

BP Amoco



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3960

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ENVIRONMENTAL
PROTECTION

August 25, 2000

Alameda County Health Care Services Department
Attention Mr. Scott Seery
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502-6577

RE: BP Oil Site No. 11117
7210 Bancroft Avenue (at 73rd)
Oakland, CA

Dear Mr. Seery:

This letter transmits the *Well Installation, Interim Remedial Action and Recovery Testing Report* prepared by Cambria Environmental Technology on behalf of BP.

Please give me a call at (425) 251-0689 if you have any comments or questions.

Sincerely,


Scott Hooton

attachment

cc: site file
D. Camille - Tosco (w/attachment)
Bancroft Oakland Investment Company, c/o SB Management Corporation, Attention Ms.
K. R. Stimson, 422 North Camden Drive, STE#1070, Beverly Hills, CA 90210
(w/attachment)
Khaled Rahman - Cambria

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WELL INSTALLATION, INTERIM REMEDIAL ACTION
AND
RECOVERY TESTING REPORT

Former BP Oil Site No. 11117
7210 Bancroft Avenue
Oakland, California
Cambria Project No. 852-1546-4

August 15, 2000

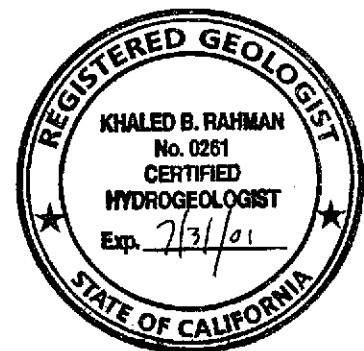


Prepared for:

BP Oil Company
Environmental Resources Management
295 SW 41st Street
Bldg. 13 STE N.
Renton, Washington 98055-4931

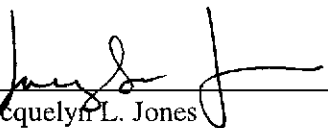
Prepared by:


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WELL INSTALLATION, INTERIM REMEDIAL ACTION
AND
RECOVERY TESTING REPORT

BP Oil Site No. 11117
7210 Bancroft Avenue
Oakland, California
Cambria Project No. 852-1546-4

August 15, 2000



INTRODUCTION

Cambria Environmental Technology, Inc. (Cambria) has prepared this *Well Installation, Interim Remedial Action and Recovery Testing Report* for the above-referenced BP Oil Company (BP) site. Presented below are the site background, the well installation activities, the interim remedial action activities, recovery testing activities, and our conclusions and recommendations.

SITE BACKGROUND

Site Description: The site is an active 76-branded gasoline retail outlet located at the north corner of Bancroft Avenue and 73rd Avenue in Oakland, California (see Figure 1). BP acquired the facility from Mobil Oil Corporation in 1989. In January 1994, BP transferred the property to TOSCO Marketing Company (TOSCO) and has not operated the facility since that time.

The site consists of a service station building and three 12,000-gallon gasoline underground storage tanks and one 10,000-gallon diesel underground storage tank with associated piping and dispensers. The site is covered with asphalt or concrete surfacing except for planters along the southeastern and southwestern property boundaries and at the north corner of the property (see Figure 2).

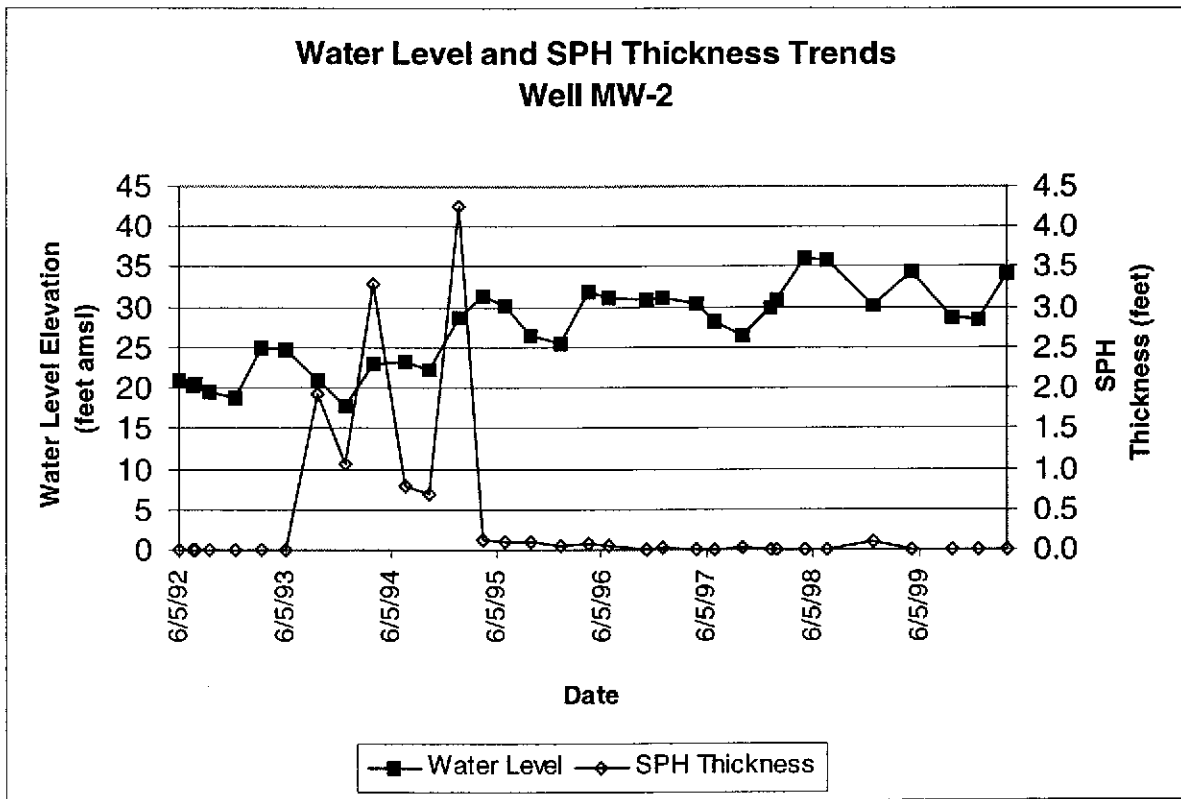
Previous Work: Prior to this investigation, nine monitoring wells were installed at the site: wells MW-1 through MW-4 and MW-6 through MW-10 (see Figure 2). Available information indicates that wells MW-1 and MW-2 were installed in 1991 and screen from approximately 20 to 40 feet below ground surface (bgs); well MW-3 was installed in 1989 and screens from 30 to 45 feet bgs; wells MW-4 and MW-6 were installed in 1992 and screen from approximately 20 to 40 feet bgs; and wells MW-7 through MW-9 were installed in 1994 and screen from approximately 25 to 40 or 45 feet bgs. One diesel and three gasoline underground storage tanks and associated dispensers and piping were removed and replaced by TOSCO in 1998.



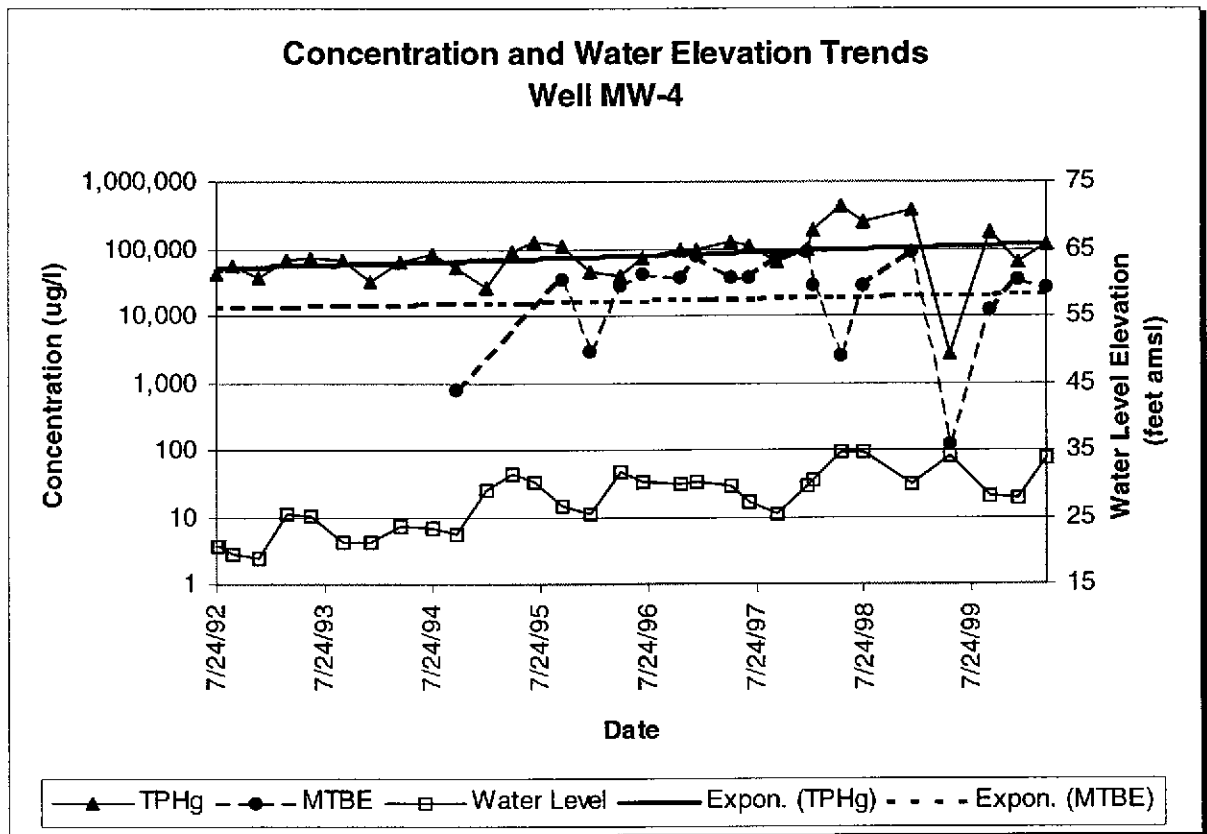
Site Hydrogeology: The site is typically underlain by clays with 1 to 4 foot thick intervals of sands and gravels to a total explored depth of approximately 45 feet bgs. Boring logs for wells MW-1, MW-2, MW-6 and MW-7 indicate less than 5 feet of sand and/or gravel encountered, while those for wells MW-3, MW-8 and MW-9 indicate more than 10 feet of sand and/or gravel encountered.

The water table has risen about 10 feet since 1992. On March 27, 2000, the depth to water in the site wells ranged from 15 to 19 feet bgs. Slug tests performed on wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-7 and MW-10 in 1999 indicate that the hydraulic conductivity ranges from 4.5×10^{-5} centimeters per second (cm/sec) in well MW-10 to 1.3×10^{-2} cm/sec in well MW-1 with a geometric mean value of 4.2×10^{-4} cm/sec.

SPH Distribution: As shown on the graph below, separate phase hydrocarbons (SPHs) were measured in well MW-2, located immediately south of the former underground storage tanks and approximately 20 feet southwest of the current underground storage tanks, between 1993 and 1998. SPH was not measured in the other site wells.



Hydrocarbon and MTBE Distribution: Samples collected by Blaine Tech Services (Blaine) of San Jose, California during the first quarter 2000 monitoring event from wells MW-2 and MW-4 are reported to contain more than 10,000 micrograms per liter ($\mu\text{g/L}$) of total petroleum hydrocarbons as gasoline (TPHg) and more than 1,000 $\mu\text{g/L}$ of benzene. In addition, samples from wells MW-2, MW-4, MW-6 and MW-10 are reported to contain more than 10,000 $\mu\text{g/L}$ of methyl tert-butyl ether (MTBE). As shown on the graph below, well MW-4 data exhibits slightly increasing concentration trends and generally rising water levels.



WELL INSTALLATION ACTIVITIES

Two 4-inch diameter wells were installed to facilitate potential remedial activities at the site. Cambria's Standard Field Procedures for Monitoring Wells is included in Appendix A.

Personnel Present: Jacquelyn Jones, Cambria Geologist, working under the supervision of Khaled Rahman, California Registered Geologist.

Permits: Alameda County Public Works Agency Permit No. 99WR666 (see Appendix B).

Drilling Company: V&W Drilling of Rio Vista, California (C-57 License # 720904).

Drilling Date: November 30, 1999.

Number of Wells: Two (EX-1 and EX-2).

Drilling Method: Drill rig equipped with ten-inch diameter hollow stem augers.

Sampling Method: Wells EX-1 and EX-2 were sampled at 5-foot intervals using a modified California split spoon sampler.


Boring Depths: Well EX-1 was drilled to 39.5 feet bgs. Well EX-2 was drilled to 36.5 feet bgs.

Ground Water Depths: Groundwater was first-encountered at 26 feet bgs in each boring.

Soil Types Encountered: Soils consisted of fill to approximately 8 to 13 feet bgs, underlain by ~~sands and gravels to an approximate depth of 30 feet bgs. Sandy silty clays were encountered at approximately 30 to 33 feet bgs~~ (see Appendix C).

Well Construction: The wells were constructed with a four-inch diameter schedule 40 PVC casing, and screened with a 0.010-inch slot. Well EX-1 was screened from 18 to 38 feet bgs, and well EX-2 was screened from 15 to 35 feet bgs (see Appendix C).

Well Development: Monitoring wells EX-1 and EX-2 were developed during installation by purging ten casing volumes and surging each well. The wells were re-developed on March 30, 2000 during subsequent interim remedial activities by surging and swabbing each well and purging with a vacuum truck.



Chemical Analysis: Selected soil samples were analyzed for TPHg by modified EPA Method 8015, and benzene, toluene, ethylbenzene, xylenes (BTEX) and MTBE by EPA Method 8260 by Pace Analytical Services Inc. of Long Beach, California (Pace) (see Table 1). Soil sample analytical reports are presented in Appendix D.


Soil Handling: Soil cuttings produced during drilling activities were stored temporarily on visqueen. The soil was transported by Denbeste Transportation, Inc. of Windsor, California to the Forward Landfill in Manteca, California.

Drilling Results: Wells EX-1 and EX-2 encountered more than 10 feet of sand and/or gravel (including fill material). Although located adjacent to wells MW-2 and MW-7, the soil types encountered were more similar to wells MW-3, MW-8 and MW-9.

No TPHg or BTEX were reported in analyzed soil samples from the two borings (see Table 1). Except for 0.012 milligrams per kilogram (mg/kg) in well EX-2 (11 feet bgs), no MTBE was reported in the analyzed soil samples.

INTERIM REMEDIAL ACTION ACTIVITIES

Interim groundwater extraction was performed to remove groundwater containing MTBE from the wells.



TOSCO Profiling: On January 4, 2000, Blaine collected grab water samples from wells EX-1 and EX-2. The samples were submitted to Pace. Additional grab samples were submitted to Block Environmental of Pleasant Hill, California for bioassay analysis. The samples were analyzed for parameters required to profile the water for recovery at the TOSCO refinery in Rodeo, California (see Appendix E). On January 31, 2000, TOSCO accepted up to 5,000 gallons of water from the site per week through April 30, 2000.

Personnel Present: Mark Erickson, Cambria Engineer, Tony Perini, Cambria Engineer, Greg Bentley, Cambria Technician, and Brian Busch, Cambria Environmental Scientist were onsite during one or more vacuum extraction events.

Extraction Dates: Onyx Industrial Services (Onyx) of Benicia, California conducted weekly vacuum extraction events between March 16, 2000 and April 30, 2000. Cambria observed extraction activities and collected samples on March 16, 2000, March 23, 2000, March 30, 2000, April 6, 2000, April 27, 2000 and April 28, 2000.

Extraction Wells: Wells EX-1, EX-2 and MW-2.

Extraction Procedures: Groundwater was extracted from wells EX-1 and EX-2 during each extraction event, and well MW-2 after the first event. Water was extracted using a vacuum truck and immediately off-hauled to the TOSCO refinery in Rodeo, California for recovery. The volumes of water extracted were estimated using the capacity gauge on the vacuum truck during each site visit.

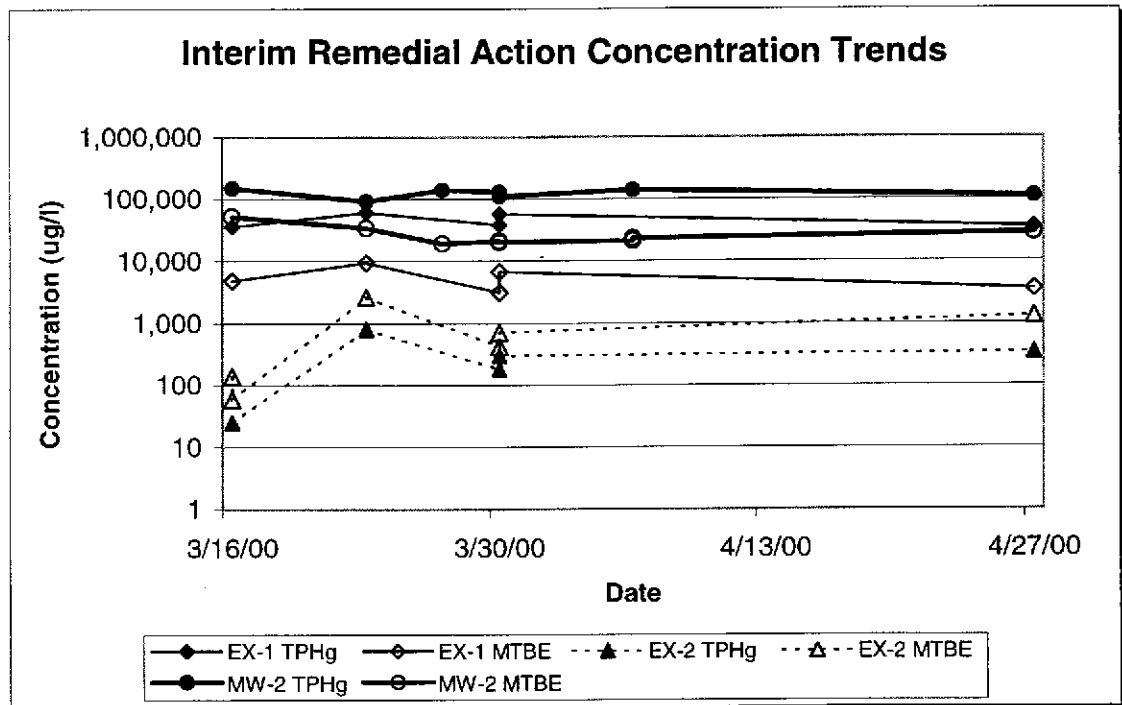
Extracted Volumes: Between 900 gallons and 1,700 gallons were extracted from the wells during each site visit, for a total of approximately 10,900 gallons extracted.

Groundwater Sampling: To assess concentration trends, groundwater samples were collected using a disposable bailer. Samples were collected before and after pumping, except on March 23, 2000 when samples were collected after pumping only. The samples collected after pumping on April 28, 2000 were not received by the analytical laboratory and were not analyzed.




Chemical Analysis: Samples were analyzed for TPHg using modified EPA Method 8015, and BTEX and MTBE using EPA Method 8260 (see Table 2). Groundwater sample analytical reports are included as Appendix F.

Short-Term Groundwater Extraction Results: Approximately 10,900 gallons were extracted from three site wells during the eight events. As shown on the graph below, wells MW-2 and EX-1 show stable to slightly decreasing concentration trends while well EX-2 shows stable to slightly increasing concentration trends.



RECOVERY TEST ACTIVITIES

Recovery Testing: Recovery tests were completed on wells EX-1, EX-2 and MW-2 during the April 27 and 28, 2000 extraction events. The recovery tests consisted of measuring water level immediately after the vacuum was shut off and as the well recovered. Measurements continued until water level recovered to approximately 80% of the initial water level.




Recovery Test Data Analysis: The recovery test data was analyzed by the Bouwer and Rice Method and Horslev Method for slug tests using Aquifer Test for Windows, Version 2.56. The calculations assume that the wells are fully penetrating, and consist of a 4-inch diameter casing installed in a 10-inch diameter borehole for wells EX-1 and EX-2, and a 2-inch diameter casing installed in a 8-inch diameter borehole for well MW-2. Measurements and data plots are presented in Appendix F. Calculated hydraulic conductivity values are summarized on Table 3.

Recovery Testing Results: Based on the recovery test measurements, the calculated hydraulic conductivity values ranged from 1.7×10^{-4} cm/sec to 9.4×10^{-5} cm/sec for well MW-2, 1.0×10^{-5} cm/sec to 2.0×10^{-5} cm/sec for well EX-1, and 1.1×10^{-3} cm/sec to 5.4×10^{-4} cm/sec for well EX-2 (see Table 3). The geometric mean of these values is 1.5×10^{-4} cm/sec. The calculated hydraulic conductivity values are consistent with those mentioned previously and with published values for the soil types described on the boring logs for the screened depths. Measurements and data plots are presented in Appendix E.

Based on this range of hydraulic conductivity values, and the assumptions and equation mentioned above, groundwater flow velocities of 2 to 190 feet per year can be calculated (see Table 3). These values are within the range of groundwater flow velocities mentioned previously.

CONCLUSIONS AND RECOMMENDATIONS



Groundwater monitoring results indicate that SPH was present in well MW-2 between 1993 and 1998, hydrocarbon and MTBE concentration trends are slightly increasing near the underground storage tanks, and the water table has risen more than 10 feet since 1992. Two 4-inch diameter groundwater wells were installed near the underground storage tanks for potential remedial activities. Recovery tests conducted on these new wells indicated hydraulic conductivity values of 1.0×10^{-5} to 1.1×10^{-3} cm/sec, which are consistent with previous hydraulic testing at the site. Interim remedial activities were conducted to evaluate the effectiveness of hydrocarbon and MTBE reduction using short-term groundwater extraction. Approximately 11,000 gallons of water were extracted from three wells during eight site visits using a vacuum truck. During the extraction events, stable to slightly decreasing concentration trends were exhibited in samples collected from wells MW-2 and EX-1, located immediately southwest of the underground storage tanks. Well EX-2, which is located north of the underground storage tanks, exhibited lower concentrations than wells MW-2 and EX-1.

To evaluate potential water uses within ½-mile radius of the site, the Alameda County Department of Public Works will be requested to provide information on water supply wells, and topographic maps will be reviewed for surface water bodies. In the interim, groundwater monitoring at the site will be continued.

ATTACHMENTS

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Table 1 – Soil Analytical Data

Table 2 – Groundwater Analytical Data

Table 3 – Recovery Test Summary

Appendix A – Standard Field Procedures for Monitoring Wells

Appendix B – Well Construction Permits

Appendix C – Boring Logs, Well Details, and Well Driller's Report Forms

Appendix D – Soil Analytical Report

Appendix E – Groundwater Analytical Reports

Appendix F – Recovery Test Data

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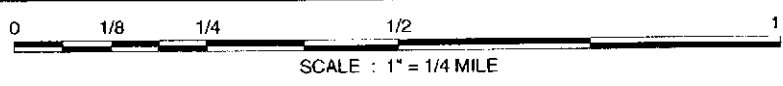
Figures



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FIGURE 1



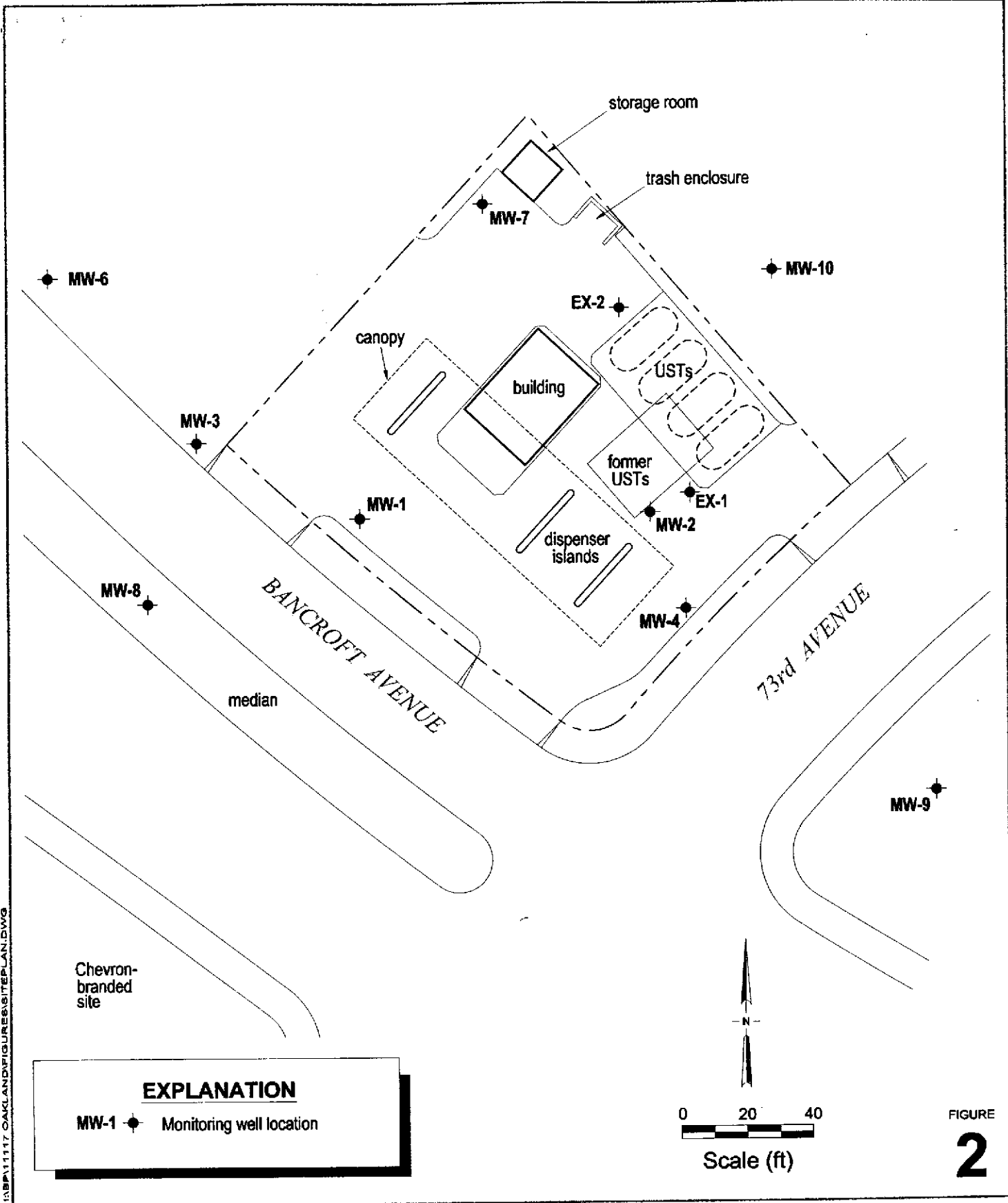
BP Oil Site No. 1117

7210 Bancroft Avenue
Oakland, California



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Vicinity Map



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EXPLANATION

MW-1 ◆ Monitoring well location

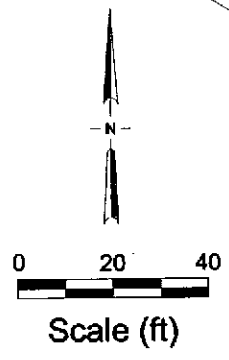


FIGURE 2

BP Oil Site No. 11117
 7210 Bancroft Avenue
 Oakland, California



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Site Plan

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Tables

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**Table 1. Soil Analytical Data - BP Oil Site No. 11117,
7210 Bancroft Avenue, Oakland, California**

| Sample ID (Depth - ft bgs) | Date Sampled | TPHg (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl- benzene (mg/kg) | Xylenes (mg/kg) | MTBE (mg/kg) | Total Lead (mg/kg) | TOC (% w/w) |
|-------------------------------|-----------------|-----------------|--------------------|--------------------|------------------------------|--------------------|-----------------|--------------------------|----------------|
| | EPA Method: | 8015m | 8260 | 8260 | 8260 | 8260 | 8260 | 6010 | Walkley-Black |
| EX-1-15.5 | 11/30/99 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | 0.011 | - | - |
| EX-1-21 | 11/30/99 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - | - |
| EX-1-25.5 | 11/30/99 | - | - | - | - | - | - | - | <0.318 |
| EX-1-36 | 11/30/99 | - | - | - | - | - | - | - | <0.318 |
| EX-2-11 | 11/30/99 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | 0.012 | - | - |
| EX-2-15.5 | 11/30/99 | - | - | - | - | - | - | - | <0.318 |
| EX-2-20.5 | 11/30/99 | <1.0 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | - | - |
| COMP | 11/30/99 | 1.0 | 0.016 | 0.096 | 0.042 | 0.236 | 0.17 | 5.85 | - |

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

TOC = Total organic carbon

mg/kg = Milligrams per kilogram

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**Table 2. Groundwater Analytical Data - BP Oil Company Site No. 11117,
7210 Bancroft Avenue, Oakland, California**

| Well | Sample ID | Date Sampled | TPHg (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl- | | MTBE (µg/L) |
|-------------|-----------|-----------------|----------------|-------------------|-------------------|-------------------|-------------------|----------------|
| | | | | | | benzene (µg/L) | Xylenes (µg/L) | |
| EPA Method: | | | 8015m | 8260 | 8260 | 8260 | 8260 | 8260 |
| EX-1 | B | 1/4/00 | - | 9,400 | 23,000 | 3,900 | 21,000 | 21,000 |
| | EX-1BEF | 3/16/00 | 36,000 | 4,700 | 13,000 | 1,100 | 9,800 | 4,800 |
| | EX-1BEF | 3/23/00 | 61,000 | 9,800 | 21,000 | 1,600 | 24,000 | 9,300 |
| | EX-1BEF | 3/30/00 | 38,000 | 3,500 | 5,800 | 620 | 6,500 | 3,100 |
| | EX-1AFT | 3/30/00 | 57,000 | 4,500 | 8,000 | 960 | 10,000 | 6,700 |
| | EX-1 PRE | 4/27/00 | 35,000 | 3,500 | 9,900 | 600 | 7,600 | 3,500 |
| EX-2 | A | 1/4/00 | - | 1.2 | <1 | <1 | <2 | 420 |
| | EX-2BEF | 3/16/00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 140 |
| | EX-2AFT | 3/16/00 | <50 | <0.5 | <0.5 | <0.5 | 0.55 | 59 |
| | EX-2 | 3/23/00 | 800 | <0.5 | <0.5 | <0.5 | 0.54 | 2,600 |
| | EX-2BEF | 3/30/00 | 180 | <0.5 | <0.5 | <0.5 | <0.5 | 420 |
| | EX-2AFT | 3/30/00 | 300 | <0.5 | <0.5 | <0.5 | <0.5 | 710 |
| | EX-2 PRE | 4/27/00 | 340 | 0.53 | <0.5 | <0.5 | <0.5 | 1,300 |
| MW-2 | MW-2AFT | 3/16/00 | 150,000 | 20,000 | 37,000 | 3,900 | 25,000 | 52,000 |
| | MW-2 | 3/23/00 | 92,000 | 13,000 | 27,000 | 2,900 | 19,000 | 34,000 |
| | Blaine | 3/27/00 | 140,000 | 15,000 | 25,000 | 3,400 | 21,000 | 19,000 |
| | MW-2BEF | 3/30/00 | 130,000 | 14,000 | 28,000 | 30,000 | 19,000 | 21,000 |
| | MW-2AFT | 3/30/00 | 110,000 | 12,000 | 24,000 | 2,600 | 15,000 | 20,000 |
| | MW-2A | 4/6/00 | 140,000 | 14,000 | 27,000 | 2,900 | 19,000 | 21,000 |
| | MW-2B | 4/6/00 | 140,000 | 15,000 | 28,000 | 3,300 | 19,000 | 23,000 |
| | MW-2 PRE | 4/27/00 | 110,000 | 14,000 | 26,000 | 2,600 | 17,000 | 28,000 |

Abbreviations and Notes:

GRO = Gasoline range organics

MTBE = Methyl tert-butyl ether

µg/L = Micrograms per liter

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Table 3. Recovery Test Summary - BP Oil Site No. 11117
7210 Bancroft Avenue, Oakland, California

| Well ID | Date | Analytical Method | Hydraulic Conductivity (cm/sec) | Hydraulic Conductivity (ft/min) | Effective Porosity | Hydraulic Gradient | Flow Velocity (ft/year) |
|-----------------------|---------|-------------------|---------------------------------|---------------------------------|--------------------|--------------------|-------------------------|
| MW-2 | 4/27/00 | Bouwer-Rice | 4.23E-04 | 8.33E-04 | 0.3 | 0.05 | 73 |
| | 4/27/00 | Horslev | 9.40E-05 | 1.85E-04 | 0.3 | 0.05 | 16 |
| | 4/28/00 | Bouwer-Rice | 1.72E-04 | 3.39E-04 | 0.3 | 0.05 | 30 |
| | 4/28/00 | Horslev | 2.21E-04 | 4.36E-04 | 0.3 | 0.05 | 38 |
| EX-1 | 4/27/00 | Bouwer-Rice | 1.96E-05 | 3.85E-05 | 0.3 | 0.05 | 3.4 |
| | 4/27/00 | Horslev | 1.03E-05 | 2.02E-05 | 0.3 | 0.05 | 1.8 |
| EX-2 | 4/27/00 | Bouwer-Rice | 2.61E-04 | 5.13E-04 | 0.3 | 0.05 | 45 |
| | 4/27/00 | Horslev | 1.54E-04 | 3.04E-04 | 0.3 | 0.05 | 27 |
| | 4/28/00 | Bouwer-Rice | 1.08E-03 | 2.13E-03 | 0.3 | 0.05 | 187 |
| | 4/28/00 | Horslev | 5.38E-04 | 1.06E-03 | 0.3 | 0.05 | 93 |
| GEOMETRIC MEAN | | | 1.5E-04 | 3.0E-04 | | | 26 |

Abbreviations and Notes:

cm/sec = centimeters per second

ft/min = feet per minute

ft/year = feet per year

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Appendix A

Standard Field Procedures for Monitoring Wells

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STANDARD FIELD PROCEDURES FOR MONITORING WELLS

This document presents standard field methods for drilling and sampling soil borings and installing, developing and sampling ground water monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

SOIL BORINGS

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the Unified Soil Classification System by a trained geologist working under the supervision of a California Registered Geologist (RG).

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe®. Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments at the bottom of the borehole.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Analysis

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4° C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable volatile vapor analyzer measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. Volatile vapor analyzer measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

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Water Sampling

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch® type sampler or are collected from the open borehole using bailers. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying

Ground water monitoring wells are installed to monitor ground water quality and determine the ground water elevation, flow direction and gradient. Well depths and screen lengths are based on ground water depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 ft below and 5 ft above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three ft thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two ft above the well screen. A two ft thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of Portland type I,II cement.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security.

The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

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Well Development

Wells are generally developed using a combination of ground water surging and extraction. Surging agitates the ground water and dislodges fine sediments from the sand pack. After about ten minutes of surging, ground water is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of ground water are extracted and the sediment volume in the ground water is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Ground Water Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of ground water are purged prior to sampling. Purging continues until ground water pH, conductivity, and temperature have stabilized. Ground water samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

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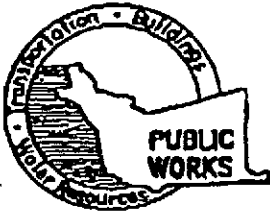
Appendix B

Well Construction Permits

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5240 ALVIN KAN



DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Site # 11117
7210 Bancroft
Oakland, CA

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CGN _____ ft.
APN _____

CLIENT
Name Scott Hoston, BP Oil Company
Address 295 SW 41st Street Phone 425-351-0687
City Building B, Suite N Zip 98055-4931
Kenston, WA

APPLICANT
Name Jacquelyn Jones
Cambria Env. Tech. Inc. Fax 510 420-9170
Address 1144 - 65th Street Ste B Phone 510 420-3315
City Oakland CA Zip 94608

TYPE OF PROJECT

Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S LICENSE NO. C57-720904
V+W Drilling

WELL PROJECTS

Drill Hole Diameter 10 in. Maximum
Casing Diameter 4 in. Depth 40 ft.
Surface Seal Depth 8 ft. Number 2

GEO TECHNICAL PROJECTS

Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE December 6, 1999 pending
ESTIMATED COMPLETION DATE December 6, 1999 subcontractor scheduling

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

APPLICANT'S SIGNATURE Jacquelyn Jones DATE 11/12/99

FOR OFFICE USE

PERMIT NUMBER 99WR666
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA 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.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

See attached.

G. SPECIAL CONDITIONS

APPROVED Frank Codel DATE 11/09/99

APPLICANT'S SIGNATURE Jacquelyn Jones DATE 11/12/99

| | | | | | |
|-------------------|------------------|---------|-------------------|------------|---|
| Post-It® Fax Note | 7671 | Date | 11/2/99 | # of pages | 2 |
| To | Cindy Hutchinson | From | Jacquelyn Jones | | |
| Co./Dept. | Alameda County | Co. | Cambria Env. Tech | | |
| Phone # | | Phone # | 510 420 3315 | | |
| Fax # | 510 670 5262 | Fax # | 510 420 9170 | | |

C A M B R I A



Appendix C

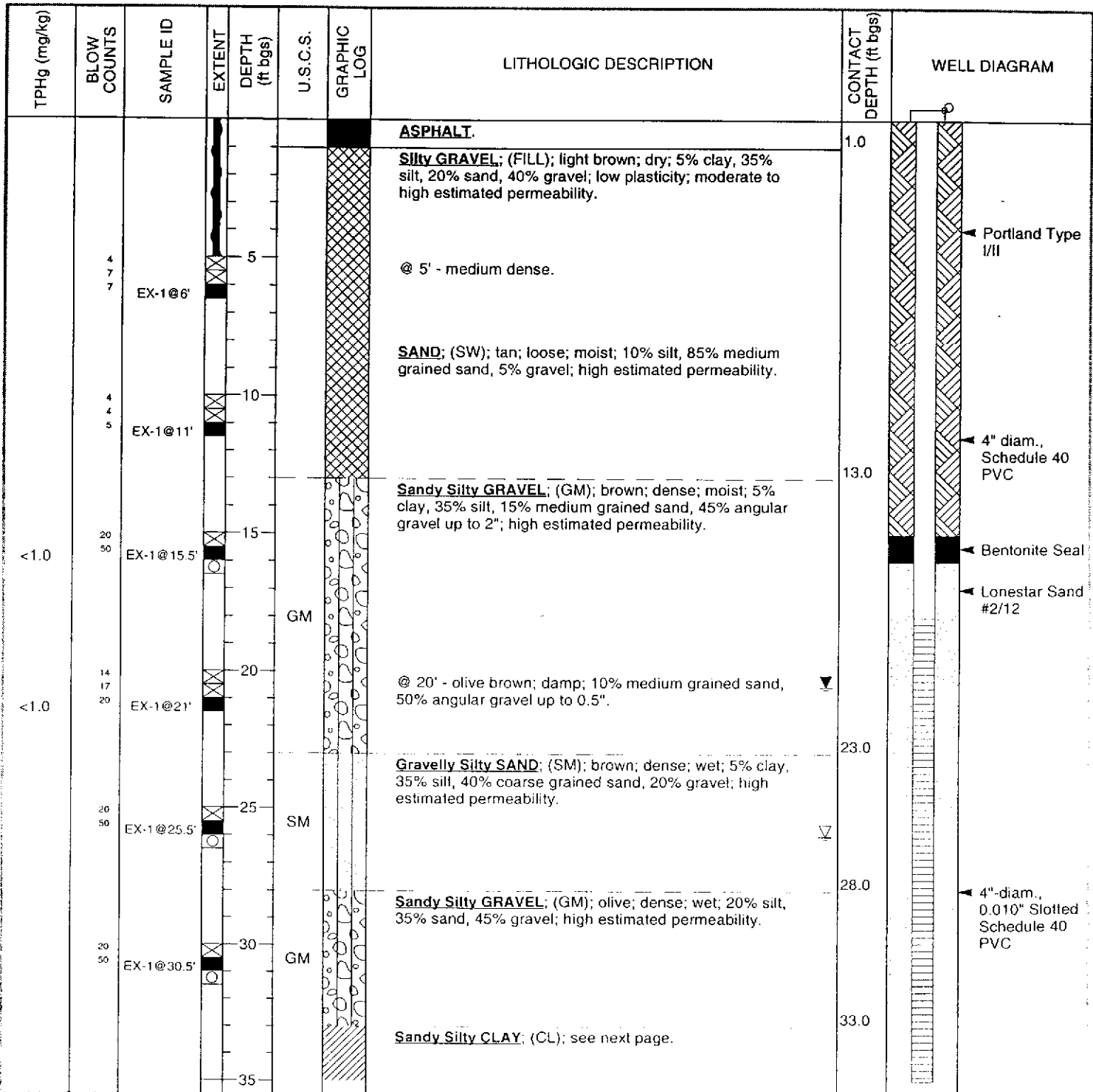
Boring Logs, Well Details, Well Driller's Report Forms



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

| | | | |
|-----------------|--|------------------------------------|------------------------|
| CLIENT NAME | BP Oil Company | BORING/WELL NAME | EX-1 |
| JOB/SITE NAME | BP-11117 | DRILLING STARTED | 30-Nov-99 |
| LOCATION | 7210 Bancroft Avenue, Oakland, California | DRILLING COMPLETED | 30-Nov-99 |
| PROJECT NUMBER | 852-1546 | WELL DEVELOPMENT DATE (YIELD) | 30-Nov-99 |
| DRILLER | V&W Drilling | GROUND SURFACE ELEVATION | Not Surveyed |
| DRILLING METHOD | Hollow-stem auger | TOP OF CASING ELEVATION | NA |
| BORING DIAMETER | 10" | SCREENED INTERVAL | 18 to 38 ft bgs |
| LOGGED BY | J. Jones | DEPTH TO WATER (First Encountered) | 26.0 ft (30-Nov-99) ▽ |
| REVIEWED BY | K. Rahman, RG | DEPTH TO WATER (Static) | 20.55 ft (30-Nov-99) ▼ |
| REMARKS | Hand augered to 5' bgs; located 5' from well MW-2. | | |



Continued Next Page

WELL LOG (TPH-G), H:\BRITIS-111117-1\GINT\BP-11117.GPJ DEFAULT.GDT 4/24/00



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

| | | | |
|---------------|---|--------------------|-----------|
| CLIENT NAME | BP Oil Company | BORING/WELL NAME | EX-1 |
| JOB/SITE NAME | BP-11117 | DRILLING STARTED | 30-Nov-99 |
| LOCATION | 7210 Bancroft Avenue, Oakland, California | DRILLING COMPLETED | 30-Nov-99 |

Continued from Previous Page

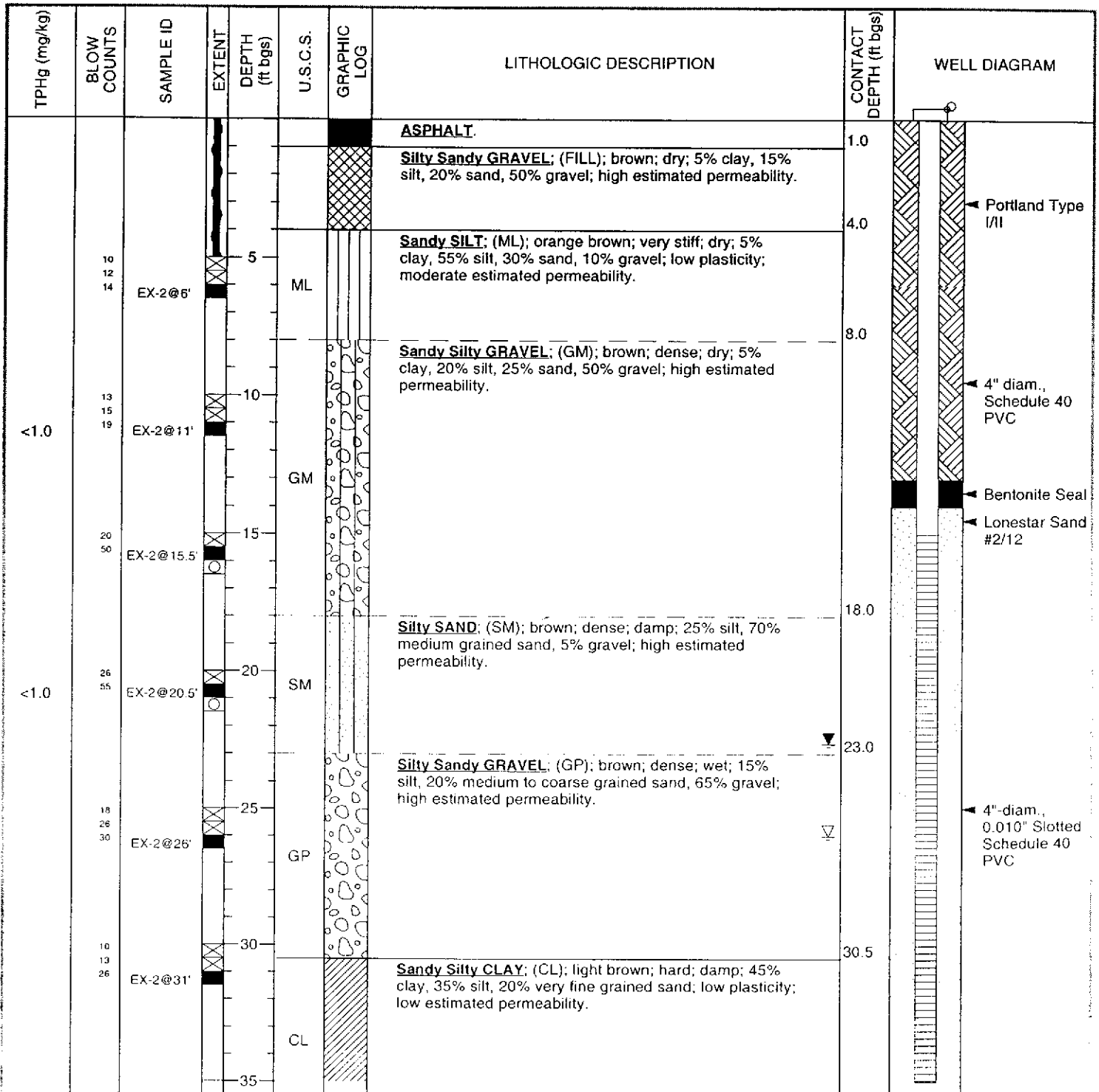
| TPHg (mg/kg) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (ft bgs) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (ft bgs) | WELL DIAGRAM |
|--------------|----------------|-----------|--------|----------------|----------|-------------|--|------------------------|----------------------------|
| | 17 23 33 | EX-1@36' | XX | | CL | | Sandy Silty CLAY; (CL); brown mottled with black; hard; damp; 45% clay, 35% silt, 20% very fine grained sand; low plasticity; low estimated permeability. | | |
| | 12 50/6 | EX-1@39' | XX | | | | | 39.5 | Bottom of Boring @ 39.5 ft |



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

| | | | |
|-----------------|---|------------------------------------|------------------------|
| CLIENT NAME | BP Oil Company | BORING/WELL NAME | EX-2 |
| JOB/SITE NAME | BP-11117 | DRILLING STARTED | 30-Nov-99 |
| LOCATION | 7210 Bancroft Avenue, Oakland, California | DRILLING COMPLETED | 30-Nov-99 |
| PROJECT NUMBER | 852-1546 | WELL DEVELOPMENT DATE (YIELD) | 30-Nov-99 |
| DRILLER | V&W Drilling | GROUND SURFACE ELEVATION | Not Surveyed |
| DRILLING METHOD | Hollow-stem auger | TOP OF CASING ELEVATION | NA |
| BORING DIAMETER | 10" | SCREENED INTERVAL | 15 to 35 ft bgs |
| LOGGED BY | J. Jones | DEPTH TO WATER (First Encountered) | 26.0 ft (30-Nov-99) ▾ |
| REVIEWED BY | K. Rahman, RG | DEPTH TO WATER (Static) | 22.64 ft (30-Nov-99) ▾ |
| REMARKS | Hand augered to 5' bgs; located between trash enclosure and UST slab. | | |



WELL LOG (TPH-G) H-BRITIS-111117-111117 GPJ_DEFAULT GDT 4/24/00



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME BP Oil Company BORING/WELL NAME EX-2
 JOB/SITE NAME BP-11117 DRILLING STARTED 30-Nov-99
 LOCATION 7210 Bancroft Avenue, Oakland, California DRILLING COMPLETED 30-Nov-99

Continued from Previous Page

| TPHg (mg/kg) | BLOW COUNTS | SAMPLE ID | EXTENT | DEPTH (ft bgs) | U.S.C.S. | GRAPHIC LOG | LITHOLOGIC DESCRIPTION | CONTACT DEPTH (ft bgs) | WELL DIAGRAM |
|--------------|-------------|-----------|--------|----------------|----------|-------------|------------------------|------------------------|--------------------------------|
| | 8 13 8 | EX-2@36' | XX | | | | | 36.5 | Bottom of Boring @ 36.5 ft |

WELL LOG (TPH-G) H-BRITIS-11117-1 (GINT)BP-11117.GPJ DEFAULT GDT 4/24/00

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

C A M B R I A



Appendix D

Soil Analytical Report

Pace Analytical

Pace Analytical Services, Inc.
3970 Gilman St.
Long Beach, CA 90815

Tel: 562-498-9515
Fax: 562-597-0786

December 28, 1999

Mr. KHALED RAHMAN
CAMBRIA ENVIRONMENTAL
1144 65TH STREET
SUITE B
OAKLAND, CA 94608

RE: Pace Project Number: 6036495
Client Project ID: BP 11117

Dear Mr. RAHMAN:

Enclosed are the results of analyses for sample(s) received by the laboratory on December 2, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lily Bayati
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services, Inc.
3970 Gilman St.
Long Beach, CA 90815

Tel: 562-498-9515
Fax: 562-597-0786

DATE: 12/28/99
PAGE: 1

CAMBRIA ENVIRONMENTAL
1144 65TH STREET
SUITE B
OAKLAND, CA 94608

Pace Project Number: 6036495
Client Project ID: BP 11117

Attn: Mr. KHALED RAHMAN
Phone:

Solid results are reported on a wet weight basis

Pace Sample No: 603080946 Date Collected: 11/30/99 Matrix: Soil
Client Sample ID: EX1@15.5' Date Received: 12/02/99

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| | | |
|----------------------------|-----------------------------|----------------------------------|
| GAS BTEX, Soil by 8015 | Method: EPA 8015/8020 Modif | Prep Method: EPA 8015/8020 Modif |
| Gasoline | ND ug/kg 1000 | 12/03/99 VN |
| a,a,a-Trifluorotoluene (S) | 102 % | 12/03/99 VN 2164-17-2 |

| | | |
|--------------------------------|------------------|-----------------------|
| GC/MS VOCs by 8260 | Method: EPA 8260 | Prep Method: EPA 8260 |
| Benzene | ND ug/kg 5 | 12/04/99 RG 71-43-2 |
| Toluene | ND ug/kg 5 | 12/04/99 RG 108-88-3 |
| Ethylbenzene | ND ug/kg 5 | 12/04/99 RG 100-41-4 |
| M&P-Xylene | ND ug/kg 5 | 12/04/99 RG |
| O-Xylene (1,2-Dimethylbenzene) | ND ug/kg 5 | 12/04/99 RG 95-47-6 |
| Methyl-tert-butyl Ether | 11 ug/kg 5 | 12/04/99 RG 1634-04-4 |
| Dibromofluoromethane (S) | 104 % | 12/04/99 RG 1868-53-7 |
| Toluene-d8 (S) | 97 % | 12/04/99 RG 2037-26-5 |
| 4-Bromofluorobenzene (S) | 107 % | 12/04/99 RG 460-00-4 |

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Long Beach, CA 90815

Tel: 562-498-9515
Fax: 562-597-0786

DATE: 12/28/99
PAGE: 2

Pace Project Number: 6036495
Client Project ID: BP 11117

Pace Sample No: 603080979 Date Collected: 11/30/99 Matrix: Soil
Client Sample ID: EX1021 Date Received: 12/02/99

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX, Soil by 8015 | | Method: EPA 8015/8020 Modif | | Prep Method: EPA 8015/8020 Modif | | | |
|--------------------------------|-----|-----------------------------|------|----------------------------------|----|-----------|--|
| Gasoline | ND | ug/kg | 1000 | 12/03/99 | VN | | |
| a,a,a-Trifluorotoluene (S) | 99 | % | | 12/03/99 | VN | 2164-17-2 | |
| GC/MS VOCs by 8260 | | Method: EPA 8260 | | Prep Method: EPA 8260 | | | |
| Benzene | ND | ug/kg | 5 | 12/04/99 | RG | 71-43-2 | |
| Toluene | ND | ug/kg | 5 | 12/04/99 | RG | 108-88-3 | |
| Ethylbenzene | ND | ug/kg | 5 | 12/04/99 | RG | 100-41-4 | |
| M&P-Xylene | ND | ug/kg | 5 | 12/04/99 | RG | | |
| O-Xylene (1,2-Dimethylbenzene) | ND | ug/kg | 5 | 12/04/99 | RG | 95-47-6 | |
| Methyl-tert-butyl Ether | ND | ug/kg | 5 | 12/04/99 | RG | 1634-04-4 | |
| Dibromofluoromethane (S) | 105 | % | | 12/04/99 | RG | 1868-53-7 | |
| Toluene-d8 (S) | 95 | % | | 12/04/99 | RG | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 105 | % | | 12/04/99 | RG | 460-00-4 | |

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Long Beach, CA 90815

Tel: 562-498-9515
Fax: 562-597-0786

DATE: 12/28/99

PAGE: 3

Pace Project Number: 6036495
Client Project ID: BP 11117

Pace Sample No: 603080987 Date Collected: 11/30/99 Matrix: Soil
Client Sample ID: EX2@11 Date Received: 12/02/99

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| | | | | | | | |
|--------------------------------|-----|-----------------------------|------|----------------------------------|----|-----------|--|
| GAS BTEX, Soil by 8015 | | Method: EPA 8015/8020 Modif | | Prep Method: EPA 8015/8020 Modif | | | |
| Gasoline | ND | ug/kg | 1000 | 12/03/99 | VN | | |
| a,a,a-Trifluorotoluene (S) | 94 | % | | 12/03/99 | VN | 2164-17-2 | |
| GC/MS VOCs by 8260 | | Method: EPA 8260 | | Prep Method: EPA 8260 | | | |
| Benzene | ND | ug/kg | 5 | 12/04/99 | RG | 71-43-2 | |
| Toluene | ND | ug/kg | 5 | 12/04/99 | RG | 108-88-3 | |
| Ethylbenzene | ND | ug/kg | 5 | 12/04/99 | RG | 100-41-4 | |
| M&P-Xylene | ND | ug/kg | 5 | 12/04/99 | RG | | |
| O-Xylene (1,2-Dimethylbenzene) | ND | ug/kg | 5 | 12/04/99 | RG | 95-47-6 | |
| Methyl-tert-butyl Ether | 12 | ug/kg | 5 | 12/04/99 | RG | 1634-04-4 | |
| Dibromofluoromethane (S) | 110 | % | | 12/04/99 | RG | 1868-53-7 | |
| Toluene-d8 (S) | 95 | % | | 12/04/99 | RG | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 | % | | 12/04/99 | RG | 460-00-4 | |

REPORT OF LABORATORY ANALYSIS

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DATE: 12/28/99
PAGE: 4

Pace Project Number: 6036495
Client Project ID: BP 11117

Pace Sample No: 603080995 Date Collected: 11/30/99 Matrix: Soil
Client Sample ID: EX2@20.5' Date Received: 12/02/99

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX, Soil by 8015 | | Method: EPA 8015/8020 Modif | | | Prep Method: EPA 8015/8020 Modif | | |
|----------------------------|----|-----------------------------|------|----------|----------------------------------|-----------|--|
| Gasoline | ND | ug/kg | 1000 | 12/03/99 | VN | | |
| a,a,a-Trifluorotoluene (S) | 98 | % | | 12/03/99 | VN | 2164-17-2 | |

| GC/MS VOCs by 8260 | | Method: EPA 8260 | | | Prep Method: EPA 8260 | | |
|--------------------------------|-----|------------------|---|----------|-----------------------|-----------|--|
| Benzene | ND | ug/kg | 5 | 12/04/99 | RG | 71-43-2 | |
| Toluene | ND | ug/kg | 5 | 12/04/99 | RG | 108-88-3 | |
| Ethylbenzene | ND | ug/kg | 5 | 12/04/99 | RG | 100-41-4 | |
| M&P-Xylene | ND | ug/kg | 5 | 12/04/99 | RG | | |
| O-Xylene (1,2-Dimethylbenzene) | ND | ug/kg | 5 | 12/04/99 | RG | 95-47-6 | |
| Methyl-tert-butyl Ether | ND | ug/kg | 5 | 12/04/99 | RG | 1634-04-4 | |
| Dibromofluoromethane (S) | 103 | % | | 12/04/99 | RG | 1868-53-7 | |
| Toluene-d8 (S) | 95 | % | | 12/04/99 | RG | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 | % | | 12/04/99 | RG | 460-00-4 | |

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Long Beach, CA 90815

Tel: 562-498-9515
Fax: 562-597-0786

DATE: 12/28/99
PAGE: 5

Pace Project Number: 6036495
Client Project ID: BP 11117

Pace Sample No: 603081001 Date Collected: 11/30/99 Matrix: Soil
Client Sample ID: COMP Date Received: 12/02/99

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| | | | | | | | |
|--------------------------------|------|-----------------------------|------|----------|----------------------------------|-----------|--|
| Metals, ICP | | Method: EPA 6010 | | | Prep Method: EPA 3050 | | |
| Lead | 5.85 | mg/kg | 0.99 | 12/06/99 | SC | 7439-92-1 | |
| Date Digested | | | | 12/04/99 | | | |
| GAS BTEX, Soil by 8015 | | Method: EPA 8015/8020 Modif | | | Prep Method: EPA 8015/8020 Modif | | |
| Gasoline | 1000 | ug/kg | 740 | 12/03/99 | VN | | |
| a.a.a-Trifluorotoluene (S) | 101 | x | | 12/03/99 | VN | 2164-17-2 | |
| GC/MS VOCs by 8260 | | Method: EPA 8260 | | | Prep Method: EPA 8260 | | |
| Benzene | 16 | ug/kg | 5 | 12/04/99 | RG | 71-43-2 | |
| Toluene | 96 | ug/kg | 5 | 12/04/99 | RG | 108-88-3 | |
| Ethylbenzene | 42 | ug/kg | 5 | 12/04/99 | RG | 100-41-4 | |
| M&P-Xylene | 170 | ug/kg | 5 | 12/04/99 | RG | | |
| O-Xylene (1,2-Dimethylbenzene) | 66 | ug/kg | 5 | 12/04/99 | RG | 95-47-6 | |
| Methyl-tert-butyl Ether | 170 | ug/kg | 5 | 12/04/99 | RG | 1634-04-4 | |
| Dibromofluoromethane (S) | 102 | x | | 12/04/99 | RG | 1868-53-7 | |
| Toluene-d8 (S) | 96 | x | | 12/04/99 | RG | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 105 | x | | 12/04/99 | RG | 460-00-4 | |

REPORT OF LABORATORY ANALYSIS

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DATE: 12/28/99

PAGE: 6

Pace Project Number: 6036495
Client Project ID: BP 11117

PARAMETER FOOTNOTES

| | |
|-----|----------------------|
| ND | Not Detected |
| NC | Not Calculable |
| PRL | Pace Reporting Limit |
| (S) | Surrogate |

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services, Inc.
3970 Gilman St.
Long Beach, CA 90815

Tel: 562-498-9515
Fax: 562-597-0786

QUALITY CONTROL DATA

DATE: 12/28/99
PAGE: 7

CAMBRIA ENVIRONMENTAL
1144 65TH STREET
SUITE B
OAKLAND, CA 94608

Pace Project Number: 6036495
Client Project ID: BP 11117

Attn: Mr. KHALED RAHMAN
Phone:

QC Batch ID: 74465 QC Batch Method: EPA 8015/8020 Modif
Analysis Method: EPA 8015/8020 Modif Analysis Description: GAS BTEX, Soil by 8015
Associated Pace Samples: 603080946 603080979 603080987 603080995 603081001

METHOD BLANK: 603085044
Associated Pace Samples:

| Parameter | Units | 603080946 | 603080979 | 603080987 | 603080995 | 603081001 | Method Blank Result | PRL | Footnotes |
|----------------------------|-------|-----------|-----------|-----------|-----------|-----------|---------------------|-----|-----------|
| Gasoline | ug/kg | | | | | | ND | 500 | |
| a,a,a-Trifluorotoluene (S) | % | | | | | | 88 | | |

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603085051 | 603085069 | Matrix Spike Conc. | Matrix Spike Result | Matrix Spike % Rec | Matrix Sp. Dup. Result | Spike Dup % Rec | RPD | Footnotes |
|----------------------------|-------|--|-----------|--------------------|---------------------|--------------------|------------------------|-----------------|-----|-----------|
| Gasoline | ug/kg | | 0 | 600 | 522.0 | 87.0 | 554.0 | 92.3 | 6 | |
| a,a,a-Trifluorotoluene (S) | | | | | | 96 | | 96 | | |

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services, Inc.
 3970 Gilman St.
 Long Beach, CA 90815
 Tel: 562-498-9515
 Fax: 562-597-0786

QUALITY CONTROL DATA

DATE: 12/28/99
 PAGE: 8

CAMBRIA ENVIRONMENTAL
 1144 65TH STREET
 SUITE B
 OAKLAND, CA 94608

Pace Project Number: 6036495
 Client Project ID: BP 11117

Attn: Mr. KHALED RAHMAN
 Phone:

QC Batch ID: 74497
 Analysis Method: EPA 8260
 Associated Pace Samples: 603080946 603080979 603080987 603080995 603081001

QC Batch Method: EPA 8260
 Analysis Description: GC/MS VOCs by 8260

METHOD BLANK: 603088154
 Associated Pace Samples:

| Parameter | Units | Method Blank | | | Footnotes |
|--------------------------------|-------|--------------|-----------|-----------|-----------|
| | | 603080946 | 603080979 | 603080987 | |
| Benzene | ug/kg | ND | ND | 5 | |
| Toluene | ug/kg | ND | ND | 5 | |
| Ethylbenzene | ug/kg | ND | ND | 5 | |
| M&P-Xylene | ug/kg | ND | ND | 5 | |
| O-Xylene (1,2-Dimethylbenzene) | ug/kg | ND | ND | 5 | |
| Methyl-tert-butyl Ether | ug/kg | ND | ND | 5 | |
| Dibromofluoromethane (S) | % | 97 | | | |
| Toluene-d8 (S) | % | 96 | | | |
| 4-Bromofluorobenzene (S) | % | 105 | | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603088170 603088188

| Parameter | Units | Matrix Spike | | Matrix Spike Result | Matrix Sp. Dup. % Rec | Matrix Sp. Dup. Result | Spike Dup % Rec | RPD | Footnotes |
|--------------------------|-------|--------------|-----------------|---------------------|-----------------------|------------------------|-----------------|-----|-----------|
| | | 603079690 | 603088188 Conc. | | | | | | |
| Benzene | ug/kg | 0 | 50 | 57.10 | 114 | 59.50 | 119 | 4 | |
| Toluene | ug/kg | 0 | 50 | 59.50 | 119 | 63.40 | 127 | 6 | |
| Dibromofluoromethane (S) | | | | | 114 | | 113 | | |
| Toluene-d8 (S) | | | | | 110 | | 112 | | |
| 4-Bromofluorobenzene (S) | | | | | 115 | | 118 | | 1,1 |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

DATE: 12/28/99
PAGE: 9

Pace Project Number: 6036495
Client Project ID: BP 11117

LABORATORY CONTROL SAMPLE: 603088162

| Parameter | Units | Spike Conc. | LCS Result | Spike % Rec | Footnotes |
|--------------------------|-------|----------------|---------------|----------------|-----------|
| Benzene | ug/kg | 50 | 50.80 | 102 | |
| Toluene | ug/kg | 50 | 47.90 | 95.8 | |
| Dibromofluoromethane (S) | | | | 107 | |
| Toluene-d8 (S) | | | | 97 | |
| 4-Bromofluorobenzene (S) | | | | 101 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

DATE: 12/28/99

PAGE: 10

CAMBRIA ENVIRONMENTAL
1144 65TH STREET
SUITE B
OAKLAND, CA 94608

Pace Project Number: 6036495
Client Project ID: BP 11117

Attn: Mr. KHALED RAHMAN
Phone:

QC Batch ID: 74733
Analysis Method: EPA 6010
Associated Pace Samples: 603081001

QC Batch Method: EPA 3050
Analysis Description: Metals, ICP

METHOD BLANK: 603097668
Associated Pace Samples:

603081001

| Parameter | Units | Method Blank Result | PRL | Footnotes |
|-----------|-------|---------------------|-----|-----------|
| Lead | mg/kg | ND | 1 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603097692 603097700

| Parameter | Units | 603080565 | Spike Conc. | Matrix Spike Result | Spike % Rec | Matrix Sp. Dup. Result | Spike Dup % Rec | RPD | Footnotes |
|-----------|-------|-----------|-------------|---------------------|-------------|------------------------|-----------------|-----|-----------|
| Lead | mg/kg | 99.18 | 46.73 | 134.2 | 74.8 | 164.7 | 128 | 53 | |

LABORATORY CONTROL SAMPLE & LCSD: 603097676 603097684

| Parameter | Units | Spike Conc. | LCS Result | Spike % Rec | LCSD Result | Spike Dup % Rec | RPD | Footnotes |
|-----------|-------|-------------|------------|-------------|-------------|-----------------|-----|-----------|
| Lead | mg/kg | 50 | 47.52 | 95.0 | 47.60 | 95.2 | 0 | |

REPORT OF LABORATORY ANALYSIS

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DATE: 12/28/99

PAGE: 11

Pace Project Number: 6036495
Client Project ID: BP 11117

QUALITY CONTROL DATA PARAMETER FOOTNOTES

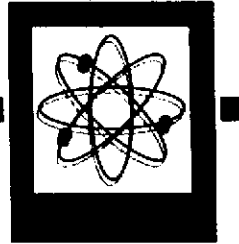
Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
RPD Relative Percent Difference
(S) Surrogate
[1] is/ss out of control - QC verified by LCS

REPORT OF LABORATORY ANALYSIS

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FLOWERS



**CHEMICAL
LABORATORIES**
INCORPORATED

Received From:
Pace Analytical-Long Beach
3970 Gilman St.
Long Beach, CA 90815

Date Reported : Dec15 1999
Project Number : AMBP-11117
PO Number : 6036495
FDHRSDW Number : 83139
NYSDOH Number : 11595
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: DRY WT BASIS WB_TOC

Date Sampled: Nov30 1999 Date Received: Dec 7 1999 Lab Numbers: 5510-5512
REPORT OF ANALYSIS

| Parameter | Unit | Practical %ACC %PRC | 5510 EX1255 | 5511 EX136 | 5512 EX2155 |
|------------------|------|---------------------|-------------|------------|-------------|
| | | Quantitative Limit | | | |
| %Moisture | %H2O | .00010 | 19.6 | 16.2 | 14.5 |
| Organic Carbon % | | 0.318 | <0.318 | <0.318 | <0.318 |

Data Release Authorization

Sample integrity certified prior to analysis. Deficiencies are in QA Report Sec. 4
Methods of analysis in accordance with FCL QA and EPA approved methodology.
This Report may not be reproduced in part, results relate only to items tested.

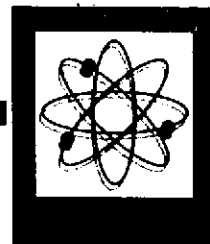

Jefferson S. Flowers, Ph.d.
President/Technical Director

Section 1 of 5

Page 1 of 1

FLOWERS

**CHEMICAL
LABORATORIES**
INCORPORATED



Received From:
Pace Analytical-Long Beach
3970 Gilman St.
Long Beach, CA 90815

Date Reported : Dec15 1999
Project Number : AMBP-11117
PO Number : 6036495
FDHRS Number : 83139
FHRS ENVNumber : E83018
FDER COMQAPNum : 86-0008G
LDHH Number : 94-23
NCDEHNR Number : 296
SCDHEC Number : 96019

For: DRY WT BASIS WB_TOC

Date Sampled:Nov30 1999 Date Received:Dec 7 1999 Lab Numbers: 5510-5512

REPORT OF INFORMATION

| Parameter Unit | Limit | Expected | Value | Range | Correlation |
|----------------|-------|----------|-------|-------|-------------|
| | | | | 5510 | |
| %Moisture %H2O | 152. | 18.3 | 19.6 | | |
| | | | | 5511 | |
| %Moisture %H2O | 152. | 18.3 | 16.2 | | |
| | | | | 5512 | |
| %Moisture %H2O | 152. | 18.3 | 14.5 | | |

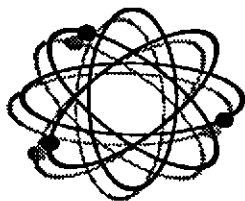
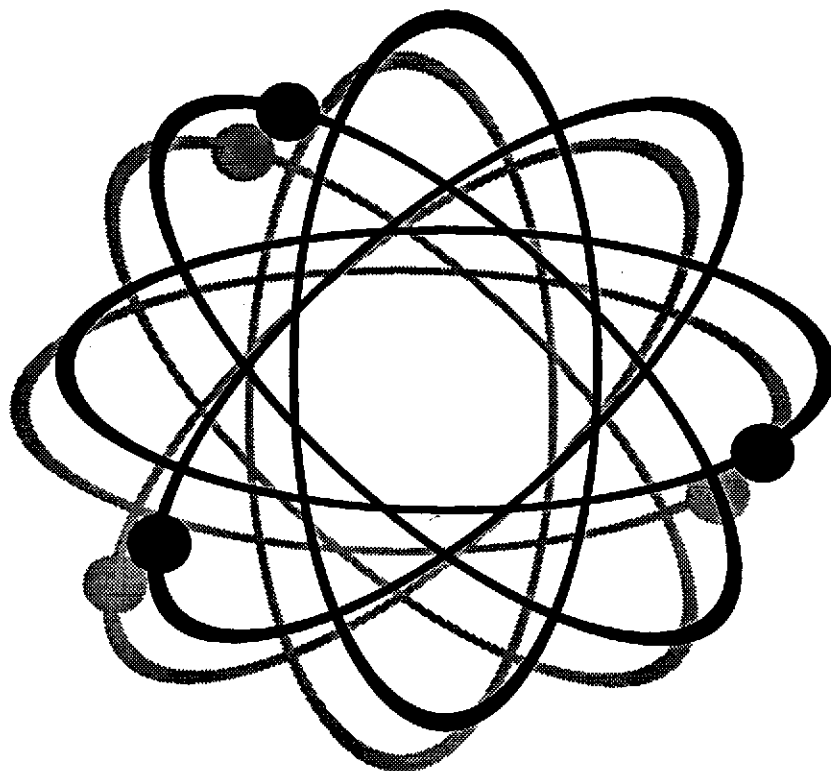
The above information is intended to highlight exceptional data as compared to the upper control limits (Limit) established for each of the parameters. Range exceedances are flagged by integer values in the Range column. The Expected values are derived from historical data. Expected is computed as either the mean or computed directly from another parameter using linear regression. All known correlation rule exceedances are listed as enumerated rule numbers in the Correlation column. Correlation pair rules are defined on the last page.

| 4657 | | | FLOWERS CHEMICAL LABORATORIES | | | | | | | | | | | | | | |
|------------------|--------------|------|-------------------------------|---------|-----------|--------|--|----------|-------|--|------------------|-----------|--------|---------|------|--------|----------|
| | | | ANALYTICAL RESULTS FORM | | | | | | | | HRS Number 83139 | | | | | | |
| Dry Weight Basis | | | EX1(25.5) | EX1(36) | EX2(15.5) | | | | | | | QA | | Section | | | |
| Parameter | Symbol | Unit | 5510 | 5511 | 5512 | | | | | | | Method | MDL | %RSD | %Rec | Analys | Date |
| %Moisture | * | %H2O | 19.6 | 16.2 | 14.5 | | | | | | | ASTM | 0.0001 | | | MAN | 12-07-99 |
| Organic Carbon | * | % | <0.1U | <0.1U | <0.1U | | | | | | | Walkley-B | 0.1 | | | MAN | 12-15-99 |
| | | | Date Received: | | 12-07-99 | Typed: | | 12-15-99 | Sent: | | 12-15-99 | | | | | | |
| Project Number | AMBP-11117 | | | | | | | | | | | | | | | | |
| PO Number | 6036495 | | | | | | | | | | | | | | | | |
| Date Sampled | 1 11-30-99 * | | | | | | | | | | | | | | | | |
| Date Analyzed | 0 | | | | | | | | | | | | | | | | |
| Compacted | | | | | | | | | | | | | | | | | |
| Format | NormRR | | | | | | | | | | | | | | | | |
| Unit Cost | Extd | | | | | | | | | | | | | | | | |
| DRY WT BASIS | 825 | | | | | | | | | | | | | | | | 3 * |
| WB TOC | 7500 | | | | | | | | | | | | | | | | 3 * |

Quality Assurance Report

Prepared for: Pace Analytical-Long Beach
Project Number: AMBP-11117
Lab Numbers: 5510 - 5512

Report date: 15-Dec-99



**FLOWERS
CHEMICAL
LABORATORIES**



FLOWERS CHEMICAL LABORATORIES, INC.

QA SDG Narrative Summary

Client: Pace Analytical-Long Beach
Project Number: AMBP-11117
P.O. Number: 6036495
Date Sampled: 30-Nov-99
Lab Numbers: 5510 - 5512

Sample Handling

Sample handling and holding time criteria were met for all samples.

Samples Collected by Submitter. No unusual events occurred during analysis.

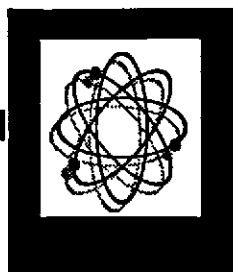
The requested analytes did not require surrogates.

Accuracy / Precision:

Standards Traceability:

FLOWERS

**CHEMICAL
LABORATORIES
INCORPORATED**



Internal Custody Record Lab Numbers: 5510 - 5512

This form was intentionally left blank.

489772

Section A
 Required Client Information:
 Company: _____
 Address: _____
 P.O.: _____
 Project Name: **BP1117**
 Project Number: _____
 Phone: _____ Fax: _____

Section B
 Required Client Information:
 Report To: **Lily Bayati**
 Invoice To: _____
 P.O.: _____

Client Information (Check quote/contract):
 Requested Due Date: **12/11/99**
 TAT: **5 DAYS**
 * Under 14 day turnaround subject to laboratory and contractual obligations and may result in a Flush Turnaround Surcharge.
 Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**
 Quote Reference: _____
 Project Manager: _____
 Project #: **6036495**
 Profile #: _____
 Requested Analysis: _____

Section D
 Required Client Information:
SAMPLE ID
 One character per box.
 (A-Z, 0-9 / . -)
 Sample IDs MUST BE UNIQUE


DATE COLLECTED
 mm / dd / yy
TIME COLLECTED
 mm : hh a/p
MATRIX CODE
 Valid Matrix Codes
 MATRIX CODE
 WATER WT
 SOIL SL
 OIL OL
 WIPE WP
 AIR AR
 TISSUE TS
 OTHER OT

Preservatives
 # Containers
 Unpreserved
 H₂SO₄
 HNO₃
 HCl
 NaOH
 Na₂S₂O₃
 Total Organic Carbon by Method 8160
 24°C
 Remarks / Lab ID

| ITF# | SAMPLE ID | MATRIX CODE | DATE COLLECTED | TIME COLLECTED | # Containers | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Total Organic Carbon by Method 8160 | 24°C | Remarks / Lab ID |
|------|----------------|-------------|----------------|----------------|--------------|-------------|--------------------------------|------------------|-----|------|---|-------------------------------------|------|------------------|
| 1 | EX 1 2 2 5 . 5 | SL | 11/30/99 | | | | | | | | | | | 5510 |
| 2 | EX 1 2 3 6 | SL | ↓ | | | | | | | | | | | 5511 |
| 3 | EX 2 2 1 5 . 5 | SL | 11/30/99 | | | | | | | | | | | 5512 |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |

| Sample Condition | Sample Notes | Item No. | Relinquished By / Company | Date | Time | Accepted By / Company | Date | Time |
|------------------|--------------|----------|---------------------------|---------|-------|-----------------------|------|------|
| Temp in °C: | | | NIAK | 12/6/99 | 14:30 | | | |
| Received on ICE: | Y / N | | | | | | | |
| Sealed Cooler: | Y / N | | | | | | | |
| Samples Intact: | Y / N | | | | | | | |

Additional Comments:

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: _____
 SIGNATURE of SAMPLER:  FCL
 DATE Signed: (MM / DD / YY) 12/10/99

489720

Required Client Information: **Section A** Required Client Information: **Section B**

Page: 1 of 2

To Be Completed by Pace Analytical and Client **Section C**

Company: Cambria Environmental
 Address: 1144 65th Street, Ste B
Oakland, CA 94608
 Report To: Khaled Rahman
 Invoice To: Cott Horton / BP Oil Company
 P.O. #: J076118
 Project Name: BP-1117
 Project Number: 852-1546

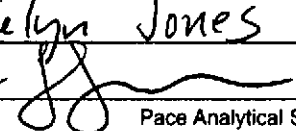
Quote Reference: BP Contract 15655 A
 Project Manager: Lily Bayati
 Project #: 60 36495
 Profile #:
 Requested Analysis:

| # | SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE | Valid Matrix Codes ← MATRIX CODE | DATE COLLECTED mm / dd / yy | TIME COLLECTED mm : hh a/p | # Containers | Preservatives | | | | | | Remarks / Lab |
|----|--|--|--------------------------------|-------------------------------|--------------|---------------|--------------------------------|------------------|-----|------|---|---------------|
| | | | | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | |
| 1 | EX1@6' | SL | 11/30/99 | 11:44 a | 1 | X | | | | | | hold |
| 2 | EX1@11' | | | 11:48 a | | | | | | | | hold |
| 3 | EX1@15.5' | | | 11:52 a | | X | X | | | | | |
| 4 | EX1@21' | | | 11:56 a | | X | X | | | | | |
| 5 | EX1@25.5' | | | 12:02 p | | | | X | | | | |
| 6 | EX1@30.5' | | | 12:10 p | | | | | | | | hold |
| 7 | EX1@36' | | | 12:33 p | | | | X | | | | |
| 8 | EX1@39' | | | 12:50 p | | | | | | | | hold |
| 9 | EX2@6' | | | 14:52 p | | | | | | | | hold |
| 10 | EX2@11' | | | 14:56 p | | X | X | | | | | hold |
| 11 | EX2@15.5' | | | 15:01 p | | | | X | | | | |
| 12 | EX2@20.5' | | | 15:06 p | | X | X | | | | | |

PHENOLINE 2157H
BTEX / HBE 8260
Total Organic Carbon
benzene
toluene
ortho
metad

| Sample Condition | Sample Notes | Item No. | Relinquished By / Company | Date | Time | Accepted By / Company | Date | Time |
|------------------|--------------|----------|---------------------------|------|------|-----------------------|------|------|
| Temp in °C: | | | | | | New | 12/2 | 8:5 |
| Received on ICE: | Y / N | | | | | | | |
| Sealed Cooler: | Y / N | | | | | | | |
| Samples Intact: | Y / N | | | | | | | |

Additional Comments:

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
Vacavelyn Jones
 SIGNATURE of SAMPLER:

 DATE Signed: (MM / DD / YY)
11/30/99

SEE REVERSE SIDE FOR INSTRUCTIONS

489721

Page: 2 of 2

Required Client Information: **Section A**

Required Client Information: **Section B**

To Be Completed by Pace Analytical and Client **Section C**

Company: Gambria Environmental
 Address: 1144 65th Street, Ste B
Oakland CA 94608
 Phone: (510) 420-3315 Fax: (510) 420-9170
 Report To: Khaled Rahman
 Invoice To: Scott Horton / BP Oil Company
 P.O.: 1076118
 Project Name: BP1117
 Project Number: 852-1546

Client Information (Check quote/contract):
 Requested Due Date: Standard *TAT:
 * Under 14 day turnaround subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
 Turn Around Time (TAT) in calendar days.

Quote Reference: BP Contract 15655A
 Project Manager: Lily Bayati
 Project #:
 Profile #:
 Requested Analysis:

| ITM # | Section D Required Client Information: | | | | | Valid Matrix Codes MATRIX CODE | DATE COLLECTED mm / dd / yy | TIME COLLECTED mm : hh a/p | # Containers | Preservatives | | | | | Remarks / Lab II | | |
|-------|--|---|---|---|----|-----------------------------------|--------------------------------|-------------------------------|--------------|---------------|--------------------------------|------------------|-----|------|------------------|---|------|
| | SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE | | | | | | | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | | Na ₂ S ₂ O ₃ | |
| 1 | E | X | 2 | 0 | 26 | ' | SL | 11/30/99 | 15:10p | 1 | X | | | | | | hold |
| 2 | E | X | 2 | 0 | 31 | ' | SL | ↓ | 15:31p | 1 | | | | | | | hold |
| 3 | E | X | 2 | 0 | 36 | ' | SL | ↓ | 15:37p | 1 | | | | | | | hold |
| 4 | C | O | M | P | | | SL | ↓ | 16:05p | 4 | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | |

| Sample Condition | Sample Notes | Item No. | Relinquished By / Company | Date | Time | Accepted By / Company | Date | Time |
|------------------|--------------|----------|---------------------------|------|------|-----------------------|------|------|
| Temp in °C: | | | | | | <u>NWS</u> | 12/2 | 8:5 |
| Received on ICE: | Y / N | | | | | | | |
| Sealed Cooler: | Y / N | | | | | | | |
| Samples Intact: | Y / N | | | | | | | |

Additional Comments:

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Macquelyn Jones
 SIGNATURE OF SAMPLER: [Signature]
 DATE Signed: (MM / DD / YY) 11/30/99

C A M B R I A



Appendix E

Groundwater Analytical Reports

Pace Analytical

Pace Analytical Services, Inc.
3970 Gilman St.
Long Beach, CA 90815

Tel: 562-498-9515
Fax: 562-597-0786

January 18, 2000

Mr. MORGAN HARGRAVE
BLAINE TECH SERVICES, INC.
1680 ROGERS AVE.
SAN JOSE, CA 95112

RE: Pace Project Number: 6037357
Client Project ID: BP 11117

Dear Mr. HARGRAVE:

Enclosed are the results of analyses for sample(s) received by the laboratory on January 6, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lily Bayati
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services, Inc.
3970 Gilman St.
Long Beach, CA 90815

Tel: 562-498-9515
Fax: 562-597-0786

DATE: 01/18/00
PAGE: 1

BLAINE TECH SERVICES, INC.
1680 ROGERS AVE.
SAN JOSE, CA 95112

Pace Project Number: 6037357
Client Project ID: BP 11117

Attn: Mr. MORGAN HARGRAVE
Phone: (408)573-0555 x218

Solid results are reported on a wet weight basis

Pace Sample No: 603162637 Date Collected: 01/04/00 Matrix: Water
Client Sample ID: A Date Received: 01/06/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|---|-----------------------|-------------------------------------|------|----------|---------|-----------|----------------------------------|
| Wet Chemistry | | | | | | | |
| Cyanide, Total Cyanide | ND | Method: EPA 335.3 mg/l | 0.01 | 01/07/00 | JKS | 57-12-5 | Prep Method: EPA 335.3 |
| Cyanide, Reactive, Water Cyanide, Reactive | ND | Method: SW-846 7.3.3.2 Modi mg/l | 0.1 | 01/11/00 | JKS | | Prep Method: SW-846 7.3.3.2 Modi |
| Sulfide, Reactive, Water Sulfide, Reactive | 2.2 | Method: SW-846 7.3.4.2 Modi mg/l | 0.5 | 01/11/00 | DOC | | Prep Method: SW-846 7.3.4.2 Modi |
| Long Beach Laboratory | | | | | | | |
| pH pH | 6.7 | Method: EPA 150.1 | | 01/07/00 | SC | | Prep Method: EPA 150.1 |
| Flash Point Flash Point | Sample did not ignite | Method: EPA 1010 at 212 degree F | | 01/11/00 | NT | | Prep Method: EPA 1010 |
| Total Sulfide Total Sulfide | ND | Method: EPA 376.1 mg/l | 0.05 | 01/13/00 | NT | | Prep method: EPA 376.1 |
| Metals, ICP | | | | | | | |
| Antimony | ND | Method: EPA 6010 mg/l | 0.1 | 01/10/00 | SC | 7440-36-0 | Prep Method: EPA 3010 |
| Arsenic | 0.188 | mg/l | 0.1 | 01/10/00 | SC | 7440-38-2 | |
| Barium | 1.94 | mg/l | 0.2 | 01/10/00 | SC | 7440-39-3 | |
| Beryllium | ND | mg/l | 0.01 | 01/10/00 | SC | 7440-41-7 | |
| Cadmium | 0.0109 | mg/l | 0.01 | 01/10/00 | SC | 7440-43-9 | |
| Chromium | 0.717 | mg/l | 0.01 | 01/10/00 | SC | 7440-47-3 | |
| Cobalt | 0.173 | mg/l | 0.02 | 01/10/00 | SC | 7440-48-4 | |
| Copper | 0.439 | mg/l | 0.1 | 01/10/00 | SC | 7440-50-8 | |
| Lead | 0.213 | mg/l | 0.02 | 01/10/00 | SC | 7439-92-1 | |
| Molybdenum | ND | mg/l | 0.05 | 01/10/00 | SC | 7439-98-7 | |
| Nickel | 0.99 | mg/l | 0.01 | 01/10/00 | SC | 7440-02-0 | |
| Selenium | ND | mg/l | 0.1 | 01/10/00 | SC | 7782-49-2 | |

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services, Inc.
3970 Gilman St.
Long Beach, CA 90815

Tel: 562-498-9515
Fax: 562-597-0786

DATE: 01/18/00
PAGE: 2

Pace Project Number: 6037357
Client Project ID: BP 11117

Pace Sample No: 603162637 Date Collected: 01/04/00 Matrix: Water
Client Sample ID: A Date Received: 01/06/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|----------------|---------|------------------|------|----------|---------|-----------------------|-----------|
| Silver | ND | mg/l | 0.01 | 01/10/00 | SC | 7440-22-4 | |
| Thallium | ND | mg/l | 0.1 | 01/10/00 | SC | 7440-28-0 | |
| Vanadium | 0.618 | mg/l | 0.01 | 01/10/00 | SC | 7440-62-2 | |
| Zinc | 1.19 | mg/l | 0.2 | 01/10/00 | SC | 7440-66-6 | |
| Date Digested | | | | 01/13/00 | | | |
| Mercury, CVAAS | | Method: EPA 7470 | | | | Prep Method: EPA 7470 | |
| Mercury | 1.84 | ug/l | 0.05 | 01/07/00 | SC | 7439-97-6 | |

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

DATE: 01/18/00

PAGE: 3

Pace Project Number: 6037357

Client Project ID: BP 11117

Pace Sample No: 603162645 Date Collected: 01/04/00 Matrix: Water
 Client Sample ID: B Date Received: 01/06/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|---|-----------------------|-------------------------------------|------|----------|---------|-----------|---|
| Wet Chemistry | | | | | | | |
| Cyanide, Total Cyanide | ND | Method: EPA 335.3 mg/l | 0.01 | 01/07/00 | JKS | 57-12-5 | Prep Method: EPA 335.3 |
| Cyanide, Reactive, Water Cyanide, Reactive | ND | Method: SW-846 7.3.3.2 Modi mg/l | 0.1 | 01/11/00 | JKS | | Prep Method: SW-846 7.3.3.2 Modi |
| Sulfide, Reactive, Water Sulfide, Reactive | 2 | Method: SW-846 7.3.4.2 Modi mg/l | 0.5 | 01/11/00 | | | Prep Method: SW-846 7.3.4.2 Modi DOC |
| Long Beach Laboratory | | | | | | | |
| pH pH | 7.4 | Method: EPA 150.1 | | 01/07/00 | | | Prep Method: EPA 150.1 SC |
| Flash Point Flash Point | sample did not ignite | Method: EPA 1010 @212 degree F | | 01/11/00 | | | Prep Method: EPA 1010 |
| Total Sulfide Total Sulfide | ND | Method: EPA 376.1 mg/l | 0.05 | 01/13/00 | | | Prep method: EPA 376.1 NT |
| Metals, ICP | | | | | | | |
| Antimony | ND | Method: EPA 6010 mg/l | 0.1 | 01/10/00 | SC | 7440-36-0 | Prep Method: EPA 3010 |
| Arsenic | ND | mg/l | 0.1 | 01/10/00 | SC | 7440-38-2 | |
| Barium | 12.7 | mg/l | 0.2 | 01/10/00 | SC | 7440-39-3 | |
| Beryllium | ND | mg/l | 0.01 | 01/10/00 | SC | 7440-41-7 | |
| Cadmium | ND | mg/l | 0.01 | 01/10/00 | SC | 7440-43-9 | |
| Chromium | 3.58 | mg/l | 0.01 | 01/10/00 | SC | 7440-47-3 | |
| Cobalt | 0.873 | mg/l | 0.02 | 01/10/00 | SC | 7440-48-4 | |
| Copper | 2.19 | mg/l | 0.1 | 01/10/00 | SC | 7440-50-8 | |
| Lead | 1.08 | mg/l | 0.02 | 01/10/00 | SC | 7439-92-1 | |
| Molybdenum | ND | mg/l | 0.05 | 01/10/00 | SC | 7439-98-7 | |
| Nickel | 5.14 | mg/l | 0.01 | 01/10/00 | SC | 7440-02-0 | |
| Selenium | ND | mg/l | 0.1 | 01/10/00 | SC | 7782-49-2 | |
| Silver | ND | mg/l | 0.01 | 01/10/00 | SC | 7440-22-4 | |
| Thallium | ND | mg/l | 0.1 | 01/10/00 | SC | 7440-28-0 | |
| Vanadium | 2.36 | mg/l | 0.01 | 01/10/00 | SC | 7440-62-2 | |
| Zinc | 6.1 | mg/l | 0.2 | 01/10/00 | SC | 7440-66-6 | |
| Date Digested | | | | 01/13/00 | | | |
| Mercury, CVAAS Mercury | 11.5 | Method: EPA 7470 ug/l | 0.05 | 01/07/00 | SC | 7439-97-6 | Prep Method: EPA 7470 |

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
3970 Gilman St.
Long Beach, CA 90815

Tel: 562-498-9515
Fax: 562-597-0786

DATE: 01/18/00
PAGE: 4

Pace Project Number: 6037357
Client Project ID: BP 11117

Pace Sample No: 603162678 Date Collected: 01/04/00 Matrix: Water
Client Sample ID: A Date Received: 01/06/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GC/MS VOCs by 8260 | Method: EPA 8260 | Prep Method: EPA 8260 |
|---------------------------|------------------|-----------------------|
| Dichlorodifluoromethane | ND ug/l 1 | 01/09/00 RG 75-71-8 |
| Chloromethane | ND ug/l 1 | 01/09/00 RG 74-87-3 |
| Vinyl Chloride | ND ug/l 1 | 01/09/00 RG 75-01-4 |
| Chloroethane | ND ug/l 1 | 01/09/00 RG 75-00-3 |
| Trichlorofluoromethane | ND ug/l 1 | 01/09/00 RG 75-69-4 |
| Methylene Chloride | ND ug/l 1 | 01/09/00 RG 75-09-2 |
| 1,1-Dichloroethene | ND ug/l 1 | 01/09/00 RG 75-35-4 |
| trans-1,2-Dichloroethene | ND ug/l 1 | 01/09/00 RG 156-60-5 |
| 1,1-Dichloroethane | ND ug/l 1 | 01/09/00 RG 75-34-3 |
| 2,2-Dichloropropane | ND ug/l 1 | 01/09/00 RG 594-20-7 |
| cis-1,2-Dichloroethene | ND ug/l 1 | 01/09/00 RG 156-59-2 |
| Chloroform | ND ug/l 1 | 01/09/00 RG 67-66-3 |
| Bromochloromethane | ND ug/l 1 | 01/09/00 RG 74-97-5 |
| 1,1,1-Trichloroethane | ND ug/l 1 | 01/09/00 RG 71-55-6 |
| Carbon Tetrachloride | ND ug/l 1 | 01/09/00 RG 56-23-5 |
| 1,1-Dichloropropene | ND ug/l 1 | 01/09/00 RG 563-58-6 |
| Benzene | 1.2 ug/l 1 | 01/09/00 RG 71-43-2 |
| 1,2-Dichloroethane | ND ug/l 1 | 01/09/00 RG 107-06-2 |
| Trichloroethene | ND ug/l 1 | 01/09/00 RG 79-01-6 |
| 1,2-Dichloropropane | ND ug/l 1 | 01/09/00 RG 78-87-5 |
| Bromodichloromethane | ND ug/l 1 | 01/09/00 RG 75-27-4 |
| Dibromomethane | ND ug/l 1 | 01/09/00 RG 74-95-3 |
| Toluene | ND ug/l 1 | 01/09/00 RG 108-88-3 |
| 1,1,2-Trichloroethane | ND ug/l 1 | 01/09/00 RG 79-00-5 |
| Tetrachloroethene | ND ug/l 1 | 01/09/00 RG 127-18-4 |
| 1,3-Dichloropropane | ND ug/l 1 | 01/09/00 RG 142-28-9 |
| Dibromochloromethane | ND ug/l 1 | 01/09/00 RG 124-48-1 |
| 1,2-Dibromoethane | ND ug/l 1 | 01/09/00 RG 106-93-4 |
| Chlorobenzene | ND ug/l 1 | 01/09/00 RG 108-90-7 |
| 1,1,1,2-Tetrachloroethane | ND ug/l 1 | 01/09/00 RG 630-20-6 |
| Ethylbenzene | ND ug/l 1 | 01/09/00 RG 100-41-4 |
| Xylenes (Total) | ND ug/l 2 | 01/09/00 RG |
| Styrene | ND ug/l 1 | 01/09/00 RG 100-42-5 |
| Bromoform | ND ug/l 1 | 01/09/00 RG 75-25-2 |
| Isopropylbenzene (Cumene) | ND ug/l 1 | 01/09/00 RG 98-82-8 |

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DATE: 01/18/00
 PAGE: 5

Pace Project Number: 6037357
 Client Project ID: BP 11117

Pace Sample No: 603162678 Date Collected: 01/04/00 Matrix: Water
 Client Sample ID: A Date Received: 01/06/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|-----------------------------|---------|-------|-----|----------|---------|-----------|-----------|
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 1 | 01/09/00 | RG | 79-34-5 | |
| Bromobenzene | ND | ug/l | 1 | 01/09/00 | RG | 108-86-1 | |
| 1,2,3-Trichloropropane | ND | ug/l | 1 | 01/09/00 | RG | 96-18-4 | |
| n-Propylbenzene | ND | ug/l | 1 | 01/09/00 | RG | 103-65-1 | |
| 2-Chlorotoluene | ND | ug/l | 1 | 01/09/00 | RG | 95-49-8 | |
| 1,3,5-Trimethylbenzene | ND | ug/l | 1 | 01/09/00 | RG | 108-67-8 | |
| 4-Chlorotoluene | ND | ug/l | 1 | 01/09/00 | RG | 106-43-4 | |
| 1,2,4-Trimethylbenzene | ND | ug/l | 1 | 01/09/00 | RG | 95-63-6 | |
| sec-Butylbenzene | ND | ug/l | 1 | 01/09/00 | RG | 135-98-8 | |
| tert-Butylbenzene | ND | ug/l | 1 | 01/09/00 | RG | 98-06-6 | |
| p-Isopropyltoluene | ND | ug/l | 1 | 01/09/00 | RG | 99-87-6 | |
| 1,3-Dichlorobenzene | ND | ug/l | 1 | 01/09/00 | RG | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/l | 1 | 01/09/00 | RG | 106-46-7 | |
| n-Butylbenzene | ND | ug/l | 1 | 01/09/00 | RG | 104-51-8 | |
| 1,2-Dichlorobenzene | ND | ug/l | 1 | 01/09/00 | RG | 95-50-1 | |
| 1,2-Dibromo-3-Chloropropane | ND | ug/l | 1 | 01/09/00 | RG | 96-12-8 | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 1 | 01/09/00 | RG | 120-82-1 | |
| Hexachlorobutadiene | ND | ug/l | 1 | 01/09/00 | RG | 87-68-3 | |
| Naphthalene | ND | ug/l | 1 | 01/09/00 | RG | 91-20-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 1 | 01/09/00 | RG | 87-61-6 | |
| Methyl-tert-butyl Ether | 420 | ug/l | 10 | 01/09/00 | RG | 1634-04-4 | |
| Dibromofluoromethane (S) | 98 | % | | 01/09/00 | RG | 1868-53-7 | |
| Toluene-d8 (S) | 90 | % | | 01/09/00 | RG | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 89 | % | | 01/09/00 | RG | 460-00-4 | |

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DATE: 01/18/00
PAGE: 6

Pace Project Number: 6037357
Client Project ID: BP 11117

Pace Sample No: 603162686 Date Collected: 01/04/00 Matrix: Water
Client Sample ID: B Date Received: 01/06/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GC/MS VOCs by 8260 | Method: EPA 8260 | Prep Method: EPA 8260 |
|---------------------------|------------------|---------------------------|
| Dichlorodifluoromethane | ND ug/l | 100 01/09/00 RG 75-71-8 |
| Chloromethane | ND ug/l | 100 01/09/00 RG 74-87-3 |
| Vinyl Chloride | ND ug/l | 100 01/09/00 RG 75-01-4 |
| Chloroethane | ND ug/l | 100 01/09/00 RG 75-00-3 |
| Trichlorofluoromethane | ND ug/l | 100 01/09/00 RG 75-69-4 |
| Methylene Chloride | ND ug/l | 100 01/09/00 RG 75-09-2 |
| 1,1-Dichloroethene | ND ug/l | 100 01/09/00 RG 75-35-4 |
| trans-1,2-Dichloroethene | ND ug/l | 100 01/09/00 RG 156-60-5 |
| 1,1-Dichloroethane | ND ug/l | 100 01/09/00 RG 75-34-3 |
| 2,2-Dichloropropane | ND ug/l | 100 01/09/00 RG 594-20-7 |
| cis-1,2-Dichloroethene | ND ug/l | 100 01/09/00 RG 156-59-2 |
| Chloroform | ND ug/l | 100 01/09/00 RG 67-66-3 |
| Bromochloromethane | ND ug/l | 100 01/09/00 RG 74-97-5 |
| 1,1,1-Trichloroethane | ND ug/l | 100 01/09/00 RG 71-55-6 |
| Carbon Tetrachloride | ND ug/l | 100 01/09/00 RG 56-23-5 |
| 1,1-Dichloropropene | ND ug/l | 100 01/09/00 RG 563-58-6 |
| Benzene | 9400 ug/l | 100 01/09/00 RG 71-43-2 |
| 1,2-Dichloroethane | ND ug/l | 100 01/09/00 RG 107-06-2 |
| Trichloroethene | ND ug/l | 100 01/09/00 RG 79-01-6 |
| 1,2-Dichloropropane | ND ug/l | 100 01/09/00 RG 78-87-5 |
| Bromodichloromethane | ND ug/l | 100 01/09/00 RG 75-27-4 |
| Dibromomethane | ND ug/l | 100 01/09/00 RG 74-95-3 |
| Toluene | 23000 ug/l | 1000 01/09/00 RG 108-88-3 |
| 1,1,2-Trichloroethane | ND ug/l | 100 01/09/00 RG 79-00-5 |
| Tetrachloroethene | ND ug/l | 100 01/09/00 RG 127-18-4 |
| 1,3-Dichloropropane | ND ug/l | 100 01/09/00 RG 142-28-9 |
| Dibromochloromethane | ND ug/l | 100 01/09/00 RG 124-48-1 |
| 1,2-Dibromoethane | ND ug/l | 100 01/09/00 RG 106-93-4 |
| Chlorobenzene | ND ug/l | 100 01/09/00 RG 108-90-7 |
| 1,1,1,2-Tetrachloroethane | ND ug/l | 100 01/09/00 RG 630-20-6 |
| Ethylbenzene | 3900 ug/l | 100 01/09/00 RG 100-41-4 |
| Xylenes (Total) | 21000 ug/l | 200 01/09/00 RG |
| Styrene | ND ug/l | 100 01/09/00 RG 100-42-5 |
| Bromoform | ND ug/l | 100 01/09/00 RG 75-25-2 |
| Isopropylbenzene (Cumene) | 100 ug/l | 100 01/09/00 RG 98-82-8 |

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DATE: 01/18/00
PAGE: 7

Pace Project Number: 6037357
Client Project ID: BP 11117

Pace Sample No: 603162686 Date Collected: 01/04/00 Matrix: Water
Client Sample ID: B Date Received: 01/06/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|-----------------------------|---------|-------|------|----------|---------|-----------|-----------|
| 1,1,2,2-Tetrachloroethane | ND | ug/l | 100 | 01/09/00 | RG | 79-34-5 | |
| Bromobenzene | ND | ug/l | 100 | 01/09/00 | RG | 108-86-1 | |
| 1,2,3-Trichloropropane | ND | ug/l | 100 | 01/09/00 | RG | 96-18-4 | |
| n-Propylbenzene | 380 | ug/l | 100 | 01/09/00 | RG | 103-65-1 | |
| 2-Chlorotoluene | ND | ug/l | 100 | 01/09/00 | RG | 95-49-8 | |
| 1,3,5-Trimethylbenzene | 810 | ug/l | 100 | 01/09/00 | RG | 108-67-8 | |
| 4-Chlorotoluene | ND | ug/l | 100 | 01/09/00 | RG | 106-43-4 | |
| 1,2,4-Trimethylbenzene | 3000 | ug/l | 100 | 01/09/00 | RG | 95-63-6 | |
| sec-Butylbenzene | ND | ug/l | 100 | 01/09/00 | RG | 135-98-8 | |
| tert-Butylbenzene | ND | ug/l | 100 | 01/09/00 | RG | 98-06-6 | |
| p-Isopropyltoluene | ND | ug/l | 100 | 01/09/00 | RG | 99-87-6 | |
| 1,3-Dichlorobenzene | ND | ug/l | 100 | 01/09/00 | RG | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/l | 100 | 01/09/00 | RG | 106-46-7 | |
| n-Butylbenzene | ND | ug/l | 100 | 01/09/00 | RG | 104-51-8 | |
| 1,2-Dichlorobenzene | ND | ug/l | 100 | 01/09/00 | RG | 95-50-1 | |
| 1,2-Dibromo-3-Chloropropane | ND | ug/l | 100 | 01/09/00 | RG | 96-12-8 | |
| 1,2,4-Trichlorobenzene | ND | ug/l | 100 | 01/09/00 | RG | 120-82-1 | |
| Hexachlorobutadiene | ND | ug/l | 100 | 01/09/00 | RG | 87-68-3 | |
| Naphthalene | 740 | ug/l | 100 | 01/09/00 | RG | 91-20-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/l | 100 | 01/09/00 | RG | 87-61-6 | |
| Methyl-tert-butyl Ether | 21000 | ug/l | 1000 | 01/09/00 | RG | 1634-04-4 | |
| Dibromofluoromethane (S) | 100 | % | | 01/09/00 | RG | 1868-53-7 | |
| Toluene-d8 (S) | 93 | % | | 01/09/00 | RG | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 90 | % | | 01/09/00 | RG | 460-00-4 | |

REPORT OF LABORATORY ANALYSIS

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DATE: 01/18/00
PAGE: 8

Pace Project Number: 6037357
Client Project ID: BP 11117

PARAMETER FOOTNOTES

| | |
|-----|----------------------|
| ND | Not Detected |
| NC | Not Calculable |
| PRL | Pace Reporting Limit |
| (S) | Surrogate |

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QUALITY CONTROL DATA

DATE: 01/18/00
PAGE: 9

BLAINE TECH SERVICES, INC.
1680 ROGERS AVE.
SAN JOSE, CA 95112

Pace Project Number: 6037357
Client Project ID: BP 11117

Attn: Mr. MORGAN HARGRAVE
Phone: (408)573-0555 x218

QC Batch ID: 76251
Analysis Method: EPA 335.3
Associated Pace Samples: 603162637

QC Batch Method: EPA 335.3
Analysis Description: Cyanide, Total
603162645

METHOD BLANK: 603163163
Associated Pace Samples:

| Parameter | Units | 603162637 | 603162645 | PRL | Footnotes |
|-----------|-------|-----------|---------------------|------|-----------|
| Cyanide | mg/l | ND | Method Blank Result | 0.01 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603163171 603163189

| Parameter | Units | 603160508 | Spike Conc. | Matrix Spike Result | Spike % Rec | Matrix Sp. Dup. Result | Spike Dup % Rec | RPD | Footnotes |
|-----------|-------|-----------|-------------|---------------------|-------------|------------------------|-----------------|-----|-----------|
| Cyanide | mg/l | 0.04800 | 0.1000 | 0.09200 | 44.0 | 0.1410 | 93.0 | 72 | 1,2 |

LABORATORY CONTROL SAMPLE: 603163197

| Parameter | Units | Spike Conc. | LCS Result | Spike % Rec | Footnotes |
|-----------|-------|-------------|------------|-------------|-----------|
| Cyanide | mg/l | 0.1000 | 0.09400 | 94.0 | |

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QUALITY CONTROL DATA

DATE: 01/18/00
PAGE: 10

BLAINE TECH SERVICES, INC.
1680 ROGERS AVE.
SAN JOSE, CA 95112

Pace Project Number: 6037357
Client Project ID: BP 11117

Attn: Mr. MORGAN HARGRAVE
Phone: (408)573-0555 x218

QC Batch ID: 76298
Analysis Method: EPA 150.1
Associated Pace Samples: 603162637

QC Batch Method: EPA 150.1
Analysis Description: pH
603162645

SAMPLE DUPLICATE: 603166323

| Parameter | Units | 603162645 | Dup. Result | RPD | Footnotes |
|-----------|-------|-----------|----------------|-----|-----------|
| pH | | 7.400 | 7.400 | 0 | |

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DATE: 01/18/00
PAGE: 11

BLAINE TECH SERVICES, INC.
1680 ROGERS AVE.
SAN JOSE, CA 95112

Pace Project Number: 6037357
Client Project ID: BP 11117

Attn: Mr. MORGAN HARGRAVE
Phone: (408)573-0555 x218

QC Batch ID: 76374
Analysis Method: EPA 8260
Associated Pace Samples:

603162678 603162686
QC Batch Method: EPA 8260
Analysis Description: GC/MS VOCs by 8260
603162686

METHOD BLANK: 603170119
Associated Pace Samples:

| Parameter | Units | Method Blank Result | PRL | Footnotes |
|--------------------------|-------|---------------------------|-----|-----------|
| Dichlorodifluoromethane | ug/l | ND | 1 | |
| Chloromethane | ug/l | ND | 1 | |
| Vinyl Chloride | ug/l | ND | 1 | |
| Chloroethane | ug/l | ND | 1 | |
| Trichlorofluoromethane | ug/l | ND | 1 | |
| Methylene Chloride | ug/l | ND | 1 | |
| 1,1-Dichloroethene | ug/l | ND | 1 | |
| trans-1,2-Dichloroethene | ug/l | ND | 1 | |
| 1,1-Dichloroethane | ug/l | ND | 1 | |
| 2,2-Dichloropropane | ug/l | ND | 1 | |
| cis-1,2-Dichloroethene | ug/l | ND | 1 | |
| Chloroform | ug/l | ND | 1 | |
| Bromochloromethane | ug/l | ND | 1 | |
| 1,1,1-Trichloroethane | ug/l | ND | 1 | |
| Carbon Tetrachloride | ug/l | ND | 1 | |
| 1,1-Dichloropropene | ug/l | ND | 1 | |
| Benzene | ug/l | ND | 1 | |
| 1,2-Dichloroethane | ug/l | ND | 1 | |
| Trichloroethene | ug/l | ND | 1 | |
| 1,2-Dichloropropane | ug/l | ND | 1 | |
| Bromodichloromethane | ug/l | ND | 1 | |
| Dibromomethane | ug/l | ND | 1 | |
| Toluene | ug/l | ND | 1 | |
| 1,1,2-Trichloroethane | ug/l | ND | 1 | |
| Tetrachloroethene | ug/l | ND | 1 | |

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QUALITY CONTROL DATA

DATE: 01/18/00
PAGE: 12

Pace Project Number: 6037357
Client Project ID: BP 11117

METHOD BLANK: 603170119

Associated Pace Samples:

603162678

603162686

| Parameter | Units | Method Blank Result | PRL | Footnotes |
|--------------------------------|-------|---------------------------|-----|-----------|
| 1,3-Dichloropropane | ug/l | ND | 1 | |
| Dibromochloromethane | ug/l | ND | 1 | |
| 1,2-Dibromoethane | ug/l | ND | 1 | |
| Chlorobenzene | ug/l | ND | 1 | |
| 1,1,1,2-Tetrachloroethane | ug/l | ND | 1 | |
| Ethylbenzene | ug/l | ND | 1 | |
| m,p-Xylene | ug/l | ND | 2 | |
| o-Xylene (1,2-Dimethylbenzene) | ug/l | ND | 1 | |
| Styrene | ug/l | ND | 1 | |
| Bromoforn | ug/l | ND | 1 | |
| Isopropylbenzene (Cumene) | ug/l | ND | 1 | |
| 1,1,2,2-Tetrachloroethane | ug/l | ND | 1 | |
| Bromobenzene | ug/l | ND | 1 | |
| 1,2,3-Trichloropropane | ug/l | ND | 1 | |
| n-Propylbenzene | ug/l | ND | 1 | |
| 2-Chlorotoluene | ug/l | ND | 1 | |
| 1,3,5-Trimethylbenzene | ug/l | ND | 1 | |
| 4-Chlorotoluene | ug/l | ND | 1 | |
| 1,2,4-Trimethylbenzene | ug/l | ND | 1 | |
| sec-Butylbenzene | ug/l | ND | 1 | |
| tert-Butylbenzene | ug/l | ND | 1 | |
| p-Isopropyltoluene | ug/l | ND | 1 | |
| 1,3-Dichlorobenzene | ug/l | ND | 1 | |
| 1,4-Dichlorobenzene | ug/l | ND | 1 | |
| n-Butylbenzene | ug/l | ND | 1 | |
| 1,2-Dichlorobenzene | ug/l | ND | 1 | |
| 1,2-Dibromo-3-Chloropropane | ug/l | ND | 1 | |
| 1,2,4-Trichlorobenzene | ug/l | ND | 1 | |
| Hexachlorobutadiene | ug/l | ND | 1 | |
| Naphthalene | ug/l | ND | 1 | |
| 1,2,3-Trichlorobenzene | ug/l | ND | 1 | |
| Methyl-tert-butyl Ether | ug/l | ND | 1 | |
| Dibromofluoromethane (S) | % | 98 | | |
| Toluene-d8 (S) | % | 93 | | |
| 4-Bromofluorobenzene (S) | % | 93 | | |

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QUALITY CONTROL DATA

DATE: 01/18/00
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Pace Project Number: 6037357
 Client Project ID: BP 11117

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603170135 603170143 | | | | | | | | | |
|--|-------|-----------|-------------|---------------------|-------------|------------------------|-----------------|-----|-----------|
| Parameter | Units | 603165721 | Spike Conc. | Matrix Spike Result | Spike % Rec | Matrix Sp. Dup. Result | Spike Dup % Rec | RPD | Footnotes |
| 1,1-Dichloroethene | ug/l | 0 | 50 | 58.70 | 117 | 59.80 | 120 | 2 | |
| Benzene | ug/l | 0 | 50 | 49.50 | 99.0 | 50.60 | 101 | 2 | |
| Trichloroethene | ug/l | 32.40 | 50 | 89.60 | 114 | 92.50 | 120 | 5 | |
| Toluene | ug/l | 0 | 50 | 46.30 | 92.6 | 47.70 | 95.4 | 3 | |
| Chlorobenzene | ug/l | 0 | 50 | 49.00 | 98.0 | 50.70 | 101 | 3 | |
| Dibromofluoromethane (S) | | | | | 106 | | 105 | | |
| Toluene-d8 (S) | | | | | 97 | | 96 | | |
| 4-Bromofluorobenzene (S) | | | | | 78 | | 77 | | |

LABORATORY CONTROL SAMPLE: 603170127

| Parameter | Units | Spike Conc. | LCS Result | Spike % Rec | Footnotes |
|--------------------------|-------|-------------|------------|-------------|-----------|
| 1,1-Dichloroethene | ug/l | 50 | 57.40 | 115 | |
| Benzene | ug/l | 50 | 49.40 | 98.8 | |
| Trichloroethene | ug/l | 50 | 57.60 | 115 | |
| Toluene | ug/l | 50 | 46.60 | 93.2 | |
| Chlorobenzene | ug/l | 50 | 49.20 | 98.4 | |
| Dibromofluoromethane (S) | | | | 106 | |
| Toluene-d8 (S) | | | | 96 | |
| 4-Bromofluorobenzene (S) | | | | 76 | |

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Fax: 562-597-0786

QUALITY CONTROL DATA

DATE: 01/18/00
PAGE: 14

BLAINE TECH SERVICES, INC.
1680 ROGERS AVE.
SAN JOSE, CA 95112

Pace Project Number: 6037357
Client Project ID: BP 11117

Attn: Mr. MORGAN HARGRAVE
Phone: (408)573-0555 x218

QC Batch ID: 76404
Analysis Method: SW-846 7.3.4.2 Modi
Associated Pace Samples: 603162637

QC Batch Method: SW-846 7.3.4.2 Modi
Analysis Description: Sulfide, Reactive, Water
603162645

METHOD BLANK: 603171190
Associated Pace Samples:

603162637 603162645

| Parameter | Units | Method Blank Result | PRL | Footnotes |
|-------------------|-------|---------------------------|-----|-----------|
| Sulfide, Reactive | mg/l | ND | 0.5 | |

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DATE: 01/18/00
PAGE: 15

BLAINE TECH SERVICES, INC.
1680 ROGERS AVE.
SAN JOSE, CA 95112

Pace Project Number: 6037357
Client Project ID: BP 11117

Attn: Mr. MORGAN HARGRAVE
Phone: (408)573-0555 x218

QC Batch ID: 76405
Analysis Method: SW-846 7.3.3.2 Modi
Associated Pace Samples: 603162637

QC Batch Method: SW-846 7.3.3.2 Modi
Analysis Description: Cyanide, Reactive, Water
603162645

METHOD BLANK: 603171208
Associated Pace Samples:

| Parameter | Units | 603162637 | 603162645 | Method Blank Result | PRL | Footnotes |
|-------------------|-------|-----------|-----------|---------------------|-----|-----------|
| Cyanide, Reactive | mg/l | | | ND | 0.1 | |

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DATE: 01/18/00
PAGE: 16

BLAINE TECH SERVICES, INC.
1680 ROGERS AVE.
SAN JOSE, CA 95112

Pace Project Number: 6037357
Client Project ID: BP 11117

Attn: Mr. MORGAN HARGRAVE
Phone: (408)573-0555 x218

QC Batch ID: 76545
Analysis Method: EPA 6010
Associated Pace Samples: 603162637 603162645

QC Batch Method: EPA 3010
Analysis Description: Metals, ICP

METHOD BLANK: 603176736
Associated Pace Samples:

| Parameter | Units | 603162637 | | 603162645 | | Footnotes |
|------------|-------|---------------------|------|---------------------|------|-----------|
| | | Method Blank Result | PRL | Method Blank Result | PRL | |
| Antimony | mg/l | ND | 0.1 | ND | 0.1 | |
| Arsenic | mg/l | ND | 0.1 | ND | 0.1 | |
| Barium | mg/l | ND | 0.2 | ND | 0.2 | |
| Beryllium | mg/l | ND | 0.01 | ND | 0.01 | |
| Cadmium | mg/l | ND | 0.01 | ND | 0.01 | |
| Chromium | mg/l | ND | 0.01 | ND | 0.01 | |
| Cobalt | mg/l | ND | 0.02 | ND | 0.02 | |
| Copper | mg/l | ND | 0.1 | ND | 0.1 | |
| Lead | mg/l | ND | 0.02 | ND | 0.02 | |
| Molybdenum | mg/l | ND | 0.05 | ND | 0.05 | |
| Nickel | mg/l | ND | 0.01 | ND | 0.01 | |
| Selenium | mg/l | ND | 0.1 | ND | 0.1 | |
| Silver | mg/l | ND | 0.01 | ND | 0.01 | |
| Thallium | mg/l | ND | 0.1 | ND | 0.1 | |
| Vanadium | mg/l | ND | 0.01 | ND | 0.01 | |
| Zinc | mg/l | ND | 0.2 | ND | 0.2 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603176769 603176777

| Parameter | Units | 603162637 | | 603162645 | | Matrix Sp. Dup. Result | Spike Dup % Rec | RPD | Footnotes |
|-----------|-------|--------------------|-------------|---------------------|-------------|------------------------|-----------------|-----|-----------|
| | | Matrix Spike Conc. | Spike % Rec | Matrix Spike Result | Spike % Rec | | | | |
| Antimony | mg/l | 0.004900 | 1.000 | 0.2223 | 21.7 | 0.2047 | 20.0 | 8 | |
| Arsenic | mg/l | 0.1877 | 1.000 | 1.018 | 83.0 | 0.9947 | 80.7 | 3 | |
| Barium | mg/l | 1.936 | 1.000 | 2.920 | 98.4 | 2.766 | 83.0 | 17 | |

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QUALITY CONTROL DATA

DATE: 01/18/00
 PAGE: 17

Pace Project Number: 6037357
 Client Project ID: BP 11117

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603176769 603176777 | | | | | | | | | |
|--|-------|-----------|-------------|---------------------|-------------|------------------------|-----------------|-----|-----------|
| Parameter | Units | 603162637 | Spike Conc. | Matrix Spike Result | Spike % Rec | Matrix Sp. Dup. Result | Spike Dup % Rec | RPD | Footnotes |
| Beryllium | mg/l | 0.009700 | 1.000 | 0.8724 | 86.3 | 0.8449 | 83.5 | 3 | |
| Cadmium | mg/l | 0.01090 | 1.000 | 0.8894 | 87.9 | 0.8440 | 83.3 | 5 | |
| Chromium | mg/l | 0.7171 | 1.000 | 1.577 | 86.0 | 1.588 | 87.1 | 1 | |
| Cobalt | mg/l | 0.1732 | 1.000 | 1.011 | 83.8 | 0.9933 | 82.0 | 2 | |
| Copper | mg/l | 0.4386 | 1.000 | 1.300 | 86.1 | 1.290 | 85.1 | 1 | |
| Lead | mg/l | 0.2130 | 1.000 | 1.047 | 83.4 | 1.020 | 80.7 | 3 | |
| Molybdenum | mg/l | 0.009300 | 1.000 | 0.6938 | 68.5 | 0.7044 | 69.5 | 1 | |
| Nickel | mg/l | 0.9895 | 1.000 | 1.791 | 80.2 | 1.775 | 78.6 | 2 | |
| Selenium | mg/l | 0 | 1.000 | 0.7806 | 78.1 | 0.7844 | 78.4 | 0 | |
| Silver | mg/l | 0 | 1.000 | 0.7800 | 78.0 | 0.7400 | 74.0 | 5 | |
| Thallium | mg/l | 0.002600 | 1.000 | 0.8305 | 82.8 | 0.8113 | 80.9 | 2 | |
| Vanadium | mg/l | 0.6182 | 1.000 | 1.458 | 84.0 | 1.461 | 84.3 | 0 | |
| Zinc | mg/l | 1.190 | 1.000 | 2.126 | 93.6 | 2.219 | 103 | 9 | |

| LABORATORY CONTROL SAMPLE & LCSD: 603176744 603176751 | | | | | | | | | |
|---|-------|-------------|------------|-------------|-------------|-----------------|-----|-----------|--|
| Parameter | Units | Spike Conc. | LCS Result | Spike % Rec | LCSD Result | Spike Dup % Rec | RPD | Footnotes | |
| Antimony | mg/l | 1.000 | 0.8713 | 87.1 | 0.8807 | 88.1 | 1 | | |
| Arsenic | mg/l | 1.000 | 0.8790 | 87.9 | 0.8867 | 88.7 | 1 | | |
| Barium | mg/l | 1.000 | 0.08741 | 8.74 | 0.8682 | 86.8 | 163 | | |
| Beryllium | mg/l | 1.000 | 0.8655 | 86.6 | 0.8624 | 86.2 | 0 | | |
| Cadmium | mg/l | 1.000 | 0.8774 | 87.7 | 0.8800 | 88.0 | 0 | | |
| Chromium | mg/l | 1.000 | 0.8639 | 86.4 | 0.8643 | 86.4 | 0 | | |
| Cobalt | mg/l | 1.000 | 0.8852 | 88.5 | 0.8837 | 88.4 | 0 | | |
| Copper | mg/l | 1.000 | 0.8855 | 88.6 | 0.8831 | 88.3 | 0 | | |
| Lead | mg/l | 1.000 | 0.8729 | 87.3 | 0.8792 | 87.9 | 1 | | |
| Molybdenum | mg/l | 1.000 | 0.8771 | 87.7 | 0.8827 | 88.3 | 1 | | |
| Nickel | mg/l | 1.000 | 0.8719 | 87.2 | 0.8730 | 87.3 | 0 | | |
| Selenium | mg/l | 1.000 | 0.8813 | 88.1 | 0.8814 | 88.1 | 0 | | |
| Silver | mg/l | 1.000 | 0.8600 | 86.0 | 0.8600 | 86.0 | 0 | | |
| Thallium | mg/l | 1.000 | 0.8514 | 85.1 | 0.8653 | 86.5 | 2 | | |
| Vanadium | mg/l | 1.000 | 0.8797 | 88.0 | 0.8817 | 88.2 | 0 | | |
| Zinc | mg/l | 1.000 | 0.9089 | 90.9 | 0.9059 | 90.6 | 0 | | |

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QUALITY CONTROL DATA

DATE: 01/18/00
 PAGE: 18

BLAINE TECH SERVICES, INC.
 1680 ROGERS AVE.
 SAN JOSE, CA 95112

Pace Project Number: 6037357
 Client Project ID: BP 11117

Attn: Mr. MORGAN HARGRAVE
 Phone: (408)573-0555 x218

QC Batch ID: 76550 QC Batch Method: EPA 7470
 Analysis Method: EPA 7470 Analysis Description: Mercury, CVAAS
 Associated Pace Samples: 603162637 603162645

METHOD BLANK: 603176850
 Associated Pace Samples:

| Parameter | Units | 603162637 | 603162645 Method Blank Result | PRL | Footnotes |
|-----------|-------|-----------|--|-----|-----------|
| Mercury | ug/l | | 0.16 | 0.1 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603176884 603176892

| Parameter | Units | 603162645 Spike Conc. | Matrix Spike Result | Spike % Rec | Matrix Sp. Dup. Result | Spike Dup % Rec | RPD | Footnotes |
|-----------|-------|-----------------------------|---------------------------|----------------|------------------------------|-----------------------|-----|-----------|
| Mercury | ug/l | 11.50 | 4.000 | 31.20 | 492 | 35.00 | 588 | 18 |

LABORATORY CONTROL SAMPLE & LCSD: 603176868 603176876

| Parameter | Units | Spike Conc. | LCS Result | Spike % Rec | LCSD Result | Spike Dup % Rec | RPD | Footnotes |
|-----------|-------|----------------|---------------|----------------|----------------|-----------------------|-----|-----------|
| Mercury | ug/l | 4.000 | 3.540 | 88.5 | 3.600 | 90.0 | 2 | |

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DATE: 01/18/00
PAGE: 19

Pace Project Number: 6037357
Client Project ID: BP 11117

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
RPD Relative Percent Difference
(S) Surrogate
[1] Matrix spike outside of control limits, LCS was within control limits, therefore data accepted.
[2] RPD outlier. LCS was within control limits, therefore data accepted.

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY

15792 A 6037357
Page 1 of 1

| | | | | | |
|--|---|--|---------------------------------------|---|----------------------------------|
| CONSULTANT'S NAME Blaine Tech Services, Inc. | | CONSULTANT'S ADDRESS 1680 Rogers Ave., San Jose CA 95112 | | CONSULTANT PROJECT NUMBER 000104 F1 | |
| BP SITE NUMBER 11117 | BP SITE / FACILITY ADDRESS 7210 Bancroft, Oakland | | | CONSULTANT CONTRACT NUMBER | |
| CONSULTANT PROJECT MANAGER Morgan Hargrave | | PHONE NUMBER (408) 573-0555 x 218 | FAX NUMBER (408) 573-7771 | | |
| BP CONTACT Scott Hooton | BP ADDRESS 295 SW 41st Street, Suite N, Renton WA | | PHONE NUMBER (425) 251-0689 | | FAX NO. (425) 251-0736 |
| LAB CONTACT Pace - Lily Bayati | LABORATORY ADDRESS 3970 Gilman Street, Long Beach, CA | | PHONE NUMBER (562) 498-9515 | | FAX NO. (562) 597-0786 |
| BP CONTACT REQUESTING RUSH TAT (Print BP Contact Name) | | RUSH REQUESTED OF (Print Consultant Contact Name) | DATE/TIME | SHIPMENT DATE | SHIPMENT METHOD |

TAT: 24 HOURS 48 HOURS 72 HOURS Standard 7 or 14 Days

ANALYSIS REQUIRED

| SAMPLE DESCRIPTION | COLLECTION DATE | COLLECTION TIME | MATRIX SOIL/WATER | * CONTAINERS | | PRESERVATIVE | VOC's, BTEX, MTBE by \$260 | CAM 17 Metals (Total) | Total Cyanide | Total Sulfide | Ignitability | Corrosivity | Reactivity* | COMMENTS |
|--------------------|-----------------|-----------------|-------------------|----------------|------------|--------------|----------------------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------|
| | | | | NO. | TYPE (VOL) | LAB SAMPLE # | | | | | | | | |
| A | 1-4-00 | 900 | W | 9 | | | X | X | X | X | X | X | X | |
| B | 1-4-00 | 1007 | W | 9 | | | X | X | X | X | X | X | X | |
| ... | ... | ... | ... | ... | | | ... | ... | ... | ... | ... | ... | ... | |

| | | | | | | | | | | | |
|---|--|---------------|-------------|---|--|---------------|-------------|---------------------|--|--|--|
| SAMPLED BY (Please Print Name) MIKE STEWART | | | | SAMPLED BY (Signature) | | | | ADDITIONAL COMMENTS | | | |
| RELINQUISHED BY / AFFILIATION (Print Name / Signature) | | DATE | TIME | ACCEPTED BY / AFFILIATION (Print Name / Signature) | | DATE | TIME | | | | |
| | | 1/4/00 | 1400 | NOOP TOWA NAD W | | 1/6/00 | 8:45 | | | | |

2451 Estand Way
Pleasant Hill, CA 94523-3911
(925) 682-7200 FAX 686-0399

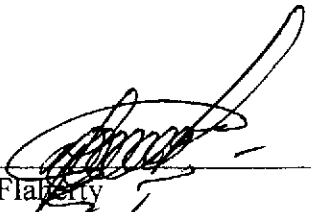
**Hazardous Waste Aquatic Toxicity Screening Test Results for
Two Liquid Samples (Project: Blaine Tech Services; Project #000104 F1)**

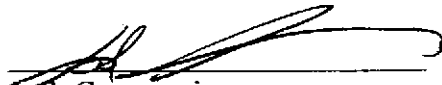
Prepared For:
**Khaled Rahman
Cambria Environmental
1144 65th Street, Suite B
Oakland, CA 94608**

BES Sample #17562-3

Prepared By:
**Block Environmental Services, Inc.
2451 Estand Way
Pleasant Hill, CA 94523-3911
(925) 682-7200**

January 19, 2000


Toma Flaherty
Laboratory Scientist


Josh Gravenmier
Laboratory Manager

1. INTRODUCTION

The California Department of Substances Control has adopted regulations (R-45-78) which define criteria for the identification of hazardous wastes. These criteria are codified in Chapter 11, Article 3 of Title 22 of the California Code of Regulations. Toxicity to aquatic life, specifically fish, is one of the criteria used to gauge the hazardous potential of a waste. An acute 96-hour bioassay is used to determine the LC50 as defined in Section 66261.24(a)(6) of these regulations. This 96-hour LC50 value serves as the numerical indicator of the toxicity of a waste to aquatic life. The sample is deemed hazardous if the LC50 is less than 500 mg/L.

This report describes the procedures used and the results obtained for the hazardous waste aquatic toxicity screening test(s) performed by Block Environmental Services (BES) for Cambria Environmental.

BES is an Environmental Laboratory Accreditation Program certified laboratory (#1812).

2. MATERIALS AND METHODS

2.1 TEST ORGANISMS

- Fathead Minnow, *Pimephales promelas*, obtained from a commercial supplier.

2.2 TEST PROCEDURES

A detailed procedure for this test is outlined in laboratory standard operating procedures (SOPs) kept at the BES laboratory. These SOPs are based upon the following references:

- California's Title 22 Code, Section #66261.24(a)(6); *Static Acute Bioassay Procedures for Hazardous Waste Samples*, Polisini and Miller, 1988, California Department of Fish and Game
- *Guidelines for Performing Static Acute Toxicity Fish Bioassays in Municipal and Industrial Wastewaters*, Kopperdahl, 1976, California Department of Fish and Game
- *Standard Methods for the Examination of Water and Wastewater*, 19th Edition, American Public Health Association, 1995.

2.3 DATA ANALYSIS

All toxicity testing results will be analyzed using an appropriate statistical method to determine a LC50 and the corresponding 95% confidence limits.

3. RESULTS

| 3.1 Sample Identification | 3.2 BES Sample # | 3.3 Sample Collection Date | 3.4 Date Received | 3.5 Testing Period |
|---------------------------|------------------|----------------------------|-------------------|--------------------|
| A | 17562 | 1/4/00 | 1/4/00 | 1/10/00 – 1/14/00 |
| B | 17563 | 1/4/00 | 1/4/00 | 1/10/00 – 1/14/00 |

3.6 *P. promelas* TEST RESULTS

| Sample ID (BES Sample #) | Sample 96 Hour Percent Survival | | | |
|-----------------------------|---------------------------------|----------|----------|----------|
| | Control | 250 mg/L | 500 mg/L | 750 mg/L |
| 17562 | 95 | 100 | 100 | 95 |
| 17563 | 95 | 95 | 100 | 100 |

3.7 STATISTICAL ANALYSIS

| Sample ID (BES Sample #) | Sample 96 Hour Statistics | | |
|-----------------------------|---------------------------|-----------------------------------|-----------------------------------|
| | LC50 (mg/L) | 95% Upper Confidence Limit (mg/L) | 95% Lower Confidence Limit (mg/L) |
| 17562 | >750 | NA | NA |
| 17563 | >750 | NA | NA |

NA = Not Available

3.8 NOTES

The photocopied data sheet(s) and chain-of-custody for testing are attached. If you have any questions concerning this report please contact the BES laboratory, (925) 682 - 7200.

BLOCK ENVIRONMENTAL SERVICES

Hazardous Waste Screening Test Data Sheet

Client: Cambria Client ID #: A BES Sample #: 17562
 Sample Matrix: [] Solid [x] Liquid Control Water: CFU/DJ
 Species: Pronelas Common Name: Fathead Stock Date: 12/21/99
 Avg. Fish Length (mm): 16.8 Avg. Fish Weight (g): 16.8 Max. > 1.5 times Min. [x] L. [x] W.
0.020

| Concentration (mg/L) | Survival | | D.O. | | pH | | Temperature | | Technician |
|----------------------|----------|----|------|------|-----|-----|-------------|------|---|
| | A | B | A | B | A | B | A | B | |
| Control | 10 | 10 | 7.7 | 7.8 | 7.7 | 7.7 | 20.2 | 20.2 | Tech: <u>ST</u> Date: <u>1/10/00</u> Time: <u>13:33</u> |
| 250 | 10 | 10 | 7.7 | 7.7 | 7.7 | 7.7 | 20.2 | 20.2 | |
| 500 | 10 | 10 | 7.6 | 7.6 | 7.7 | 7.7 | 20.1 | 20.2 | |
| 750 | 10 | 10 | 7.5 | 7.5 | 7.7 | 7.7 | 20.3 | 20.3 | |
| Control | 10 | 10 | 8.8 | 8.6 | 7.5 | 7.5 | 19.9 | 20.0 | Tech: <u>TF</u> Date: <u>1-11</u> Time: <u>18:06</u> |
| 250 | 10 | 10 | 8.5 | 7.8 | 7.5 | 7.5 | 19.9 | 20.0 | |
| 500 | 10 | 10 | 8.2 | 8.6 | 7.5 | 7.5 | 20.0 | 20.1 | |
| 750 | 10 | 10 | 8.4 | 8.2 | 7.5 | 7.5 | 20.1 | 20.2 | |
| Control | 10 | 10 | 10.6 | 11.0 | 7.5 | 7.5 | 19.0 | 19.0 | Tech: <u>PT</u> Date: <u>1-12</u> Time: <u>13:00</u> |
| 250 | 10 | 10 | 9.2 | 8.5 | 7.4 | 7.3 | 19.0 | 19.0 | |
| 500 | 10 | 10 | 9.5 | 10.0 | 7.3 | 7.4 | 19.0 | 19.1 | |
| 750 | 10 | 10 | 9.4 | 8.3 | 7.3 | 7.3 | 19.0 | 19.0 | |
| Control | 10 | 10 | 7.6 | 7.2 | 7.6 | 7.6 | 20.2 | 20.0 | Tech: <u>OT</u> Date: <u>1-12</u> Time: <u>14:30</u> |
| 250 | 10 | 10 | 7.5 | 6.6 | 7.4 | 7.4 | 19.9 | 19.8 | |
| 500 | 10 | 10 | 7.6 | 8.0 | 7.4 | 7.4 | 19.8 | 19.9 | |
| 750 | 10 | 10 | 7.5 | 7.9 | 7.3 | 7.5 | 19.9 | 19.9 | |
| Control | 10 | 9 | 10.5 | 9.7 | 7.7 | 7.6 | 20.0 | 20.0 | Tech: <u>MG</u> Date: <u>1-14</u> Time: <u>18:20</u> |
| 250 | 10 | 10 | 9.2 | 8.5 | 7.5 | 7.4 | 19.9 | 19.9 | |
| 500 | 10 | 10 | 9.8 | 10.4 | 7.6 | 7.7 | 19.9 | 20.0 | |
| 750 | 9 | 10 | 9.3 | 8.5 | 7.5 | 7.4 | 20.0 | 20.0 | |

Chemistries:

| | Initial | | Final | |
|---|---------|----------|---------|----------|
| | Control | 750 mg/L | Control | 750 mg/L |
| Hardness (mg/L as CaCO ₃) | 84 | 54 | 60 | 40 |
| Alkalinity (mg/L as CaCO ₃) | 40 | 60 | 64 | 40 |
| Conductivity (µS/cm) | 210 | 212 | 222 | 221 |

Notes:

96 hour LC50: > 750 mg/L
 95% Upper Confidence Limit: NA

LC50 Method: NA
 95% Lower Confidence Limit: NA

Test Supervisor: John Kudibang

QA/QC Check: [Signature]

Due Date: 1-17

BLOCK ENVIRONMENTAL SERVICES

Hazardous Waste Screening Test Data Sheet

Client: Cambria Client ID #: B BES Sample #: 17563
 Sample Matrix: [] Solid [X] Liquid Control Water: CFU 101
 Species: Promelas Common Name: Sathead Stock Date: 12-21-55
 Avg. Fish Length (mm): 16.8 Avg. Fish Weight (g): 0.020 Max. > 1.5 times Min. [X] L. [X] W.

| Concentration (mg/L) | Survival | | D.O. | | pH | | Temperature | | Technician |
|----------------------|----------|----|------|-----|-----|-----|-------------|------|---|
| | A | B | A | B | A | B | A | B | |
| Control | 10 | 10 | 7.5 | 7.2 | 7.7 | 7.7 | 20.4 | 20.2 | Tech: <u>ST</u> Date: <u>1-10-08</u> Time: <u>13:32</u> |
| 250 | 10 | 10 | 7.5 | 7.5 | 7.7 | 7.7 | 20.1 | 20.1 | |
| 500 | 10 | 10 | 7.7 | 7.5 | 7.7 | 7.7 | 20.2 | 20.1 | |
| 750 | 10 | 10 | 7.6 | 7.7 | 7.7 | 7.7 | 20.2 | 20.2 | |
| Control | 10 | 10 | 8.8 | 8.6 | 7.5 | 7.5 | 19.9 | 20.0 | Tech: <u>TF</u> Date: <u>1-11</u> Time: <u>18:05</u> |
| 250 | 10 | 10 | 8.2 | 8.4 | 7.5 | 7.5 | 19.9 | 20.1 | |
| 500 | 10 | 10 | 8.1 | 8.4 | 7.5 | 7.5 | 20.1 | 20.0 | |
| 750 | 10 | 10 | 8.6 | 8.6 | 7.5 | 7.5 | 20.2 | 20.1 | |
| Control | 10 | 10 | 8.6 | 8.0 | 7.5 | 7.5 | 19.0 | 19.0 | Tech: <u>TF</u> Date: <u>1-12</u> Time: <u>13:00</u> |
| 250 | 9 | 10 | 8.2 | 8.5 | 7.3 | 7.2 | 19.2 | 19.1 | |
| 500 | 10 | 10 | 8.7 | 8.0 | 7.2 | 7.2 | 19.1 | 19.2 | |
| 750 | 10 | 10 | 8.0 | 8.5 | 7.2 | 7.3 | 19.2 | 19.3 | |
| Control | 10 | 10 | 7.6 | 7.2 | 7.6 | 7.6 | 20.2 | 20.0 | Tech: <u>TF</u> Date: <u>1-13</u> Time: <u>14:30</u> |
| 250 | 9 | 10 | 8.0 | 7.8 | 7.3 | 7.3 | 20.0 | 20.0 | |
| 500 | 10 | 10 | 7.3 | 7.6 | 7.3 | 7.3 | 20.0 | 20.0 | |
| 750 | 10 | 10 | 8.0 | 7.8 | 7.3 | 7.3 | 20.0 | 20.1 | |
| Control | 10 | 9 | 10.5 | 9.7 | 7.7 | 7.6 | 20.0 | 20.0 | Tech: <u>MG/ST</u> Date: <u>1-14</u> Time: <u>18:20</u> |
| 250 | 9 | 10 | 9.0 | 9.6 | 7.5 | 7.6 | 20.0 | 20.1 | |
| 500 | 10 | 10 | 9.0 | 9.7 | 7.5 | 7.6 | 20.2 | 20.2 | |
| 750 | 10 | 10 | 9.6 | 9.8 | 7.5 | 7.6 | 20.2 | 20.2 | |

Chemistries:

| | Initial | | Final | |
|---|---------|----------|---------|----------|
| | Control | 750 mg/L | Control | 750 mg/L |
| Hardness (mg/L as CaCO ₃) | 84 | 54 | 60 | 60 |
| Alkalinity (mg/L as CaCO ₃) | 40 | 60 | 64 | 50 |
| Conductivity (µS/cm) | 210 | 203 | 222 | 212 |

Notes: _____

96 hour LC50: > 750 mg/L
 95% Upper Confidence Limit: NA

LC50 Method: NA
 95% Lower Confidence Limit: NA

Test Supervisor: Johy Landberg

QA/QC Check: [Signature]

489544

Required Client Information: **Section A**

Required Client Information: **Section B**

Page: 1 of 1

To Be Completed by Pace Analytical and Client **Section C**

Company: **Skane Tech Services**
 Address: **1680 Rogers Ave.**
San Jose Ca. 95112
 Phone: **(408) 573-0555** Fax: _____
 Report To: _____
 Invoice To: _____
 P.O.: _____
 Project Name: _____
 Project Number: **000104 F1**

Client Information (Check quote/contract):
 Requested Due Date: _____ TAT: _____
 * Under 14 day turnaround subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
 Turn Around Time (TAT) in calendar days.

Quote Reference: _____
 Project Manager: _____
 Project #: _____
 Profile #: _____
 Requested Analysis: _____

Section D Required Client Information:
SAMPLE ID
 One character per box.
 (A-Z, 0-9 / . -)
 Sample IDs MUST BE UNIQUE

Valid Matrix Codes ←

| | |
|--------|------|
| MATRIX | CODE |
| WATER | WT |
| SOIL | SL |
| OIL | OL |
| WIPE | WP |
| AIR | AR |
| TISSUE | TS |
| OTHER | OT |

| DATE COLLECTED mm / dd / yy | TIME COLLECTED mm : hh a/p | # Containers | Preservatives | | | | |
|--------------------------------|-------------------------------|--------------|---------------|--------------------------------|------------------|-----|------|
| | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH |

Fish Toxicity
Fat Acid Methyl Ester
1 lb Cambria BT 17502
Through Cambria
Call Morgan D Blane Tech

| ITEM # | SAMPLE ID | MATRIX CODE | DATE COLLECTED | TIME COLLECTED | # Containers | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Remarks / Lab ID |
|--------|-----------|-------------|----------------|----------------|--------------|-------------|--------------------------------|------------------|-----|------|---|------------------|
| 1 | A | WT | 1-4-00 | 9:00 | 1 | | | | | | | 17502 |
| 2 | B | WT | 1-4-00 | 1:00 | 1 | | | | | | | 17503 |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |

| Sample Condition | Sample Notes | Item No. | Relinquished By / Company | Date | Time | Accepted By / Company | Date | Time |
|------------------|--------------|----------|---------------------------|------|-------|---------------------------|------|-------|
| Temp in °C: | | | <i>Mike Stewart / BTS</i> | 1-4 | 12:21 | <i>John Kumborg / BES</i> | 1-4 | 12:21 |
| Received on ICE: | Y / N | | | | | | | |
| Sealed Cooler: | Y / N | | | | | | | |
| Samples Intact: | Y / N | | | | | | | |

Additional Comments:

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: *Mike Stewart*
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: (MM / DD / YY) **1-4-00**

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL



Pace Analytical Services, Inc.
3970 Gilman Street
Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

March 24, 2000

Mr. KHALED RAHMAN
CAMBRIA ENVIRONMENTAL
1144 65TH STREET
SUITE B
OAKLAND, CA 94608

RE: Pace Project Number: 6039379
Client Project ID: BP 11117

Dear Mr. RAHMAN:

Enclosed are the results of analyses for sample(s) received by the laboratory on March 17, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Lily Bayati".

Lily Bayati
Project Manager

Enclosures



Pace Analytical Services, Inc.
 3970 Gilman Street
 Long Beach, CA 90815
 Phone: 562.498.9515
 Fax: 562.597.0786

DATE: 03/24/00
 PAGE: 1

CAMBRIA ENVIRONMENTAL
 1144 65TH STREET
 SUITE B
 OAKLAND, CA 94608

Pace Project Number: 6039379
 Client Project ID: BP 11117

Attn: Mr. KHALED RAHMAN
 Phone:

Solid results are reported on a wet weight basis

| | | | | | |
|-------------------|-----------|-----------------|----------|---------|-------|
| Pace Sample No: | 603324575 | Date Collected: | 03/16/00 | Matrix: | Water |
| Client Sample ID: | EX-1BEF | Date Received: | 03/17/00 | | |

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015, Water | Method: EPA 8015/8020 Modif | Prep Method: EPA 8015/8020 Modif |
|----------------------------|-----------------------------|----------------------------------|
| Gasoline | 36000 ug/l 7500 | 03/21/00 VN |
| Benzene | 4700 ug/l 75 | 03/21/00 VN 71-43-2 |
| Toluene | 13000 ug/l 75 | 03/21/00 VN 108-88-3 |
| Ethylbenzene | 1100 ug/l 75 | 03/21/00 VN 100-41-4 |
| Methyl-tert-butyl Ether | 4800 ug/l 75 | 03/21/00 VN 1634-04-4 |
| Xylene (Total) | 9800 ug/l 75 | 03/21/00 VN 1330-20-7 |
| a,a,a-Trifluorotoluene (S) | 111 % | 03/21/00 VN 2164-17-2 |



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 Long Beach, CA 90815
 Phone: 562.498.9515
 Fax: 562.597.0786

DATE: 03/24/00
 PAGE: 2

Pace Project Number: 6039379
 Client Project ID: BP 11117

Pace Sample No: 603324583 Date Collected: 03/16/00 Matrix: Water
 Client Sample ID: EX-2BEF Date Received: 03/17/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015, Water | | Method: EPA 8015/8020 Modif | | | Prep Method: EPA 8015/8020 Modif | | |
|----------------------------|-----|-----------------------------|-----|----------|----------------------------------|-----------|---|
| Gasoline | ND | ug/l | 50 | 03/21/00 | VN | | 1 |
| Benzene | ND | ug/l | 0.5 | 03/21/00 | VN | 71-43-2 | |
| Toluene | ND | ug/l | 0.5 | 03/21/00 | VN | 108-88-3 | |
| Ethylbenzene | ND | ug/l | 0.5 | 03/21/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 140 | ug/l | 75 | 03/21/00 | VN | 1634-04-4 | |
| Xylene (Total) | ND | ug/l | 0.5 | 03/21/00 | VN | 1330-20-7 | |
| a.a.a-Trifluorotoluene (S) | 102 | % | | 03/21/00 | VN | 2164-17-2 | |



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Fax: 562.597.0786

DATE: 03/24/00

PAGE: 3

Pace Project Number: 6039379

Client Project ID: BP 11117

Pace Sample No: 603324591 Date Collected: 03/16/00 Matrix: Water
Client Sample ID: EX-2AFT Date Received: 03/17/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015. Water | | Method: EPA 8015/8020 Modif | | | Prep Method: EPA 8015/8020 Modif | | |
|----------------------------|------|-----------------------------|-----|----------|----------------------------------|-----------|--|
| Gasoline | ND | ug/l | 50 | 03/21/00 | VN | | |
| Benzene | ND | ug/l | 0.5 | 03/21/00 | VN | 71-43-2 | |
| Toluene | ND | ug/l | 0.5 | 03/21/00 | VN | 108-88-3 | |
| Ethylbenzene | ND | ug/l | 0.5 | 03/21/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 59 | ug/l | 0.5 | 03/21/00 | VN | 1634-04-4 | |
| Xylene (Total) | 0.55 | ug/l | 0.5 | 03/21/00 | VN | 1330-20-7 | |
| a,a,a-Trifluorotoluene (S) | 103 | % | | 03/21/00 | VN | 2164-17-2 | |



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DATE: 03/24/00
 PAGE: 4

Pace Project Number: 6039379
 Client Project ID: BP 11117

Pace Sample No: 603324609 Date Collected: 03/16/00 Matrix: Water
 Client Sample ID: MW-2AFT Date Received: 03/17/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015, Water | Method: EPA 8015/8020 Modif | Prep Method: EPA 8015/8020 Modif |
|----------------------------|-----------------------------|----------------------------------|
| Gasoline | 150000 ug/l 7500 | 03/21/00 VN |
| Benzene | 20000 ug/l 750 | 03/21/00 VN 71-43-2 |
| Toluene | 37000 ug/l 750 | 03/21/00 VN 108-88-3 |
| Ethylbenzene | 3900 ug/l 750 | 03/21/00 VN 100-41-4 |
| Methyl-tert-butyl Ether | 52000 ug/l 750 | 03/21/00 VN 1634-04-4 |
| Xylene (Total) | 25000 ug/l 750 | 03/21/00 VN 1330-20-7 |
| a,a,a-Trifluorotoluene (S) | 113 x | 03/21/00 VN 2164-17-2 |



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Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

DATE: 03/24/00

PAGE: 5

Pace Project Number: 6039379

Client Project ID: BP 11117

PARAMETER FOOTNOTES

| | |
|-----|----------------------|
| ND | Not Detected |
| NC | Not Calculable |
| PRL | Pace Reporting Limit |
| (S) | Surrogate |
| [1] | Solvent Peak Present |



Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

DATE: 03/24/00
 PAGE: 6

CAMBRIA ENVIRONMENTAL
 1144 65TH STREET
 SUITE B
 OAKLAND, CA 94608

Pace Project Number: 6039379
 Client Project ID: BP 11117

Attn: Mr. KHALED RAHMAN
 Phone:

QC Batch ID: 79911 QC Batch Method: EPA 8015/8020 Modif
 Analysis Method: EPA 8015/8020 Modif Analysis Description: GAS BTEX by 8015, Water
 Associated Pace Samples: 603324575 603324583 603324591 603324609

METHOD BLANK: 603326760
 Associated Pace Samples:

| Parameter | Units | 603324575 | 603324583 | 603324591 | 603324609 |
|----------------------------|-------|--------------|-----------|-----------|-----------|
| | | Method Blank | | | |
| | | Result | PRL | Footnotes | |
| Gasoline | ug/l | ND | 12 | | |
| Benzene | ug/l | ND | 0.05 | | |
| Toluene | ug/l | ND | 0.05 | | |
| Ethylbenzene | ug/l | ND | 0.05 | | |
| Methyl-tert-butyl Ether | ug/l | ND | 0.05 | | |
| Xylene (Total) | ug/l | ND | 0.05 | | |
| a,a,a-Trifluorotoluene (S) | % | 102 | | | |

LABORATORY CONTROL SAMPLE & LCSD: 603326778 603326786

| Parameter | Units | 603326778 | | 603326786 | | Spike Dup | | Footnotes |
|----------------------------|-------|-------------|------------|-------------|-------------|-----------|-----|-----------|
| | | Spike Conc. | LCS Result | Spike % Rec | LCSD Result | % Rec | RPD | |
| Gasoline | ug/l | 40 | 39.80 | 99.5 | 40.80 | 102 | 2 | |
| Benzene | ug/l | 6.667 | 7.030 | 105 | 7.080 | 106 | 1 | |
| Toluene | ug/l | 6.667 | 7.220 | 108 | 7.250 | 109 | 1 | |
| Ethylbenzene | ug/l | 6.667 | 7.420 | 111 | 7.460 | 112 | 1 | |
| Methyl-tert-butyl Ether | ug/l | 6.667 | 6.410 | 96.2 | 7.520 | 113 | 16 | |
| a,a,a-Trifluorotoluene (S) | | | | 104 | | 103 | | |

REPORT OF LABORATORY ANALYSIS

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DATE: 03/24/00

PAGE: 7

Pace Project Number: 6039379

Client Project ID: BP 11117

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
RPD Relative Percent Difference
(S) Surrogate

493775

Required Client Information: Section A
 Company: CAMBERIA ENV. TECH.
 Address: 1144 65th STREET
 EMERYVILLE, CA.
 94608
 Phone: (570) 420-0700
 Fax: (570) 420-0701

Required Client Information: Section B
 Report To: RYAN ED RAHMAN
 Invoice To: SCOTT MOYON - BP OIL
 P.O. J197381
 Project Name: BP-1117
 Project Number: 852-1546

Page: / of /

To Be Completed by Pace Analytical and Client **Section C**
 Quote Reference: 16162.A
 Project Manager:
 Project #: 6039379
 Profile #:
 Requested Analysis:

Section D Required Client Information:
SAMPLE ID
 One character per box.
 (A-Z, 0-9 / -)
 Sample IDs MUST BE UNIQUE

Valid Matrix Codes
 MATRIX CODE
 WATER WT
 SOIL SL
 OIL OL
 WIPE WP
 AIR AR
 TISSUE TS
 OTHER OT

MATRIX CODE

DATE COLLECTED
 TIME COLLECTED
 # Containers
 Preservatives
 Unpreserved
 H₂SO₄
 HNO₃
 HCl
 NaOH
 Na₂S₂O₃

| IM # | Sample ID | MATRIX CODE | DATE COLLECTED | TIME COLLECTED | # Containers | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Remarks / Lab II |
|------|-----------|-------------|----------------|----------------|--------------|-------------|--------------------------------|------------------|-----|------|---|------------------|
| 1 | EX-1BEF | WT | 03/16/00 | 7:25a | 4 | | | | X | | | |
| 2 | EX-2BEF | WT | | 7:40a | 4 | | | | | | | |
| 3 | EX-2AFT | WT | | 12:25p | 4 | | | | | | | |
| 4 | MW-2AFT | WT | | 1:00p | 4 | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |

| Sample Condition | Sample Notes | Item No. | Relinquished By / Company | Date | Time | Accepted By / Company | Date | Time |
|------------------|--------------|----------|---------------------------|------|------|-----------------------|------|------|
| Temp in °C: | | | | | | | | |
| Received on ICE: | Y/N | | | | | | | |
| Sealed Cooler: | Y/N | | | | | | | |
| Samples Intact: | Y/N | | | | | | | |

Additional Comments:

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: MARK ERICKSON
 SIGNATURE OF SAMPLER: [Signature]
 DATE Signed: (MM/DD/YY) 03/16/00



Pace Analytical Services, Inc.
3970 Gilman Street
Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

March 30, 2000

Mr. KHALED RAHMAN
CAMBRIA ENVIRONMENTAL
1144 65TH STREET
SUITE B
OAKLAND, CA 94608

RE: Pace Project Number: 6039504
Client Project ID: BP 11117

Dear Mr. RAHMAN:

Enclosed are the results of analyses for sample(s) received by the laboratory on March 24, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lily Bayati
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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DATE: 03/30/00
PAGE: 1

CAMBRIA ENVIRONMENTAL
1144 65TH STREET
SUITE B
OAKLAND, CA 94608

Pace Project Number: 6039504
Client Project ID: BP 11117

Attn: Mr. KHALED RAHMAN
Phone:

Solid results are reported on a wet weight basis

| | | | | | |
|-------------------|-----------|-----------------|----------|---------|-------|
| Pace Sample No: | 603335845 | Date Collected: | 03/23/00 | Matrix: | Water |
| Client Sample ID: | MW-2 | Date Received: | 03/24/00 | | |

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015, Water | Method: EPA 8015/8020 Modif | Prep Method: EPA 8015/8020 Modif |
|----------------------------|-----------------------------|----------------------------------|
| Gasoline | 92000 ug/l 75000 | 03/29/00 VN |
| Benzene | 13000 ug/l 750 | 03/29/00 VN 71-43-2 |
| Toluene | 27000 ug/l 750 | 03/29/00 VN 108-88-3 |
| Ethylbenzene | 2900 ug/l 750 | 03/29/00 VN 100-41-4 |
| Methyl-tert-butyl Ether | 34000 ug/l 750 | 03/29/00 VN 1634-04-4 |
| Xylene (Total) | 19000 ug/l 750 | 03/29/00 VN 1330-20-7 |
| a.a.a-Trifluorotoluene (S) | 91 % | 03/29/00 VN 2164-17-2 |

REPORT OF LABORATORY ANALYSIS

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DATE: 03/30/00
 PAGE: 2

Pace Project Number: 6039504
 Client Project ID: BP 11117

Pace Sample No: 603335852 Date Collected: 03/23/00 Matrix: Water
 Client Sample ID: EX-1 Date Received: 03/24/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015, Water | Method: EPA 8015/8020 Modif | | | Prep Method: EPA 8015/8020 Modif | | | |
|----------------------------|-----------------------------|------|------|----------------------------------|----|-----------|--|
| Gasoline | 61000 | ug/l | 7500 | 03/29/00 | VN | | |
| Benzene | 9800 | ug/l | 75 | 03/29/00 | VN | 71-43-2 | |
| Toluene | 21000 | ug/l | 75 | 03/29/00 | VN | 108-88-3 | |
| Ethylbenzene | 1600 | ug/l | 75 | 03/29/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 9300 | ug/l | 75 | 03/29/00 | VN | 1634-04-4 | |
| Xylene (Total) | 24000 | ug/l | 75 | 03/29/00 | VN | 1330-20-7 | |
| a.a.a-Trifluorotoluene (S) | 109 | % | | 03/29/00 | VN | 2164-17-2 | |

REPORT OF LABORATORY ANALYSIS

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DATE: 03/30/00
 PAGE: 3

Pace Project Number: 6039504
 Client Project ID: BP 11117

Pace Sample No: 603335860 Date Collected: 03/23/00 Matrix: Water
 Client Sample ID: EX-2 Date Received: 03/24/00

Parameters Results Units PRL Analyzed Analyst CAS# Footnotes

Long Beach Laboratory

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|----------------------------|---------|-------|-----|----------|---------|-----------|-----------|
| GAS BTEX by 8015, Water | | | | | | | |
| Gasoline | 800 | ug/l | 50 | 03/29/00 | VN | | 1,2 |
| Benzene | ND | ug/l | 0.5 | 03/29/00 | VN | 71-43-2 | |
| Toluene | ND | ug/l | 0.5 | 03/29/00 | VN | 108-88-3 | |
| Ethylbenzene | ND | ug/l | 0.5 | 03/29/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 2600 | ug/l | 75 | 03/29/00 | VN | 1634-04-4 | |
| Xylene (Total) | 0.54 | ug/l | 0.5 | 03/29/00 | VN | 1330-20-7 | |
| a,a,a-Trifluorotoluene (S) | 104 | % | | 03/29/00 | VN | 2164-17-2 | |

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
3970 Gilman Street
Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

DATE: 03/30/00

PAGE: 4

Pace Project Number: 6039504
Client Project ID: BP 11117

PARAMETER FOOTNOTES

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
(S) Surrogate
[1] Sample does not fit gasoline profile.
[2] Concentration of MTBE in the calculation of TPH-G is an estimate only.

REPORT OF LABORATORY ANALYSIS

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 Fax: 562.597.0786

QUALITY CONTROL DATA

DATE: 03/30/00
 PAGE: 5

CAMBRIA ENVIRONMENTAL
 1144 65TH STREET
 SUITE B
 OAKLAND, CA 94608

Pace Project Number: 6039504
 Client Project ID: BP 11117

Attn: Mr. KHALED RAHMAN
 Phone:

QC Batch ID: 80382 QC Batch Method: EPA 8015/8020 Modif
 Analysis Method: EPA 8015/8020 Modif Analysis Description: GAS BTEX by 8015, Water
 Associated Pace Samples: 603335845 603335852 603335860

METHOD BLANK: 603346909
 Associated Pace Samples:

| Parameter | Units | 603335845 | 603335852 | 603335860 | Footnotes |
|----------------------------|-------|-----------|---------------------------|-----------|-----------|
| | | | Method Blank Result | PRL | |
| Gasoline | ug/l | | ND | 12 | |
| Benzene | ug/l | | ND | 0.05 | |
| Toluene | ug/l | | ND | 0.05 | |
| Ethylbenzene | ug/l | | ND | 0.05 | |
| Methyl-tert-butyl Ether | ug/l | | ND | 0.05 | |
| Xylene (Total) | ug/l | | ND | 0.05 | |
| a,a,a-Trifluorotoluene (S) | % | | 86 | | |

| Parameter | Units | LABORATORY CONTROL SAMPLE & LCSD: 603346917 | | 603346925 | | Spike | | Footnotes |
|----------------------------|-------|---|---------------|----------------|----------------|--------------|-----|-----------|
| | | Conc. | LCS Result | Spike % Rec | LCSD Result | Dup % Rec | RPD | |
| Gasoline | ug/l | 40 | 38.60 | 96.5 | 38.10 | 95.3 | 1 | |
| Benzene | ug/l | 6.667 | 6.380 | 95.7 | 6.430 | 96.5 | 1 | |
| Toluene | ug/l | 6.667 | 6.780 | 102 | 6.800 | 102 | 0 | |
| Ethylbenzene | ug/l | 6.667 | 7.000 | 105 | 7.200 | 108 | 3 | |
| Methyl-tert-butyl Ether | ug/l | 6.667 | 6.850 | 103 | 6.280 | 94.2 | 9 | |
| a,a,a-Trifluorotoluene (S) | | | | 94 | | 97 | | |

REPORT OF LABORATORY ANALYSIS

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Long Beach, CA 90815
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Fax: 562.597.0786

DATE: 03/30/00

PAGE: 6

Pace Project Number: 6039504
Client Project ID: BP 11117

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

| | |
|-----|-----------------------------|
| ND | Not Detected |
| NC | Not Calculable |
| PRL | Pace Reporting Limit |
| RPD | Relative Percent Difference |
| (S) | Surrogate |

REPORT OF LABORATORY ANALYSIS

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493747

Required Client Information: Section A
 Company: **CAMBRIA**
 Address: **2694 Bishop Drive, Suite 105
 San Ramon, CA 94583**
 Phone: **925-973-3125** Fax: **925-275-3204**

Required Client Information: Section B
 Report To: **Clifford Perini**
 Invoice To: **Clifford Perini**
 P.O. **BP 1117**
 Project Number: **852-1546**

Page: 1 of 1

To Be Completed by Pace Analytical and Client **Section C**
 Quote Reference: **16192A**
 Project Manager:
 Project #: **6039504**
 Profile #:
 Requested Analysis: *TPH EPA 8015
BTEX EPA 8020
MTBE EPA 8020*

Client Information (Check quote/contract):
 Requested Due Date: TAT:
 * Under 14 day turnaround subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
 Turn Around Time (TAT) in calendar days.

| IM # | Section D Required Client Information: | | | Valid Matrix Codes MATRIX CODE | DATE COLLECTED mm / dd / yy | TIME COLLECTED mm: hh a/p | # Containers | Preservatives | | | | | | Remarks / Lab | |
|------|---|---|---|-----------------------------------|--------------------------------|------------------------------|--------------|---------------|----|-----|------|---|-------------|---------------|--------------------------------|
| | SAMPLE ID | | | | | | | WT | OL | HCl | NaOH | Na ₂ S ₂ O ₃ | | | |
| | One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE | | | | | | | | | | | | Unpreserved | | H ₂ SO ₄ |
| 1 | MW | - | 2 | | WT | 3/23/00 | 1245 | 4 | | | | | | | |
| 2 | EX | - | 1 | | WT | 3/23/00 | 1310 | 4 | | | | | | | |
| 3 | EX | - | 2 | | WT | 3/23/00 | 1330 | 4 | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |

| Sample Condition | Sample Notes | Item No. | Relinquished By / Company | Date | Time | Accepted By / Company | Date | Time |
|------------------|----------------|----------|------------------------------------|------|------|-----------------------|------|------|
| Temp in °C: | | | <i>* Clifford Perini / CAMBRIA</i> | | | <i>NWS VS</i> | 3/24 | 10: |
| Received on ICE: | <i>(Y) / N</i> | | | | | | | |
| Sealed Cooler: | <i>(Y) / N</i> | | | | | | | |
| Samples Intact: | <i>Y / N</i> | | | | | | | |

Additional Comments:

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
** Clifford Perini*
 SIGNATURE of SAMPLER:
** Clifford Perini*
 DATE Signed: (MM / DD / YY)
3/23/00

SEE REVERSE SIDE FOR INSTRUCTIONS



Pace Analytical Services, Inc.
3970 Gilman Street
Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

April 20, 2000

Mr. KHALED RAHMAN
CAMBRIA ENVIRONMENTAL
1144 65TH STREET
SUITE B
OAKLAND, CA 94608

RE: Pace Project Number: 6039719
Client Project ID: BP 11117

Dear Mr. RAHMAN:

Enclosed are the results of analyses for sample(s) received by the laboratory on March 31, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lily Bayati
Project Manager

Enclosures

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DATE: 04/20/00
 PAGE: 1

CAMBRIA ENVIRONMENTAL
 1144 65TH STREET
 SUITE B
 OAKLAND, CA 94608

Pace Project Number: 6039719
 Client Project ID: BP 11117

Attn: Mr. KHALED RAHMAN
 Phone:

Solid results are reported on a wet weight basis

| | | | | | |
|-------------------|-----------|-----------------|----------|---------|-------|
| Pace Sample No: | 603353335 | Date Collected: | 03/30/00 | Matrix: | Water |
| Client Sample ID: | EX-2 BEF | Date Received: | 03/31/00 | | |

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015, Water | | Method: EPA 8015/8020 Modif | | | Prep Method: EPA 8015/8020 Modif | | |
|----------------------------|-----|-----------------------------|-----|----------|----------------------------------|-----------|-----|
| Gasoline | 180 | ug/l | 50 | 04/03/00 | VN | | 1,2 |
| Benzene | ND | ug/l | 0.5 | 04/03/00 | VN | 71-43-2 | |
| Toluene | ND | ug/l | 0.5 | 04/03/00 | VN | 108-88-3 | |
| Ethylbenzene | ND | ug/l | 0.5 | 04/03/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 420 | ug/l | 38 | 04/03/00 | VN | 1634-04-4 | |
| Xylene (Total) | ND | ug/l | 0.5 | 04/03/00 | VN | 1330-20-7 | |
| a,a,a-Trifluorotoluene (S) | 94 | % | | 04/03/00 | VN | 2164-17-2 | |

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DATE: 04/20/00

PAGE: 2

Pace Project Number: 6039719

Client Project ID: BP 11117

| | | | | | |
|-------------------|-----------|-----------------|----------|---------|-------|
| Pace Sample No: | 603353343 | Date Collected: | 03/30/00 | Matrix: | Water |
| Client Sample ID: | EX-1 BEF | Date Received: | 03/31/00 | | |

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|----------------------------|---------|-------|------|----------|---------|-----------|----------------------------------|
| GAS BTEX by 8015, Water | | | | | | | |
| | | | | | | | Method: EPA 8015/8020 Modif |
| | | | | | | | Prep Method: EPA 8015/8020 Modif |
| Gasoline | 38000 | ug/l | 7500 | 04/03/00 | VN | | |
| Benzene | 3500 | ug/l | 75 | 04/03/00 | VN | 71-43-2 | |
| Toluene | 5800 | ug/l | 75 | 04/03/00 | VN | 108-88-3 | |
| Ethylbenzene | 620 | ug/l | 75 | 04/03/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 3100 | ug/l | 75 | 04/03/00 | VN | 1634-04-4 | |
| Xylene (Total) | 6500 | ug/l | 75 | 04/03/00 | VN | 1330-20-7 | |
| a.a.a-Trifluorotoluene (S) | 99 | % | | 04/03/00 | VN | 2164-17-2 | |

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DATE: 04/20/00
 PAGE: 3

Pace Project Number: 6039719
 Client Project ID: BP 11117

Pace Sample No: 603353350 Date Collected: 03/30/00 Matrix: Water
 Client Sample ID: MW-2 BEF Date Received: 03/31/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015, Water | Method: EPA 8015/8020 Modif | | | Prep Method: EPA 8015/8020 Modif | | |
|----------------------------|-----------------------------|------|------|----------------------------------|----|-----------|
| Gasoline | 130000 | ug/l | 7500 | 04/03/00 | VN | |
| Benzene | 14000 | ug/l | 75 | 04/03/00 | VN | 71-43-2 |
| Toluene | 28000 | ug/l | 75 | 04/03/00 | VN | 108-88-3 |
| Ethylbenzene | 3000 | ug/l | 75 | 04/03/00 | VN | 100-41-4 |
| Methyl-tert-butyl Ether | 21000 | ug/l | 75 | 04/03/00 | VN | 1634-04-4 |
| Xylene (Total) | 19000 | ug/l | 75 | 04/03/00 | VN | 1330-20-7 |
| a,a,a-Trifluorotoluene (S) | 100 | % | | 04/03/00 | VN | 2164-17-2 |

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DATE: 04/20/00
 PAGE: 4

Pace Project Number: 6039719
 Client Project ID: BP 11117

Pace Sample No: 603353368 Date Collected: 03/30/00 Matrix: Water
 Client Sample ID: EX-1 AFT Date Received: 03/31/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015, Water | | Method: EPA 8015/8020 Modif | | Prep Method: EPA 8015/8020 Modif | |
|----------------------------|-------|-----------------------------|------|----------------------------------|--------------|
| Gasoline | 57000 | ug/l | 7500 | 04/03/00 | VN |
| Benzene | 4500 | ug/l | 75 | 04/03/00 | VN 71-43-2 |
| Toluene | 8000 | ug/l | 75 | 04/03/00 | VN 108-88-3 |
| Ethylbenzene | 960 | ug/l | 75 | 04/03/00 | VN 100-41-4 |
| Methyl-tert-butyl Ether | 6700 | ug/l | 75 | 04/03/00 | VN 1634-04-4 |
| Xylene (Total) | 10000 | ug/l | 75 | 04/03/00 | VN 1330-20-7 |
| a,a,a-Trifluorotoluene (S) | 91 | µg/l | | 04/03/00 | VN 2164-17-2 |

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DATE: 04/20/00
PAGE: 5

Pace Project Number: 6039719
Client Project ID: BP 11117

Pace Sample No: 603353376 Date Collected: 03/30/00 Matrix: Water
Client Sample ID: MW-2 AFT Date Received: 03/31/00

Parameters Results Units PRL Analyzed Analyst CAS# Footnotes

Long Beach Laboratory

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|----------------------------|---------|-------|------|----------|---------|-----------|----------------------------------|
| GAS BTEX by 8015, Water | | | | | | | |
| | | | | | | | Method: EPA 8015/8020 Modif |
| | | | | | | | Prep Method: EPA 8015/8020 Modif |
| Gasoline | 110000 | ug/l | 7500 | 04/03/00 | VN | | |
| Benzene | 12000 | ug/l | 75 | 04/03/00 | VN | 71-43-2 | |
| Toluene | 24000 | ug/l | 75 | 04/03/00 | VN | 108-88-3 | |
| Ethylbenzene | 2600 | ug/l | 75 | 04/03/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 20000 | ug/l | 75 | 04/03/00 | VN | 1634-04-4 | |
| Xylene (Total) | 15000 | ug/l | 75 | 04/03/00 | VN | 1330-20-7 | |
| a.a.a-Trifluorotoluene (S) | 94 | % | | 04/03/00 | VN | 2164-17-2 | |

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DATE: 04/20/00
 PAGE: 6

Pace Project Number: 6039719
 Client Project ID: BP 11117

Pace Sample No: 603353384 Date Collected: 03/30/00 Matrix: Water
 Client Sample ID: EX-2 AFT Date Received: 03/31/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015, Water | | Method: EPA 8015/8020 Modif | | | Prep Method: EPA 8015/8020 Modif | | |
|------------------------------|-----|-----------------------------|-----|----------|----------------------------------|-----------|-----|
| Gasoline | 300 | ug/l | 50 | 04/03/00 | VN | | 1,2 |
| Benzene | ND | ug/l | 0.5 | 04/03/00 | VN | 71-43-2 | |
| Toluene | ND | ug/l | 0.5 | 04/03/00 | VN | 108-88-3 | |
| Ethylbenzene | ND | ug/l | 0.5 | 04/03/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 710 | ug/l | 38 | 04/03/00 | VN | 1634-04-4 | |
| Xylene (Total) | ND | ug/l | 0.5 | 04/03/00 | VN | 1330-20-7 | |
| a, a, a-Trifluorotoluene (S) | 93 | % | | 04/03/00 | VN | 2164-17-2 | |

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DATE: 04/20/00
PAGE: 7

Pace Project Number: 6039719
Client Project ID: BP 11117

PARAMETER FOOTNOTES

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
(S) Surrogate
[1] Concentration of MTBE in the calculation of TPH-G is an estimate only.
[2] Sample does not fit gasoline profile.

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DATE: 04/20/00
PAGE: 9

Pace Project Number: 6039719
Client Project ID: BP 11117

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
RPD Relative Percent Difference
(S) Surrogate

REPORT OF LABORATORY ANALYSIS

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493777

Page: 1 of 1

Section A Required Client Information:
 Company: **CAMBRIA ENV. FLA & ANALYTICAL**
 Address: **1144 65th ST. EMERYVILLE, CA 94608**
 Phone: **(510) 420-0700** Fax: **(510) 420-0701**

Section B Required Client Information:
 Report To: **SCOTT HOOTON - BP OIL**
 Invoice To: **SCOTT HOOTON - BP OIL**
 P.O.: **J197381**
 Project Name: **BP 1117**
 Project Number: **852 - 1546**

Client Information (Check quote/contract):
 Requested Due Date: **STANDARD**
 * Under 14 day turnaround subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
 Turn Around Time (TAT) in calendar days.

Section C To Be Completed by Pace Analytical and Client
 Quote Reference: **16225 A**
 Project Manager:
 Project #: **6039719**
 Profile #:
 Requested Analysis:

| # | SAMPLE ID | MATRIX CODE | DATE COLLECTED | TIME COLLECTED | # Containers | Preservatives | | | | | Remarks / Lab | |
|----|-----------|-------------|----------------|----------------|--------------|---------------|--------------------------------|------------------|-----|------|---------------|---|
| | | | | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | | Na ₂ S ₂ O ₃ |
| 1 | EX-2 BEF | WT | 3/30/00 | 0735 | 4 | | | | ✓ | ✓ | ✓ | |
| 2 | EX-1 BEF | WT | 3/30/00 | 0830 | 4 | | | | ✓ | ✓ | ✓ | |
| 3 | MW-2 BEF | WT | 3/30/00 | 1015 | 4 | | | | ✓ | ✓ | ✓ | |
| 4 | EX-1 AFT | WT | 3/30/00 | 1300 | 4 | | | | ✓ | ✓ | ✓ | |
| 5 | MW-2 AFT | WT | 3/30/00 | 1345 | 4 | | | | ✓ | ✓ | ✓ | |
| 6 | EX-2 AFT | WT | 3/30/00 | 1440 | 4 | | | | ✓ | ✓ | ✓ | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |

1215 EPA 8016
 BTEX EPA 8020
 1215 EPA 8020

| Sample Condition | Sample Notes | Item No. | Relinquished By / Company | Date | Time | Accepted By / Company | Date | Tr |
|------------------|--------------|----------|---------------------------|---------|------|-----------------------|------|----|
| Temp in °C: | | | Clifford Perini / Cambria | 3/30/00 | 1515 | Newport | 3/31 | 10 |
| Received on ICE: | 0 / N | | | | | | | |
| Sealed Cooler: | 0 / N | | | | | | | |
| Samples Intact: | 0 / N | | | | | | | |

Additional Comments:

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **Clifford Perini**
 SIGNATURE of SAMPLER: *Clifford Perini*
 DATE Signed: (MM/DD/YY) **3/30/00**

SEE REVERSE SIDE FOR INSTRUCTIONS



Pace Analytical Services, Inc.
3970 Gilman Street
Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

April 18, 2000

Mr. KHALED RAHMAN
CAMBRIA ENVIRONMENTAL
1144 65TH STREET
SUITE B
OAKLAND, CA 94608

RE: Pace Project Number: 6040010
Client Project ID: bp 11117

Dear Mr. RAHMAN:

Enclosed are the results of analyses for sample(s) received by the laboratory on April 7, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lily Bayati
Project Manager

Enclosures

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 Fax: 562.597.0786

DATE: 04/18/00

PAGE: 1

CAMBRIA ENVIRONMENTAL
 1144 65TH STREET
 SUITE B
 OAKLAND, CA 94608

Pace Project Number: 6040010
 Client Project ID: bp 11117

Attn: Mr. KHALED RAHMAN
 Phone:

Solid results are reported on a wet weight basis

Pace Sample No: 603376716 Date Collected: 04/06/00 Matrix: Water
 Client Sample ID: EX1-A Date Received: 04/07/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015, Water | | Method: EPA 8015/8020 Modif | | | Prep Method: EPA 8015/8020 Modif | | |
|----------------------------|-------|-----------------------------|------|----------|----------------------------------|-----------|--|
| Gasoline | 36000 | ug/l | 7500 | 04/14/00 | VN | | |
| Benzene | 3700 | ug/l | 75 | 04/14/00 | VN | 71-43-2 | |
| Toluene | 5700 | ug/l | 75 | 04/14/00 | VN | 108-88-3 | |
| Ethylbenzene | 530 | ug/l | 75 | 04/14/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 4300 | ug/l | 75 | 04/14/00 | VN | 1634-04-4 | |
| Xylene (Total) | 5800 | ug/l | 75 | 04/14/00 | VN | 1330-20-7 | |
| a,a,a-Trifluorotoluene (S) | 92 | % | | 04/14/00 | VN | 2164-17-2 | |

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DATE: 04/18/00
 PAGE: 2

Pace Project Number: 6040010
 Client Project ID: bp 11117

Pace Sample No: 603376724 Date Collected: 04/06/00 Matrix: Water
 Client Sample ID: MW2-A Date Received: 04/07/00

Parameters Results Units PRL Analyzed Analyst CAS# Footnotes

Long Beach Laboratory

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|----------------------------|---------|-------|------|----------|---------|-----------|-----------|
| GAS BTEX by 8015, Water | | | | | | | |
| Gasoline | 140000 | ug/l | 7500 | 04/14/00 | VN | | |
| Benzene | 14000 | ug/l | 75 | 04/14/00 | VN | 71-43-2 | |
| Toluene | 27000 | ug/l | 75 | 04/14/00 | VN | 108-88-3 | |
| Ethylbenzene | 2900 | ug/l | 75 | 04/14/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 21000 | ug/l | 75 | 04/14/00 | VN | 1634-04-4 | |
| Xylene (Total) | 19000 | ug/l | 75 | 04/14/00 | VN | 1330-20-7 | |
| a,a,a-Trifluorotoluene (S) | 88 | % | | 04/14/00 | VN | 2164-17-2 | |

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DATE: 04/18/00
 PAGE: 3

Pace Project Number: 6040010
 Client Project ID: bp 11117

Pace Sample No: 603376732
 Client Sample ID: MW2-B

Date Collected: 04/06/00
 Date Received: 04/07/00

Matrix: Water

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| Parameters | Method: EPA 8015/8020 Modif | | | Prep Method: EPA 8015/8020 Modif | | |
|----------------------------|-----------------------------|-------|------|----------------------------------|---------|-----------|
| | Results | Units | PRL | Analyzed | Analyst | CAS# |
| GAS BTEX by 8015, Water | | | | | | |
| Gasoline | 140000 | ug/l | 7500 | 04/14/00 | VN | |
| Benzene | 15000 | ug/l | 75 | 04/14/00 | VN | 71-43-2 |
| Toluene | 28000 | ug/l | 750 | 04/14/00 | VN | 108-88-3 |
| Ethylbenzene | 3300 | ug/l | 75 | 04/14/00 | VN | 100-41-4 |
| Methyl-tert-butyl Ether | 23000 | ug/l | 75 | 04/14/00 | VN | 1634-04-4 |
| Xylene (Total) | 19000 | ug/l | 75 | 04/14/00 | VN | 1330-20-7 |
| a,a,a-Trifluorotoluene (S) | 92 | % | | 04/14/00 | VN | 2164-17-2 |

REPORT OF LABORATORY ANALYSIS

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 Fax: 562.597.0786

DATE: 04/18/00
 PAGE: 4

Pace Project Number: 6040010
 Client Project ID: bp 11117

Pace Sample No: 603376740 Date Collected: 04/06/00 Matrix: Water
 Client Sample ID: EX1-B Date Received: 04/07/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|----------------------------|---------|-----------------------------|------|----------------------------------|---------|-----------|-----------|
| GAS BTEX by 8015, Water | | Method: EPA 8015/8020 Modif | | Prep Method: EPA 8015/8020 Modif | | | |
| Gasoline | 44000 | ug/l | 7500 | 04/14/00 | VN | | |
| Benzene | 3400 | ug/l | 75 | 04/14/00 | VN | 71-43-2 | |
| Toluene | 5600 | ug/l | 75 | 04/14/00 | VN | 108-88-3 | |
| Ethylbenzene | 610 | ug/l | 75 | 04/14/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 8200 | ug/l | 75 | 04/14/00 | VN | 1634-04-4 | |
| Xylene (Total) | 7200 | ug/l | 75 | 04/14/00 | VN | 1330-20-7 | |
| a,a,a-Trifluorotoluene (S) | 91 | % | | 04/14/00 | VN | 2164-17-2 | |

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DATE: 04/18/00
 PAGE: 5

Pace Project Number: 6040010
 Client Project ID: bp 11117

Pace Sample No: 603376757 Date Collected: 04/06/00 Matrix: Water
 Client Sample ID: EX2-A Date Received: 04/07/00

Parameters Results Units PRL Analyzed Analyst CAS# Footnotes

Long Beach Laboratory

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|--|---------|-------|-----|----------|---------|-----------|-----------|
| GAS BTEX by 8015, Water Method: EPA 8015/8020 Modif Prep Method: EPA 8015/8020 Modif | | | | | | | |
| Gasoline | 110 | ug/l | 50 | 04/14/00 | VN | | 1,2 |
| Benzene | ND | ug/l | 0.5 | 04/14/00 | VN | 71-43-2 | |
| Toluene | ND | ug/l | 0.5 | 04/14/00 | VN | 108-88-3 | |
| Ethylbenzene | ND | ug/l | 0.5 | 04/14/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 420 | ug/l | 75 | 04/14/00 | VN | 1634-04-4 | |
| Xylene (Total) | ND | ug/l | 0.5 | 04/14/00 | VN | 1330-20-7 | |
| a,a,a-Trifluorotoluene (S) | 94 | % | | 04/14/00 | VN | 2164-17-2 | |

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DATE: 04/18/00
 PAGE: 6

Pace Project Number: 6040010
 Client Project ID: bp 11117

Pace Sample No: 603376765 Date Collected: 04/06/00 Matrix: Water
 Client Sample ID: EX2-B Date Received: 04/07/00

Parameters Results Units PRL Analyzed Analyst CAS# Footnotes

Long Beach Laboratory

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|----------------------------|---------|-------|-----|----------|---------|-----------|-----------|
| GAS BTEX by 8015, Water | | | | | | | |
| Gasoline | 230 | ug/l | 50 | 04/14/00 | VN | | 1,2 |
| Benzene | ND | ug/l | 0.5 | 04/14/00 | VN | 71-43-2 | |
| Toluene | ND | ug/l | 0.5 | 04/14/00 | VN | 108-88-3 | |
| Ethylbenzene | ND | ug/l | 0.5 | 04/14/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 640 | ug/l | 75 | 04/14/00 | VN | 1634-04-4 | |
| Xylene (Total) | ND | ug/l | 0.5 | 04/14/00 | VN | 1330-20-7 | |
| a,a,a-Trifluorotoluene (S) | 101 | % | | 04/14/00 | VN | 2164-17-2 | |

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441740

Page: 1 of 1

Required Client Information: **Section A** Required Client Information: **Section B**

| | |
|---|------------------------------------|
| Company: CAMBRIA | Report To: Khaled Rahman |
| Address: 1144 65th ST, SUITE C OAKLAND, CA 94608 | Invoice To: BP - Renton, WA |
| | P.O. J197381 |
| | Project Name: BP Oakland |
| Phone: 510.420.3320 Fax: 510.420.9170 | Project Number: BP # 1117 |

Client Information (Check quote/contract):
 Requested Due Date: TAT: **14 day**
 * Under 14 day turnaround subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
 Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference: **16398 A**

Project Manager:

Project #: **6040684**

Profile #:

Requested Analysis:

| ITEM # | Section D Required Client Information: | | Valid Matrix Codes MATRIX CODE | DATE COLLECTED mm/dd/yy | TIME COLLECTED mm:hh a/p | # Containers | Preservatives | | | | | Remarks / Lab ID | | | |
|--------|--|-----|-----------------------------------|----------------------------|-----------------------------|--------------|---------------|--------------------------------|------------------|-----|------|------------------|---|---|--|
| | SAMPLE ID One character per box. (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE | | | | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | | Na ₂ S ₂ O ₃ | | |
| 1 | MW-2 | PRE | WT | 4/27/00 | 0825 | 3 | | | X | | | X | X | X | |
| 2 | EX-2 | PRE | ↓ | ↓ | 1145 | 3 | | | X | | | X | X | X | |
| 3 | EX-1 | PRE | ↓ | ↓ | 0740 | 3 | | | X | | | X | X | X | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |

| Sample Condition | Sample Notes | Item No. | Relinquished By / Company | Date | Time | Accepted By / Company | Date | Time |
|------------------|--------------|----------|---------------------------|------|------|-----------------------|--------|------|
| Temp in °C: | | | Brian Busch / CAMBRIA | 4/28 | 1500 | <i>[Signature]</i> | 5/1/00 | 9:00 |
| Received on ICE: | Y / N | | | | | | | |
| Sealed Cooler: | Y / N | | | | | | | |
| Samples Intact: | Y / N | | | | | | | |

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **BRIAN BUSCH**

SIGNATURE of SAMPLER: *[Signature]* DATE Signed (MM/DD/YY): **4/28/00**



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DATE: 05/11/00

PAGE: 6

Pace Project Number: 6040684

Client Project ID: BP OAKLAND

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
RPD Relative Percent Difference
(S) Surrogate

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QUALITY CONTROL DATA

DATE: 05/11/00
 PAGE: 5

CAMBRIA ENVIRONMENTAL
 1144 65TH STREET
 OAKLAND, CA 12345

Pace Project Number: 6040684
 Client Project ID: BP OAKLAND

Attn: Mr. KHALED RAHMAN
 Phone: 510-4200700

QC Batch ID: 82524 QC Batch Method: EPA 8015 Mod/8020
 Analysis Method: EPA 8015 Mod/8020 Analysis Description: GAS BTEX by 8015, Water
 Associated Pace Samples: 603441973 603441981 603441999

METHOD BLANK: 603445362
 Associated Pace Samples:

| Parameter | Units | 603441973 | 603441981 | 603441999 | Footnotes |
|----------------------------|-------|-----------|---------------------------|-----------|-----------|
| | | | Method Blank Result | PRL | |
| Gasoline | ug/l | | ND | 12 | |
| Benzene | ug/l | | ND | 0.05 | |
| Toluene | ug/l | | ND | 0.05 | |
| Ethylbenzene | ug/l | | ND | 0.05 | |
| Methyl-tert-butyl Ether | ug/l | | ND | 0.05 | |
| Xylene (Total) | ug/l | | ND | 0.05 | |
| a,a,a-Trifluorotoluene (S) | % | | 116 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603445370 603445388

| Parameter | Units | 603441866 | 603441866 | Matrix Spike Result | Matrix Spike % Rec | Matrix Sp. Dup. Result | Spike Dup % Rec | RPD | Footnotes |
|----------------------------|-------|-----------|-----------|---------------------------|--------------------------|------------------------------|-----------------------|-----|-----------|
| | | Conc. | Conc. | Result | % Rec | Result | % Rec | | |
| Gasoline | ug/l | 0 | 40 | 37.60 | 94.0 | 38.00 | 95.0 | 1 | |
| Benzene | ug/l | 0 | 6.667 | 6.360 | 95.4 | 6.720 | 101 | 6 | |
| Toluene | ug/l | 0 | 6.667 | 6.690 | 100 | 7.000 | 105 | 4 | |
| Ethylbenzene | ug/l | 0 | 6.667 | 6.670 | 100 | 6.880 | 103 | 3 | |
| Methyl-tert-butyl Ether | ug/l | 0 | 6.667 | 7.699 | 116 | 7.070 | 106 | 8 | |
| a,a,a-Trifluorotoluene (S) | | | | | 106 | | 113 | | |

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DATE: 05/11/00

PAGE: 4

Pace Project Number: 6040684

Client Project ID: BP OAKLAND

PARAMETER FOOTNOTES

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
(S) Surrogate
[1] Sample does not fit gasoline profile. Sample contain mainly MTBE.
[2] Concentration of MTBE in the calculation of TPH-G is an estimate only.

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DATE: 05/11/00
 PAGE: 3

Pace Project Number: 6040684
 Client Project ID: BP OAKLAND

Pace Sample No: 603441999 Date Collected: 04/27/00 Matrix: Water
 Client Sample ID: BP OAKLAND EX-1 PRE Date Received: 05/02/00

Parameters Results Units PRL Analyzed Analyst CAS# Footnotes

Long Beach Laboratory

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|--|---------|-------|------|----------|---------|-----------|-----------|
| GAS BTEX by 8015, Water Method: EPA 8015 Mod/8020 Prep Method: EPA 8015 Mod/8020 | | | | | | | |
| Gasoline | 35000 | ug/l | 7500 | 05/01/00 | VN | | |
| Benzene | 3500 | ug/l | 75 | 05/01/00 | VN | 71-43-2 | |
| Toluene | 9900 | ug/l | 75 | 05/01/00 | VN | 108-88-3 | |
| Ethylbenzene | 600 | ug/l | 75 | 05/01/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 3500 | ug/l | 75 | 05/01/00 | VN | 1634-04-4 | |
| Xylene (Total) | 7600 | ug/l | 75 | 05/01/00 | VN | 1330-20-7 | |
| a,a,a-Trifluorotoluene (S) | 122 | % | | 05/01/00 | VN | 2164-17-2 | |

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DATE: 05/11/00
 PAGE: 2

Pace Project Number: 6040684
 Client Project ID: BP OAKLAND

Pace Sample No: 603441981 Date Collected: 04/27/00 Matrix: Water
 Client Sample ID: BP OAKLAND EX-2 PRE Date Received: 05/02/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015, Water | | Method: EPA 8015 Mod/8020 | | | Prep Method: EPA 8015 Mod/8020 | | |
|----------------------------|------|---------------------------|-----|----------|--------------------------------|-----------|-----|
| Gasoline | 340 | ug/l | 50 | 05/01/00 | VN | | 1,2 |
| Benzene | 0.53 | ug/l | 0.5 | 05/01/00 | VN | 71-43-2 | |
| Toluene | ND | ug/l | 0.5 | 05/01/00 | VN | 108-88-3 | |
| Ethylbenzene | ND | ug/l | 0.5 | 05/01/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 1300 | ug/l | 75 | 05/01/00 | VN | 1634-04-4 | |
| Xylene (Total) | ND | ug/l | 0.5 | 05/01/00 | VN | 1330-20-7 | |
| a.a.a-Trifluorotoluene (S) | 113 | % | | 05/01/00 | VN | 2164-17-2 | |

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DATE: 05/11/00
 PAGE: 1

CAMBRIA ENVIRONMENTAL
 1144 65TH STREET
 OAKLAND, CA 12345

Pace Project Number: 6040684
 Client Project ID: BP OAKLAND

Attn: Mr. KHALED RAHMAN
 Phone: 510-4200700

Solid results are reported on a wet weight basis

Pace Sample No: 603441973 Date Collected: 04/27/00 Matrix: Water
 Client Sample ID: BP OKLAND MW-2 PRE Date Received: 05/02/00

| Parameters | Results | Units | PRL | Analyzed | Analyst | CAS# | Footnotes |
|------------|---------|-------|-----|----------|---------|------|-----------|
|------------|---------|-------|-----|----------|---------|------|-----------|

Long Beach Laboratory

| GAS BTEX by 8015, Water | Method: EPA 8015 Mod/8020 | | | Prep Method: EPA 8015 Mod/8020 | | | |
|----------------------------|---------------------------|------|-------|--------------------------------|----|-----------|--|
| Gasoline | 110000 | ug/l | 75000 | 05/01/00 | VN | | |
| Benzene | 14000 | ug/l | 750 | 05/01/00 | VN | 71-43-2 | |
| Toluene | 26000 | ug/l | 750 | 05/01/00 | VN | 108-88-3 | |
| Ethylbenzene | 2600 | ug/l | 750 | 05/01/00 | VN | 100-41-4 | |
| Methyl-tert-butyl Ether | 28000 | ug/l | 750 | 05/01/00 | VN | 1634-04-4 | |
| Xylene (Total) | 17000 | ug/l | 750 | 05/01/00 | VN | 1330-20-7 | |
| a,a,a-Trifluorotoluene (S) | 106 | % | | 05/01/00 | VN | 2164-17-2 | |

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May 11, 2000

Mr. KHALED RAHMAN
CAMBRIA ENVIRONMENTAL
1144 65TH STREET
OAKLAND, CA 12345

RE: Pace Project Number: 6040684
Client Project ID: BP OAKLAND

Dear Mr. RAHMAN:

Enclosed are the results of analyses for sample(s) received by the laboratory on May 2, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

FOR
Lily Bayati
Project Manager

Enclosures

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493778

To Be Completed by Pace Analytical and Client Section C

Required Client Information: Section A
 Company: CAMBRIA EWV TECH
 Address: 1144 65th St
 Emeryville, CA 94608
 Phone: 510-420-0700 Fax: 510-420-9170

Required Client Information: Section B
 Report To: Khaleed Rahman
 Invoice To: Scott Houston BPOIL
 P.O. #: 519738-1
 Project Name: BP 1117
 Project Number: 852-1546

Client Information (Check quote/contract):
 Requested Due Date: TAT
 TAT: Standard
 * Under 14 day turnaround subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
 Turn Around Time (TAT) in calendar days.

Quote Reference: 16265A
 Project Manager:
 Project #: 6040010
 Profile #:

| ITEM # | Section D Required Client Information: SAMPLE ID | | | | | | | MATRIX CODE | DATE COLLECTED mm / dd / yy | TIME COLLECTED mm : hh a/p | # Containers | Preservatives | | | | | | REMARKS / Lab ID | | | | | | | | | | | | | | | | | | |
|---------------------------|--|---|---|---|--|--|----------------------------------|-------------|--------------------------------|-------------------------------|--------------|---------------|------|----|-----|----|--------|------------------|-------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | One character per box. (A-Z, 0-9 / -) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample IDs MUST BE UNIQUE | | | | | | | Valid Matrix Codes < MATRIX CODE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | WATER | WT | SOIL | SL | OIL | OL | WIPE | WP | AIR | AR | TISSUE | TS | OTHER | OT | | | | | | | | | | | | | | | | |
| 1 | EX | 1 | - | A | | | | WT | 4/6/00 | 0730 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | MW | 2 | - | A | | | | | | 0835 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | MW | 2 | - | B | | | | | | 1130 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | EX | 1 | - | B | | | | | | 1240 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | EX | 2 | - | A | | | | ↓ | | 1145 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | EX | 2 | - | B | | | | WT | ↓ | 1455 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TPH EPA 8015
 BTEX EPA 8020
 MTBE EPA 8020

| Sample Condition | Sample Notes | Item No. | Relinquished By / Company | Date | Time | Accepted By / Company | Date | Time |
|------------------|--------------|----------|---------------------------|--------|------|-----------------------|--------|------|
| Temp in °C: | | | Clifford Perini / Cambria | 4/6/00 | | Need | 4/7/00 | 9:00 |
| Received on ICE: | Ⓟ / N | | | | | | | |
| Sealed Cooler: | Ⓟ / N | | | | | | | |
| Samples Intact: | Ⓟ / N | | | | | | | |

Additional Comments:

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Clifford Perini
 SIGNATURE of SAMPLER: Clifford Perini
 DATE Signed: (MM / DD / YY) 4/6/00



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Phone: 562.498.9515
Fax: 562.597.0786

DATE: 04/18/00
PAGE: 9

Pace Project Number: 6040010
Client Project ID: bp 11117

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

| | |
|-----|-----------------------------|
| ND | Not Detected |
| NC | Not Calculable |
| PRL | Pace Reporting Limit |
| RPD | Relative Percent Difference |
| (S) | Surrogate |

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QUALITY CONTROL DATA

DATE: 04/18/00
 PAGE: 8

CAMBRIA ENVIRONMENTAL
 1144 65TH STREET
 SUITE B
 OAKLAND, CA 94608

Pace Project Number: 6040010
 Client Project ID: bp 11117

Attn: Mr. KHALED RAHMAN
 Phone:

QC Batch ID: 81415
 Analysis Method: EPA 8015/8020 Modif
 Associated Pace Samples: 603376716 603376724 603376732 603376740 603376757

QC Batch Method: EPA 8015/8020 Modif
 Analysis Description: GAS BTEX by 8015, Water

METHOD BLANK: 603394396
 Associated Pace Samples:

603376716 603376724 603376732 603376740 603376757 603376765

| Parameter | Units | Method | PRL | Footnotes |
|----------------------------|-------|--------------|------|-----------|
| | | Blank Result | | |
| Gasoline | ug/l | ND | 12 | |
| Benzene | ug/l | ND | 0.05 | |
| Toluene | ug/l | ND | 0.05 | |
| Ethylbenzene | ug/l | ND | 0.05 | |
| Methyl-tert-butyl Ether | ug/l | ND | 0.05 | |
| Xylene (Total) | ug/l | ND | 0.05 | |
| a.a.a-Trifluorotoluene (S) | % | 99 | | |

| Parameter | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 603394404 603394412 | | Matrix | Matrix | Spike | RPD | Footnotes |
|----------------------------|-------|--|-------------|--------------|-----------------|-----------|------|-----------|
| | | 603376682 | Spike Conc. | Spike Result | Sp. Dup. Result | Dup % Rec | | |
| Gasoline | ug/l | 0 | 40 | 40.20 | 100 | 41.40 | 104 | 3 |
| Benzene | ug/l | 0 | 6.667 | 6.000 | 90.0 | 5.920 | 88.8 | 1 |
| Toluene | ug/l | 0 | 6.667 | 6.380 | 95.7 | 6.070 | 91.1 | 5 |
| Ethylbenzene | ug/l | 0 | 6.667 | 6.090 | 91.4 | 6.240 | 93.6 | 2 |
| Methyl-tert-butyl Ether | ug/l | 0.6494 | 6.667 | 6.530 | 88.2 | 6.500 | 87.8 | 0 |
| a.a.a-Trifluorotoluene (S) | | | | | 88 | | 94 | |

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Long Beach, CA 90815
Phone: 562.498.9515
Fax: 562.597.0786

DATE: 04/18/00
PAGE: 7

Pace Project Number: 6040010
Client Project ID: bp 11117

PARAMETER FOOTNOTES

ND Not Detected
NC Not Calculable
PRL Pace Reporting Limit
(S) Surrogate
[1] Sample does not fit gasoline profile. Sample contain mainly MTBE.
[2] Concentration of MTBE in the calculation of TPH-G is an estimate only.

REPORT OF LABORATORY ANALYSIS

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C A M B R I A



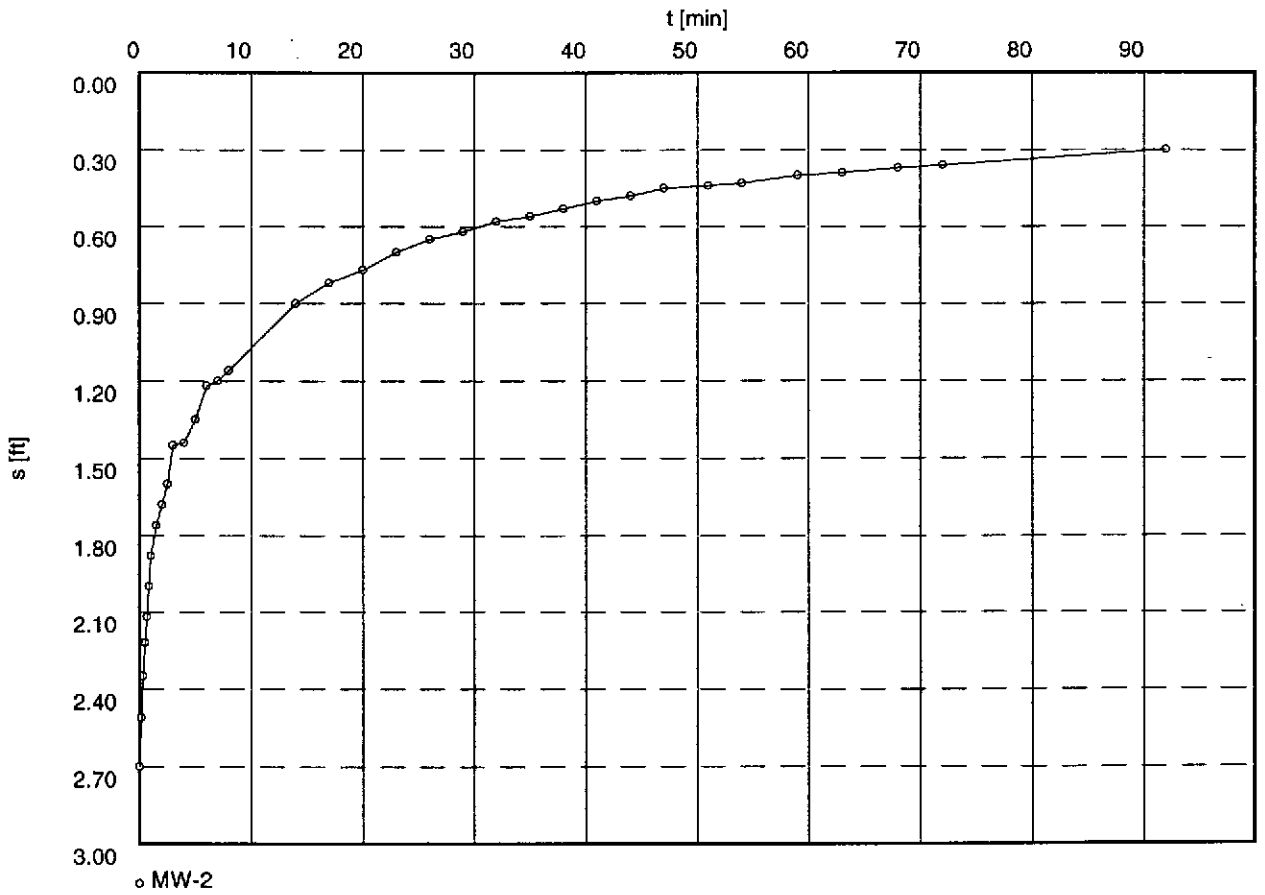
Appendix F

Recovery Test Data

Pumping Test No.

Test conducted on: April 27, 2000

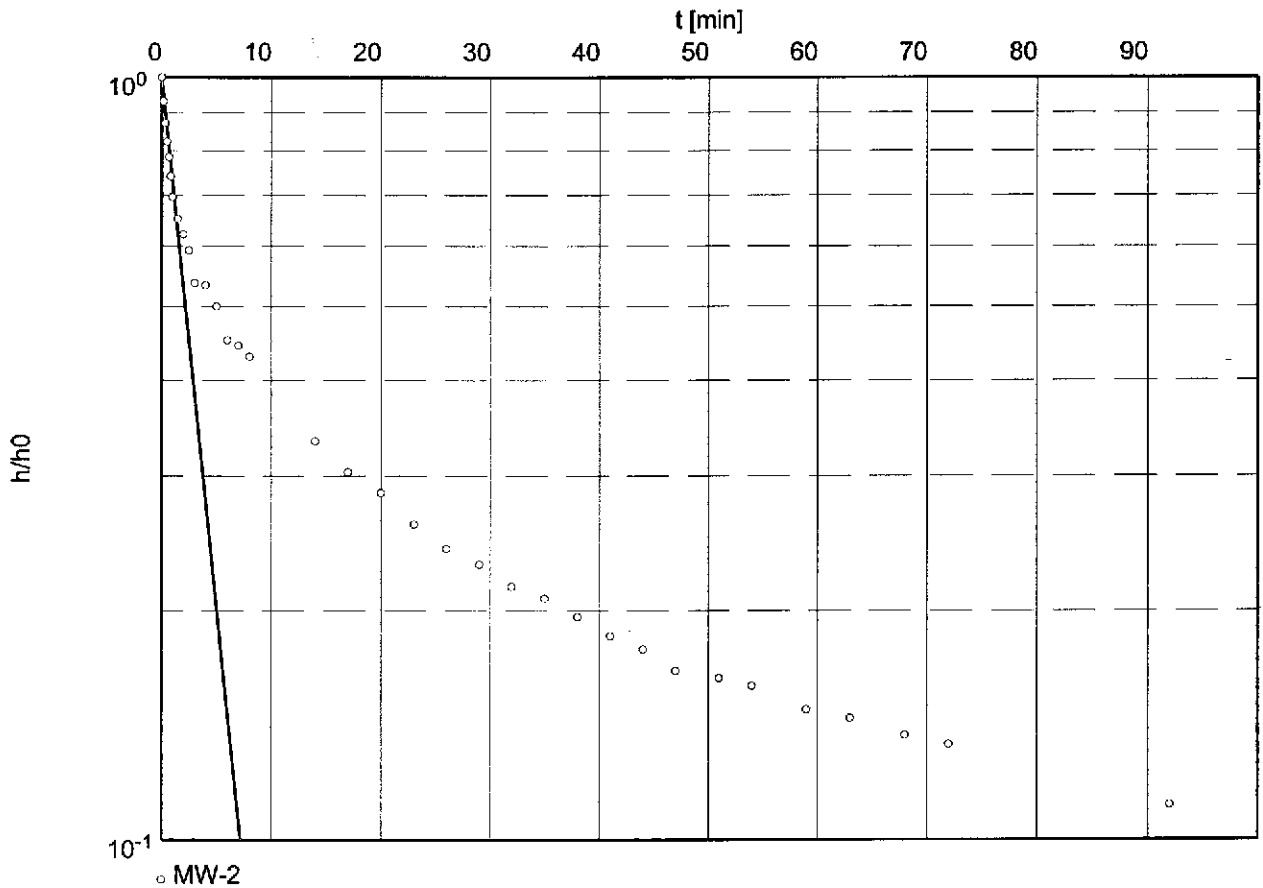
MW-2



Slug Test No.

Test conducted on: April 27, 2000

MW-2



Hydraulic conductivity [ft/min]: 8.33×10^{-4}

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Oakland, California

ph.(510)420-0070

slug/bail test analysis

HVORSLEV's method

Date: 03.05.2000 Page 1

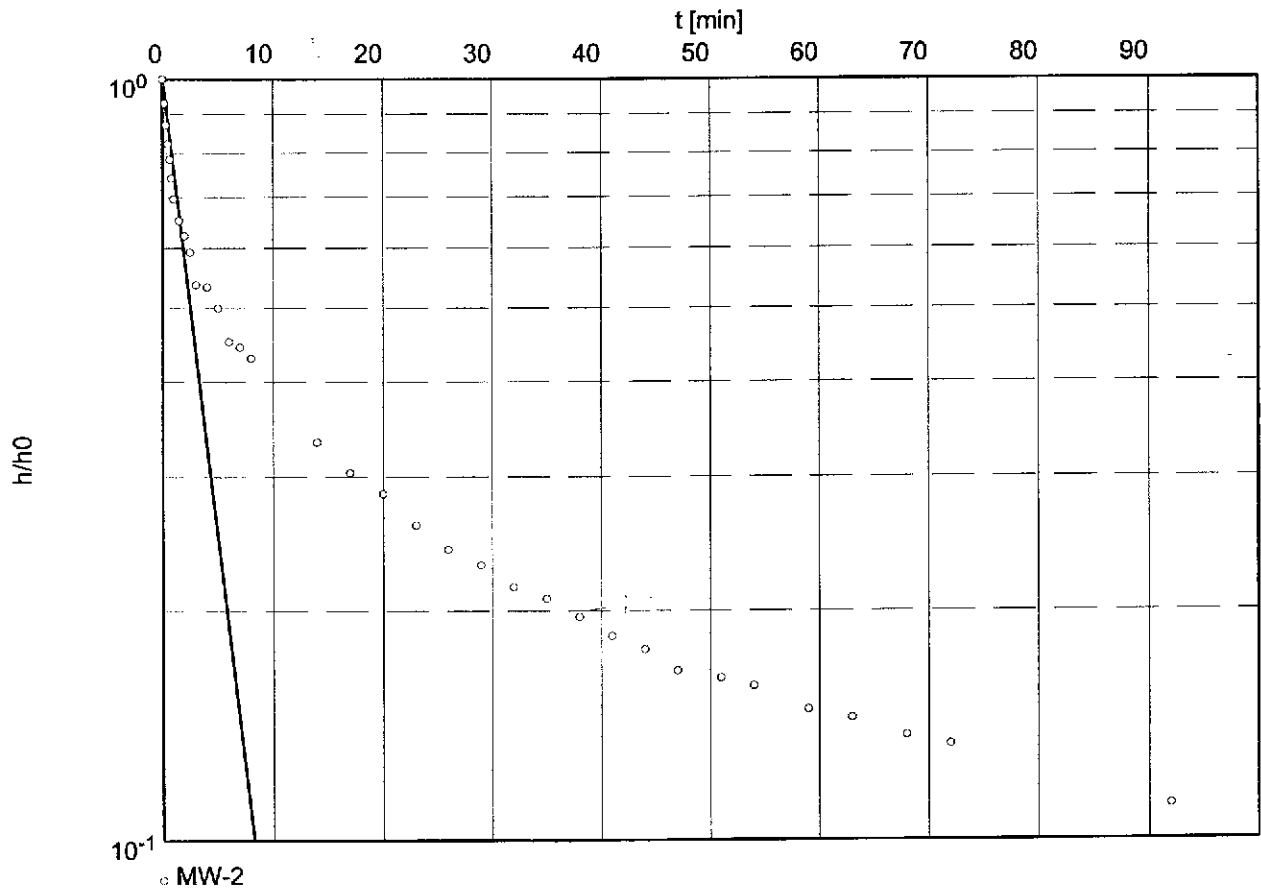
Project: BP-11117

Evaluated by:

Slug Test No.

Test conducted on: April 27, 2000

MW-2



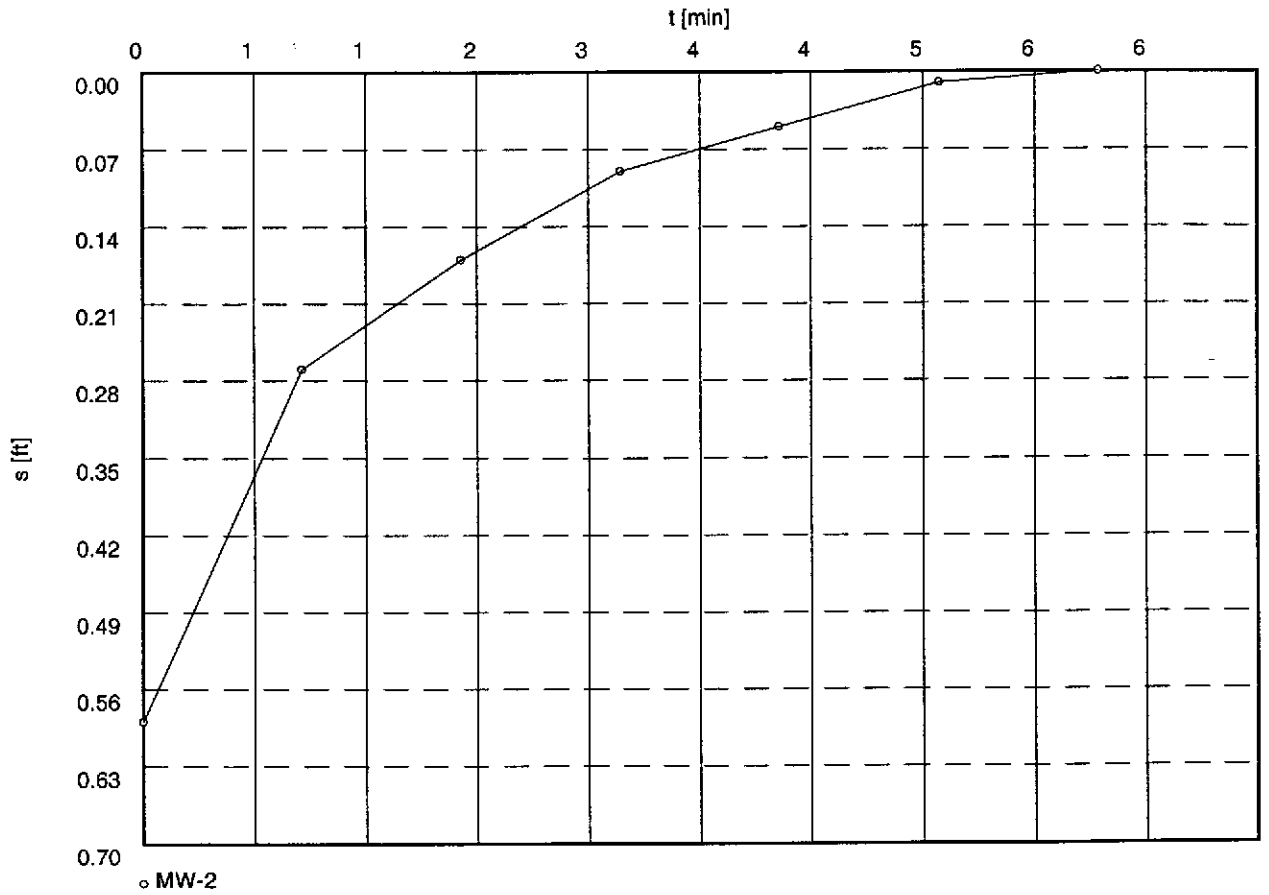
Hydraulic conductivity [ft/min]: 1.85×10^{-4}

Project:

Evaluated by:

Pumping Test No.

Test conducted on:



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slug/bail test analysis
BOUWER-RICE's method

Date: 02.05.2000 Page 1

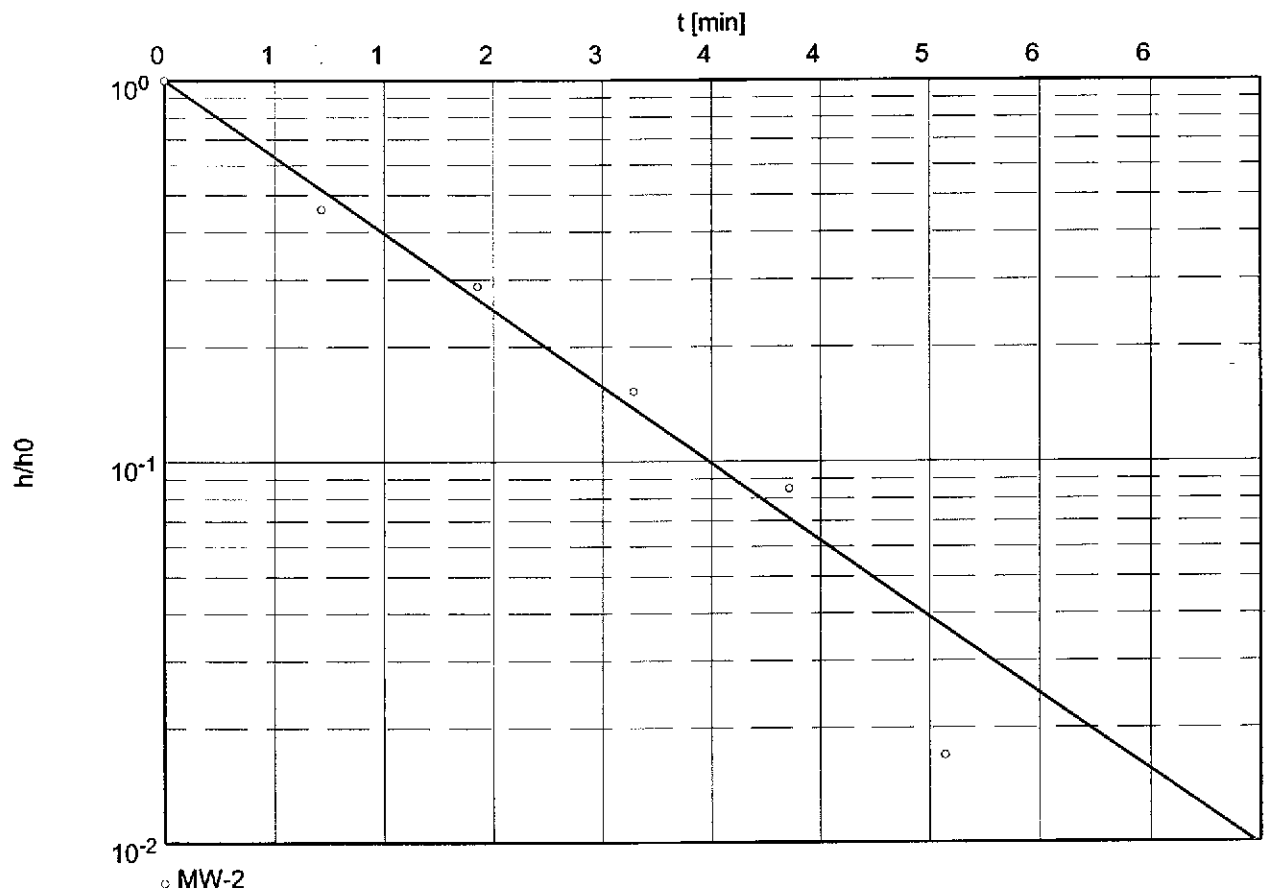
Project: BP-11117

Evaluated by:

Slug Test No.

Test conducted on: April 28, 2000

MW-2



Hydraulic conductivity [ft/min]: 3.39×10^{-4}

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HVORSLEV's method

Date: 02.05.2000 Page 1

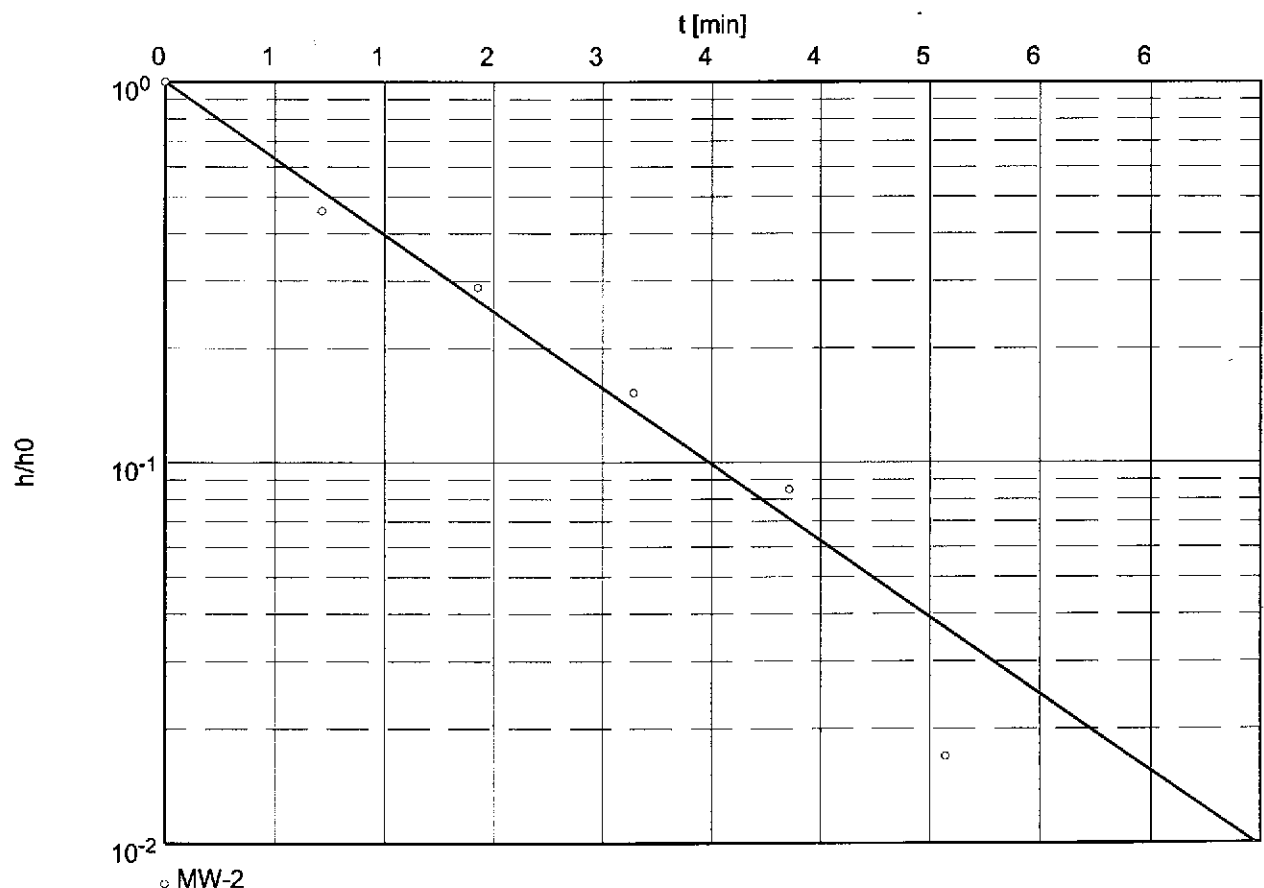
Project: BP-11117

Evaluated by:

Slug Test No.

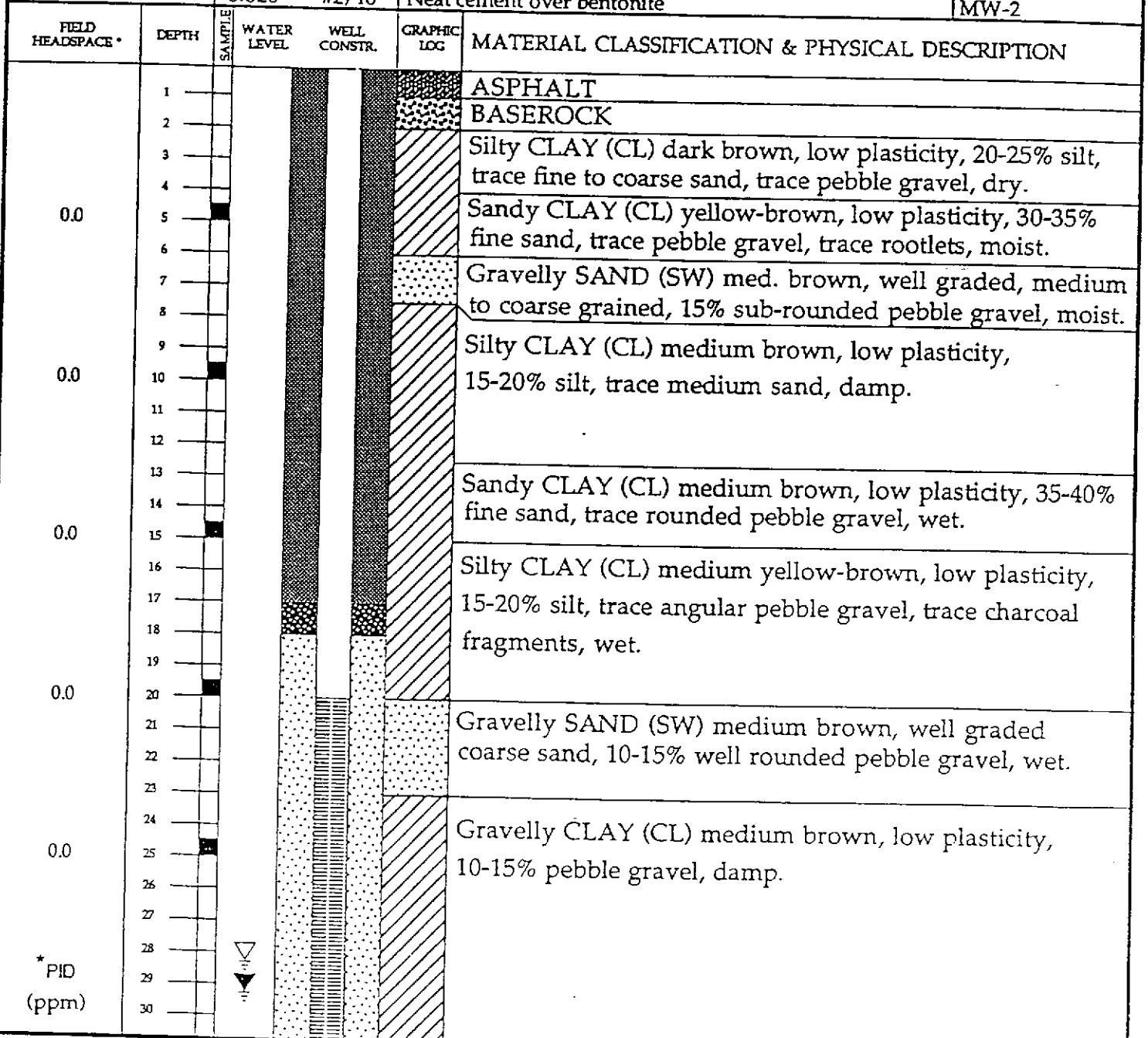
Test conducted on: April 28, 2000

MW-2



Hydraulic conductivity [ft/min]: 4.36×10^{-4}

| | | | | | |
|--|---------------------|--|--|---------------------------|-----------------------------|
| SITE/LOCATION 7210 Bancroft Avenue, Oakland, CA | | BEGUN 12/27/91 | BORING DIAMETER 8 Inches | GLE/BEARING 90 Degrees | BORING NO MW-2 |
| DRILLING CONTRACTOR Bayland Drilling | | COMPLETED 12/27/91 | FIRST ENCOUNTERED WATER DEPTH 30 Feet | | |
| OPERATOR Tom Schmidt | | LOGGED BY T. Lane | STATIC WATER DEPTH/DATE 30 Feet | | |
| DRILL MAKE & MODEL CME 75 | | SAMPLING METHOD California modified split spoon | | | BOTTOM OF BORING 40 Feet |
| WELL MATERIAL 2" SCH 40 PVC | SLOT SIZE 0.020" | FILTER PACK #2/16 | WELL SEAL Neat cement over bentonite | | WELL NO. MW-2 |



| | | |
|--|---|------------------|
| HYDRO- ENVIRONMENTAL TECHNOLOGIES, INC. | SOIL BORING LOG MW-2 AND WELL CONSTRUCTION MW-2 | PLATE A-4 |
| | BP Oil Station No. 11117 7210 Bancroft Avenue Oakland, CA | JOB NO. 9-029 |
| DATE: | APPROVED BY: Frederick G. Moss, PE No. 35162 | |

| | | | | | |
|--|---------------------|--|--|-----------------------------|-----------------------------|
| SITE/LOCATION 7210 Bancroft Avenue, Oakland, CA | | BEGUN 12/27/91 | BORING DIAMETER 8 Inches | ANGLE/BEARING 90 Degrees | BORING NO MW-2 |
| DRILLING CONTRACTOR Bayland Drilling | | COMPLETED 12/27/91 | FIRST ENCOUNTERED WATER DEPTH 30 Feet | | |
| OPERATOR Tom Schmidt | | LOGGED BY T. Lane | STATIC WATER DEPTH/DATE 30 Feet | | |
| DRILL MAKE & MODEL CME 75 | | SAMPLING METHOD California modified split spoon | | | BOTTOM OF BORING 40 Feet |
| WELL MATERIAL 2" SCH 40 PVC | SLOT SIZE 0.020" | FILTER PACK #2/16 | WELL SEAL Neat cement over bentonite | | WELL NO. MW-2 |

| FIELD HEADSPACE * | DEPTH | SAMPLE | WATER LEVEL | WELL CONSTR. | GRAPHIC LOG | MATERIAL CLASSIFICATION & PHYSICAL DESCRIPTION |
|-------------------|-------|--------|-------------|--------------|-------------|---|
| | 31 | | | | | Gravelly CLAY (CL) medium brown, low plasticity, 20-30% sub-rounded coarse gravel, wet. |
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| | 60 | | | | | |

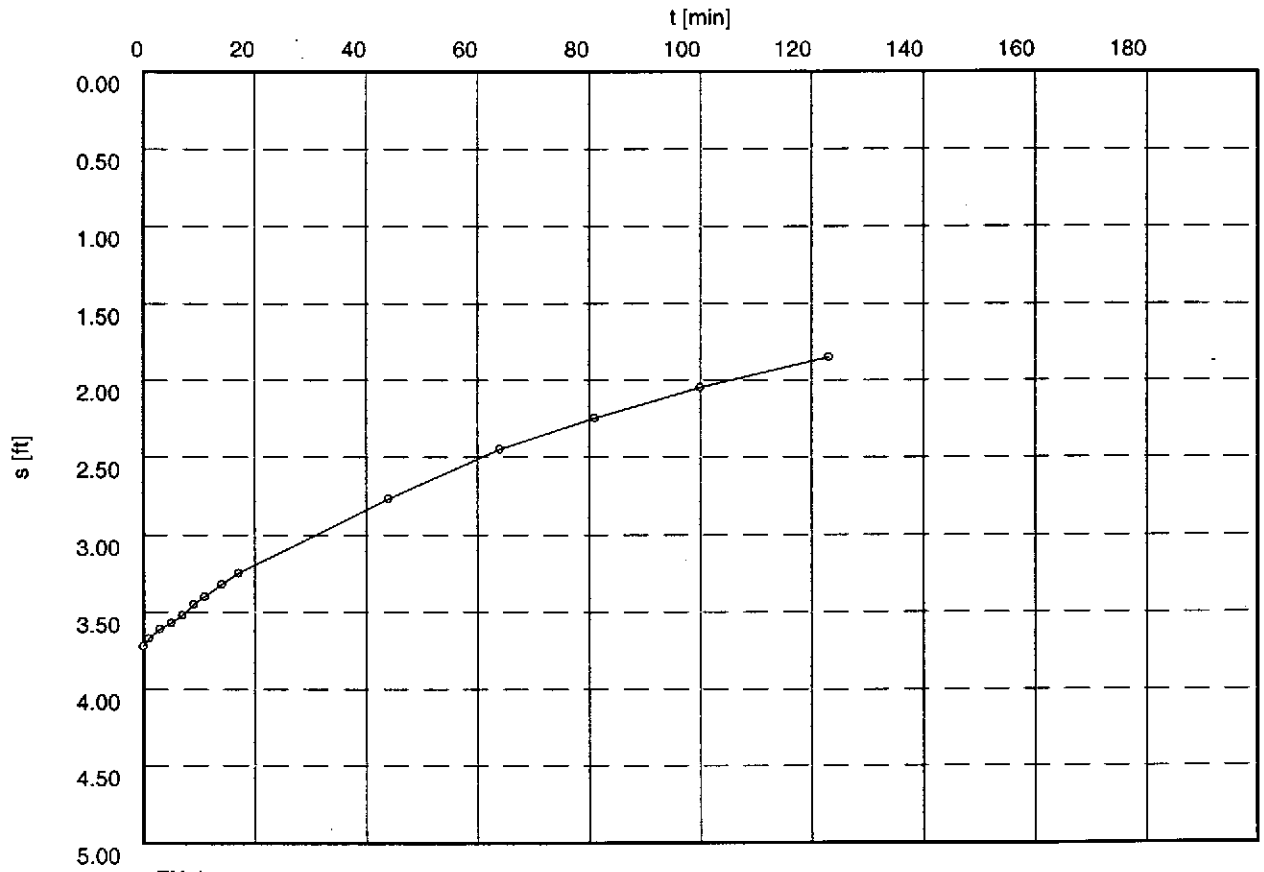
* PID
(ppm)

| | | |
|---|---|------------------|
| HYDR- ENVIRONMENTAL TECHNOLOGIES, INC. | SOIL BORING LOG MW-2 AND WELL CONSTRUCTION MW-2 | PLATE A-5 |
| | BP Oil Station No. 11117 7210 Bancroft Avenue Oakland, CA | JOB NO. 9-029 |
| DATE: | | |
| APPROVED BY: Frederick G. Moss, PE No. 35162 | | |

Pumping Test No.

Test conducted on: April 27, 2000

EX-1



o EX-1

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slug/bail test analysis
BOUWER-RICE's method

Date: 03.05.2000 Page 1

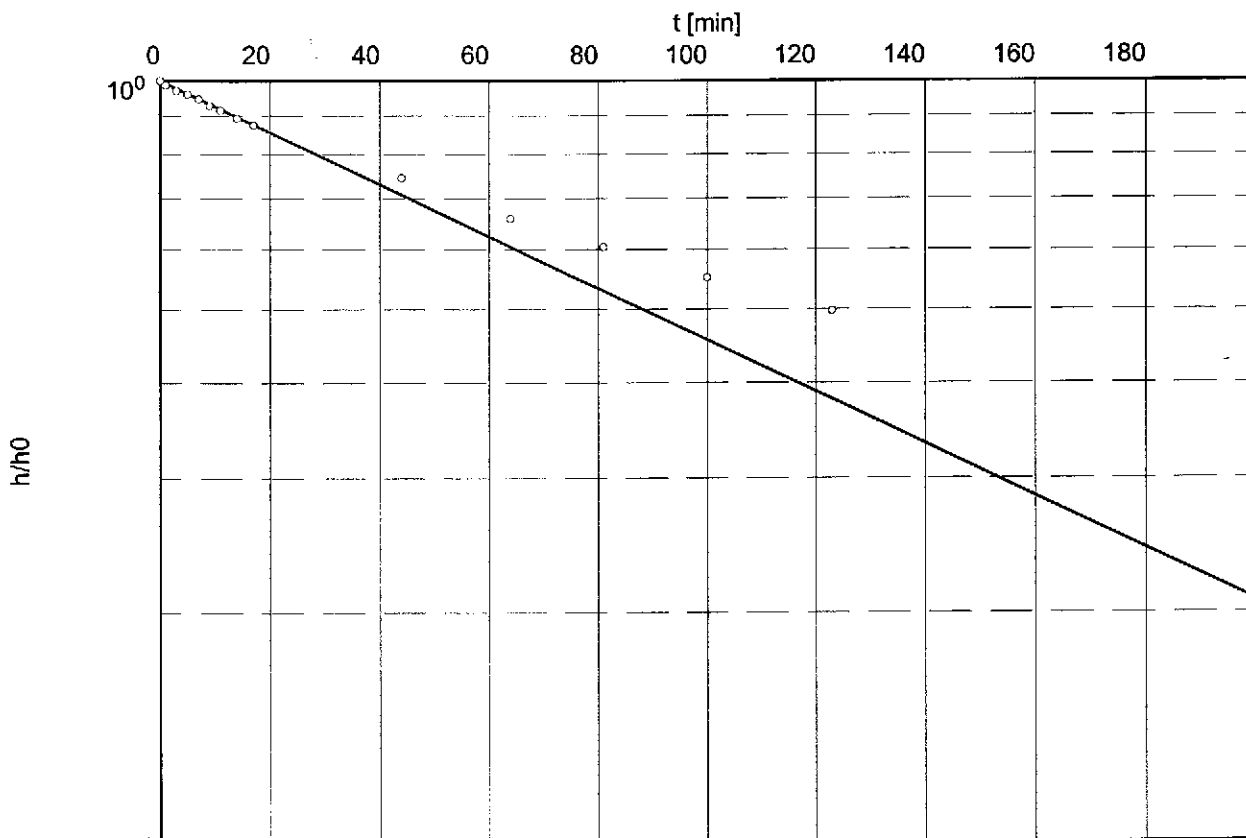
Project: BP-11117

Evaluated by:

Slug Test No.

Test conducted on: April 27, 2000

EX-1



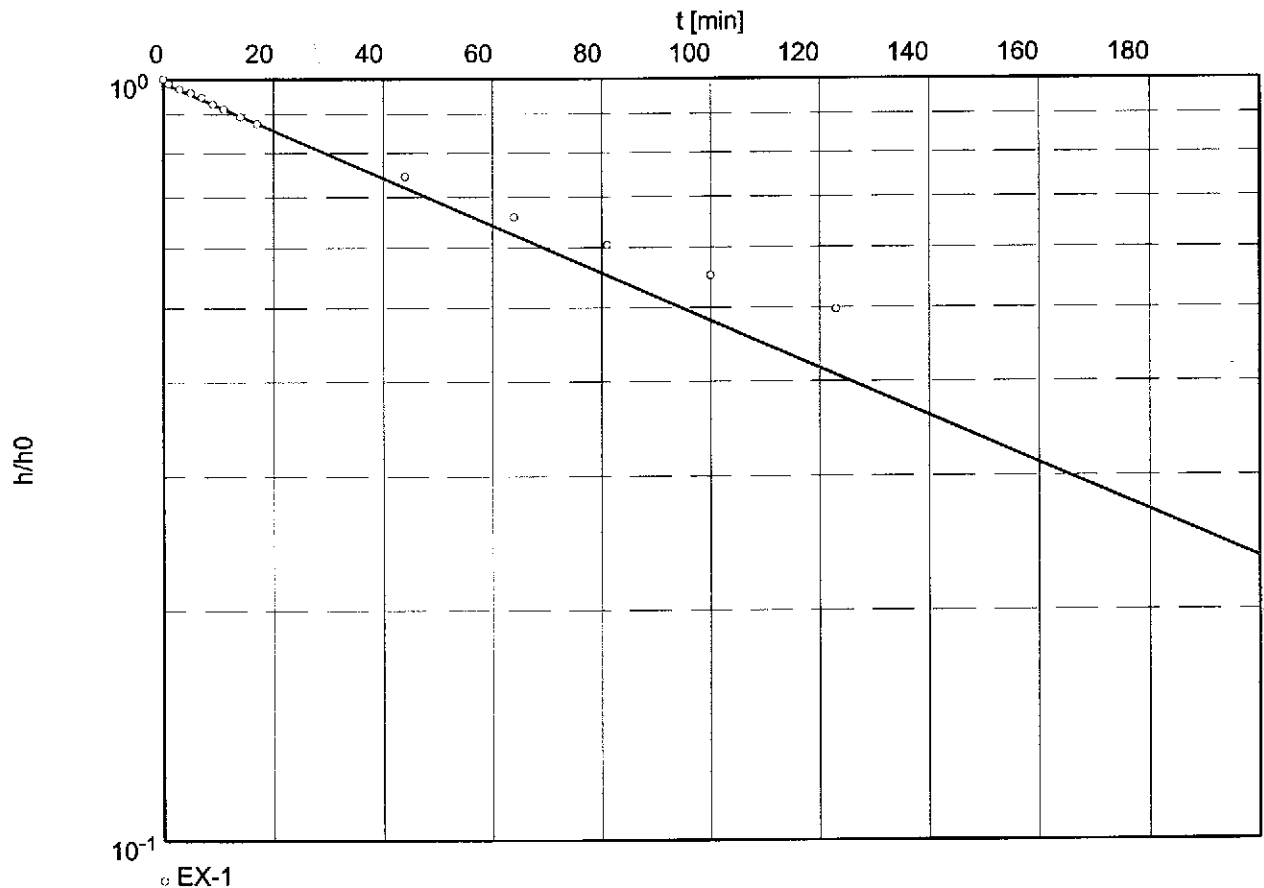
EX-1

Hydraulic conductivity [ft/min]: 3.85×10^{-5}

Slug Test No.

Test conducted on: April 27, 2000

EX-1

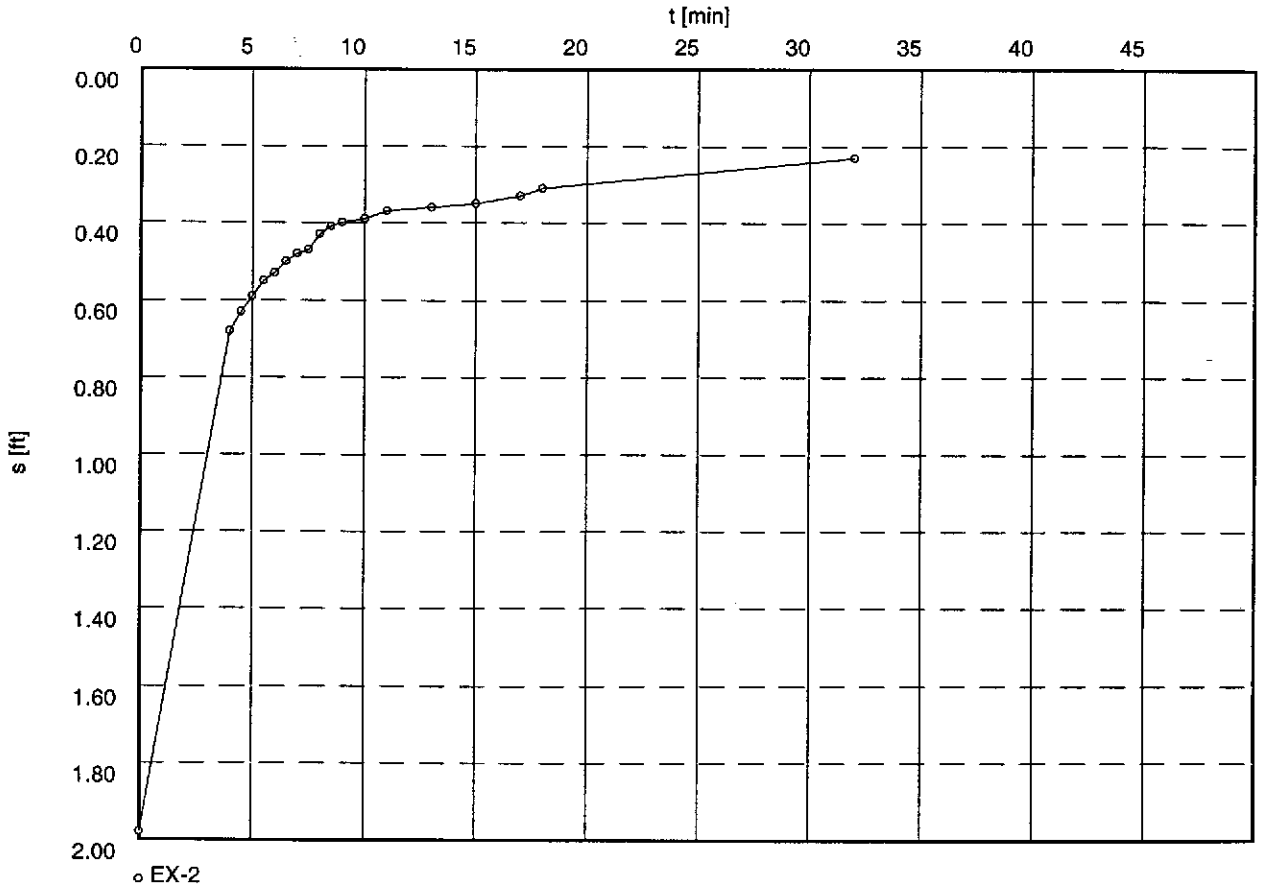


Hydraulic conductivity [ft/min]: 2.02×10^{-5}

Pumping Test No.

Test conducted on: April 27, 2000

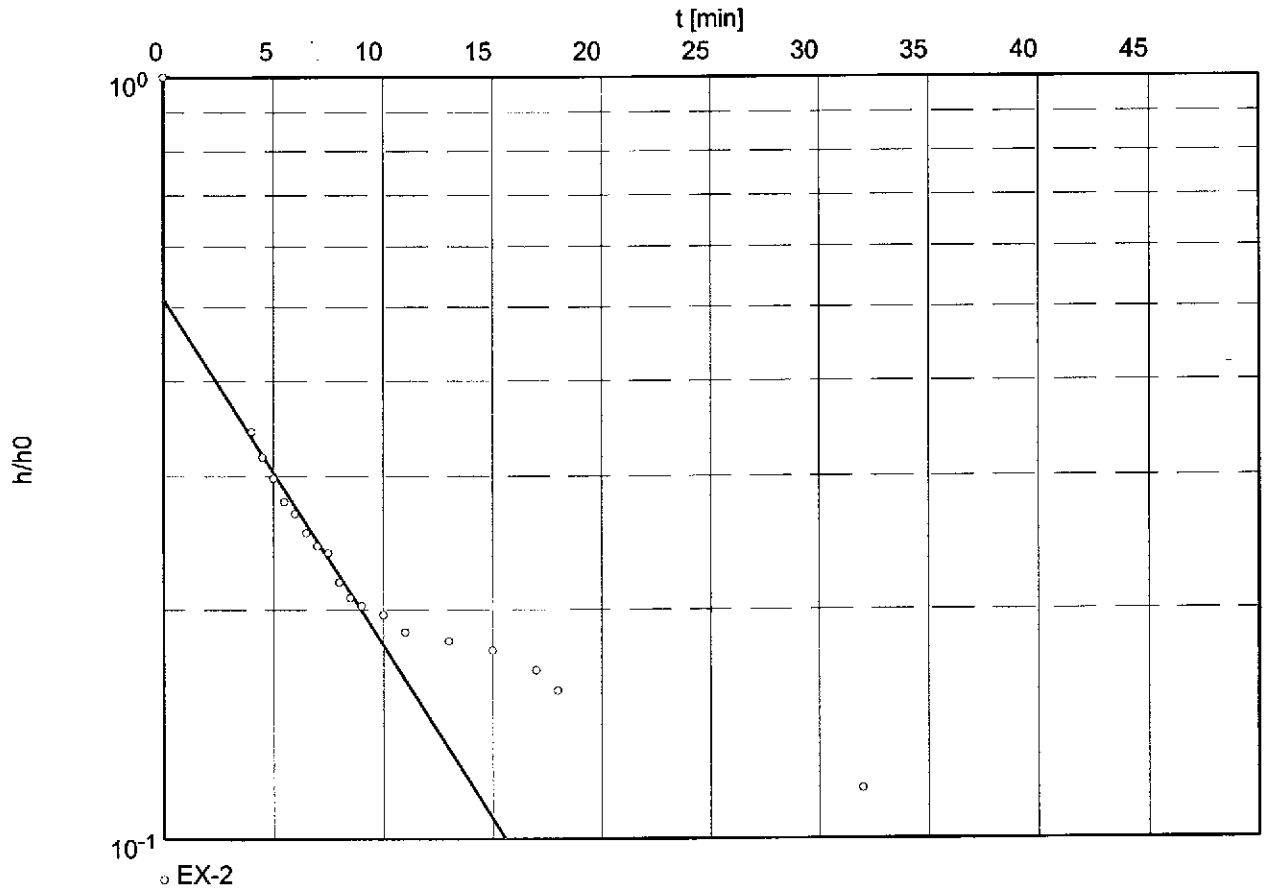
EX-2



Slug Test No.

Test conducted on: April 27, 2000

EX-2



Hydraulic conductivity [ft/min]: 5.13×10^{-4}

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slug/bail test analysis
HVORSLEV's method

Date: 03.05.2000 Page 1

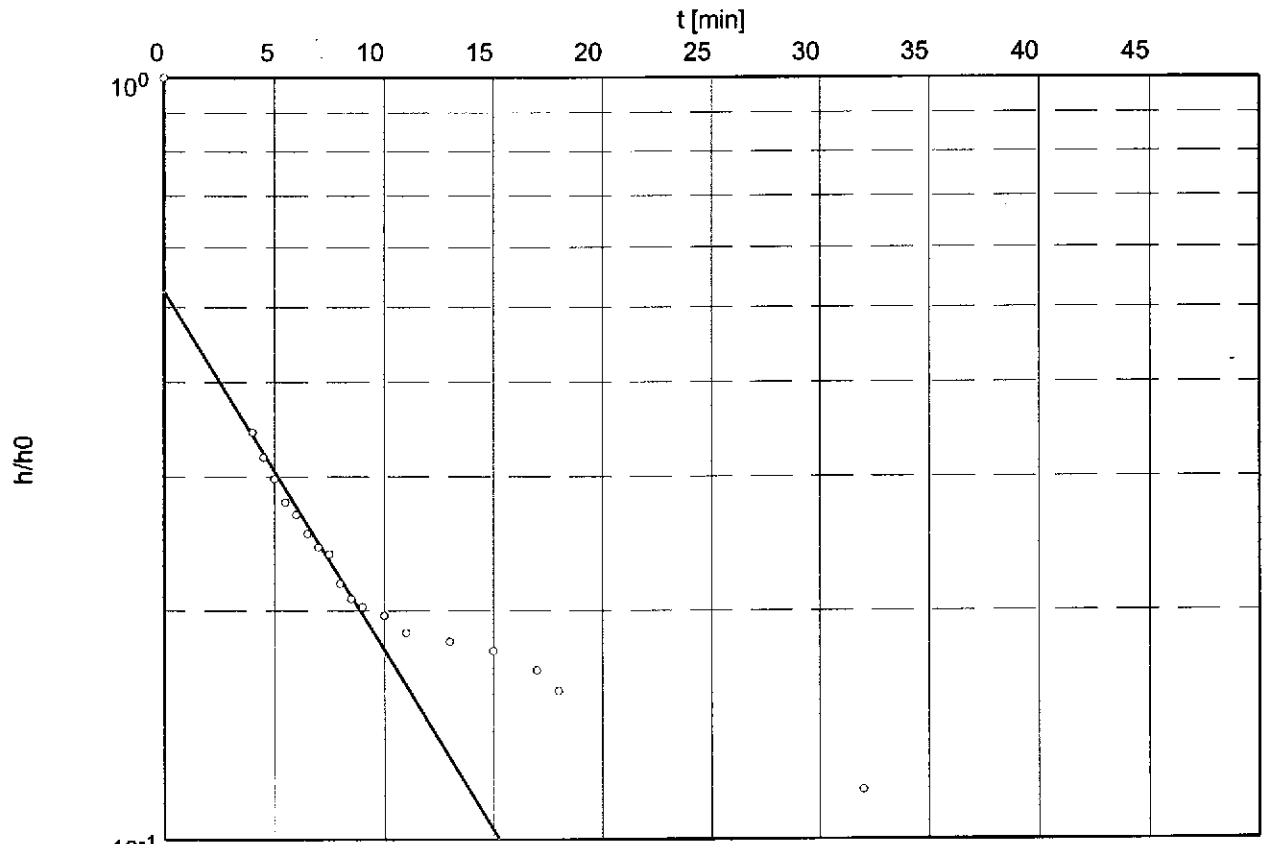
Project: BP-11117

Evaluated by:

Slug Test No.

Test conducted on: April 27, 2000

EX-2



o EX-2

Hydraulic conductivity [ft/min]: 3.04×10^{-4}

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Oakland, California 94608
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Pumping test analysis
Time-Drawdown plot

Date: 02.05.2000 Page 1

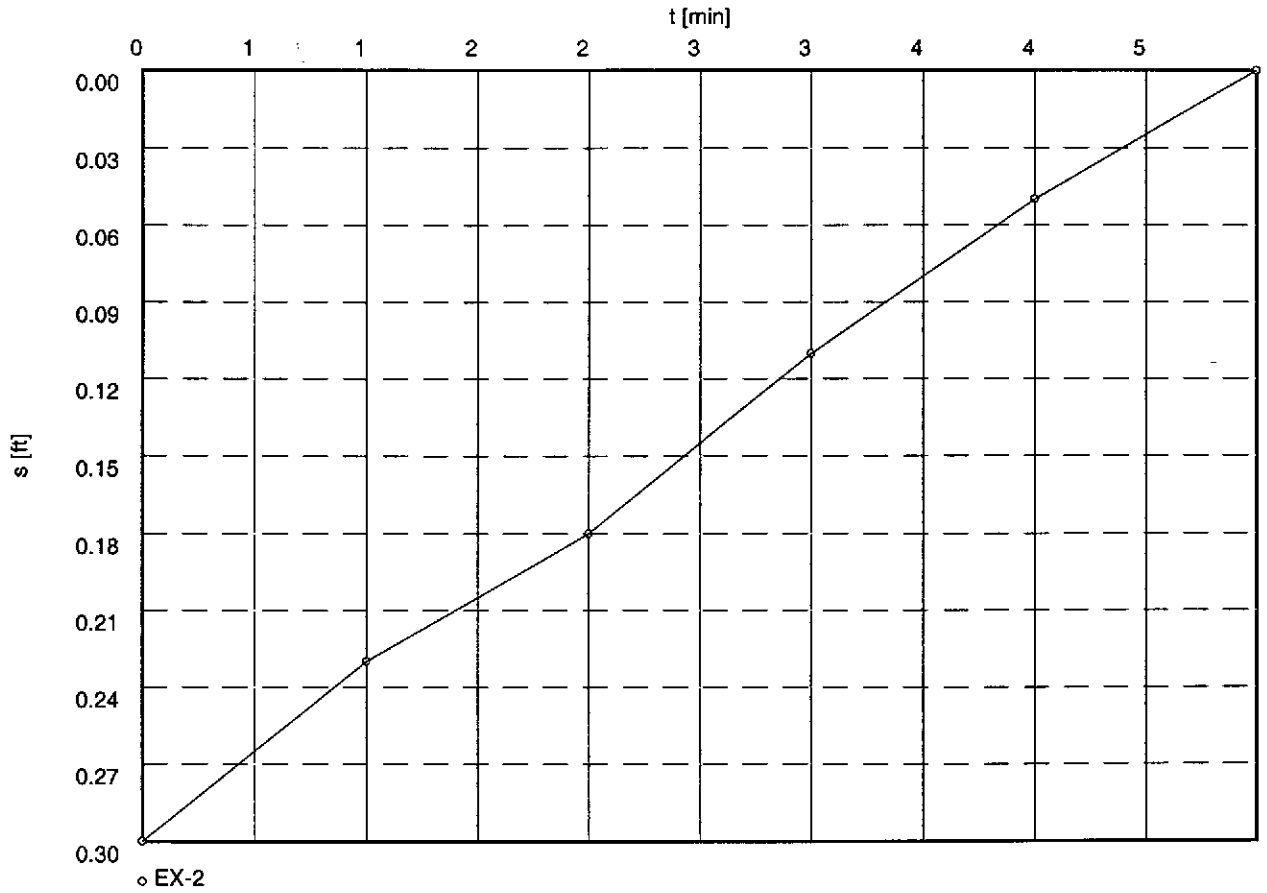
Project: BP-11117

Evaluated by:

Pumping Test No.

Test conducted on: April 28, 2000

EX-2



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slug/bail test analysis
BOUWER-RICE's method

Date: 02.05.2000 Page 1

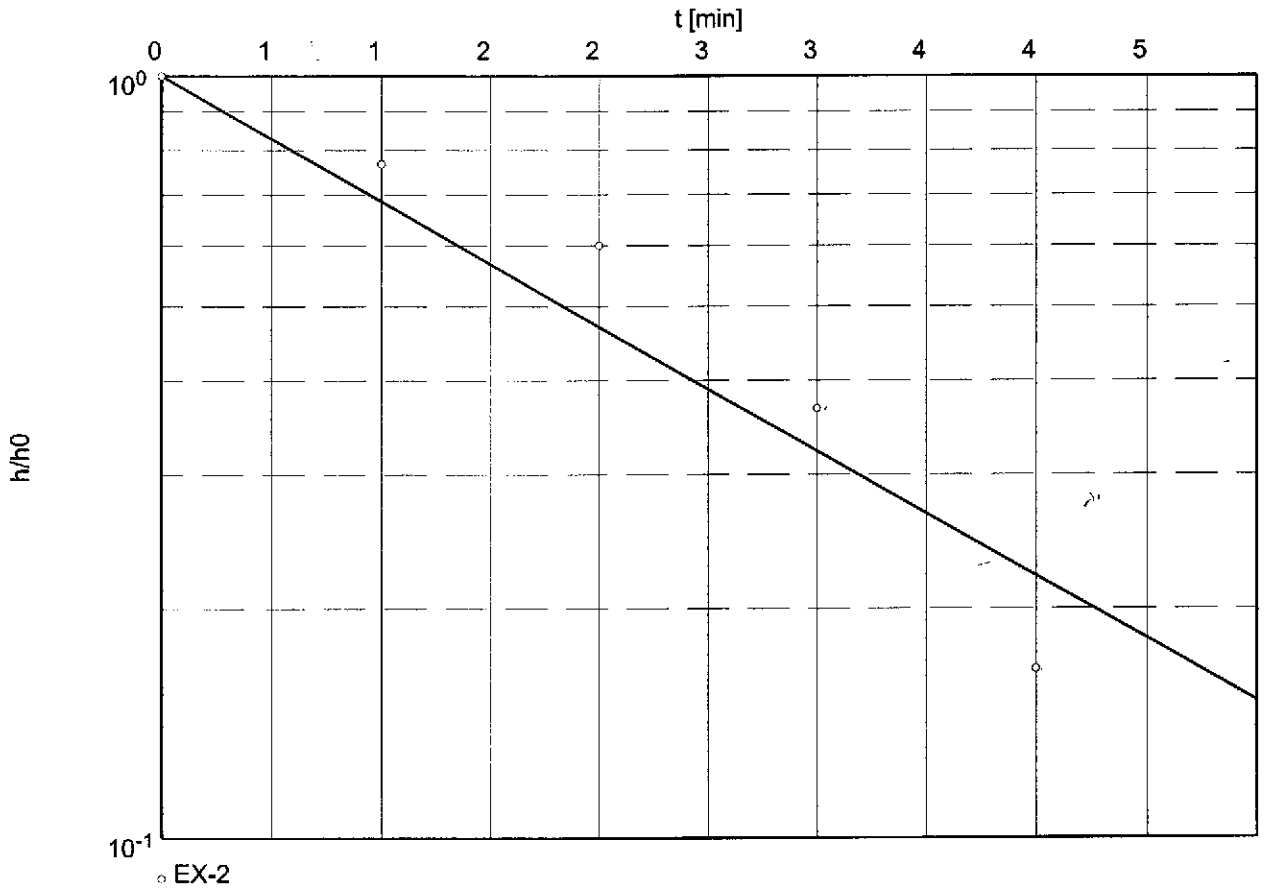
Project: BP-11117

Evaluated by:

Slug Test No.

Test conducted on: April 28, 2000

EX-2



Hydraulic conductivity [ft/min]: 2.13×10^{-3}

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slug/bail test analysis
HVORSLEV's method

Date: 02.05.2000 Page 1

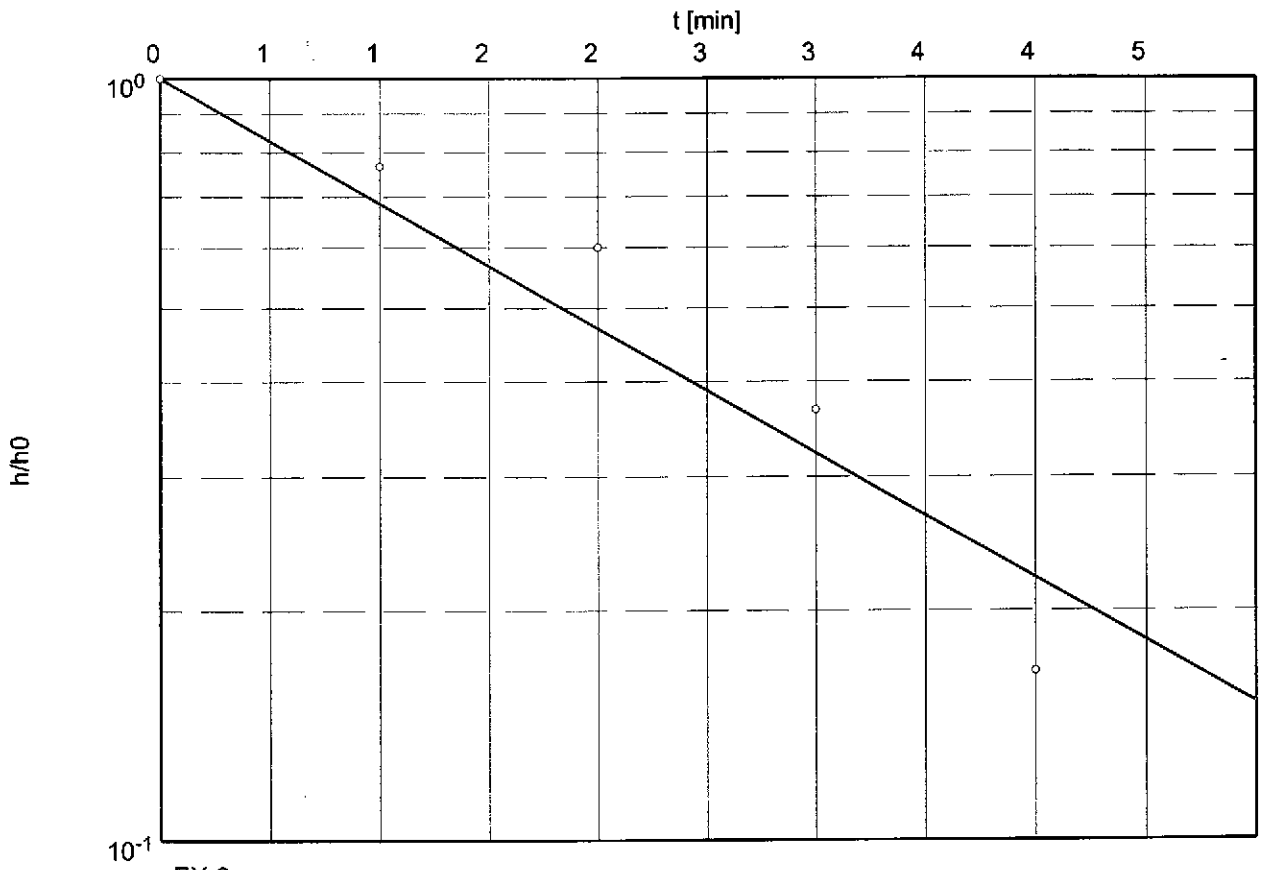
Project: BP-11117

Evaluated by:

Slug Test No.

Test conducted on: April 28, 2000

EX-2



Hydraulic conductivity [ft/min]: 1.06×10^{-3}