.7 |
| Analyst: | C. Medefesser | C. Medefesser | J. Martinez | C. Medefesser | C. Medefesser | C. Medefesser | C. Medefesser |
| Reporting Units: | mg/kg | mg/kg | mg/kg | mg/L | mg/L | mg/L | mg/L |
| Date Analyzed: | Jan 24, 1992 | Jan 24, 1992 | Jan 24, 1992 | Jan 27, 1992 | Jan 27, 1992 | Jan 27, 1992 | Jan 27, 1992 |
| QC Sample #: | 201-3003 | 201-3003 | 201-3003 | 201-2443 | 201-2443 | 201-2443 | 201-2443 |
| Sample Conc.: | N. D. | 11 | 0.050 | N. D. | 0.13 | N. D. | N. D. |
| Spike Conc. Added: | 5000 | 100 | 0.10 | 1.0 | 1.0 | 1.0 | 1.0 |
| Conc. Matrix Spike: | 4300 | 110 | 0.14 | 0.79 | 1.0 | 0.80 | 0.82 |
| Matrix Spike % Recovery: | 86 | 99 | 90 | 79 | 87 | 80 | 82 |
| Conc. Matrix Spike Dup.: | 4200 | 99 | 0.14 | 0.84 | 1.0 | 0.86 | 0.88 |
| Matrix Spike Duplicate % Recovery: | 84 | 88 | 90 | 84 | 87 | 86 | 88 |
| Relative % Difference: | 2.4 | 11 | 0.0 | 6.1 | 0.0 | 7.2 | 7.1 |

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|------------------------|------------------------------------------------------------------------------------------------------------------------|
| % Recovery: | $\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$ |
| Relative % Difference: | $\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$ |