5500 Shellmound Street, Emeryville, CA 94608-2411

Fax. 510-547-5043 Phone: 510-54735420

LAP3618

April 9, 1993

Susan Hugo Alameda County Department of Environmental Health Hazardous Materials Division 80 Swan Way, Room 200 Oakland, CA 94621-1426

Re: Shell Service Station
WIC #204-5510-0303
5755 Broadway
Oakland, California 94606
WA Job #81-619-203

Dear Ms. Hugo:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1). This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 265.d. Included below are descriptions and results of activities performed in the first quarter 1993 and proposed work for the second quarter 1993.

First Ouarter 1993 Activities:

- Blaine Tech Services, Inc. (BTS) of San Jose, California measured ground water depths and collected ground water samples from the three site wells. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- Weiss Associates (WA) calculated ground water elevations and compiled the analytic data (Tables 1 and 2) and prepared a ground water elevation contour map (Figure 2).
- BTS purged approximately 0.4 gallons of floating hydrocarbons from the tank backfill observation wells.
- WA collected soil samples and installed a horizontal ground water extraction well while assisting with a sanitary sewer line upgrade at the site. The sampling results will be presented in a separate report.

Susan Hugo April 9, 1993



Anticipated Second Quarter 1993 Activities:

WA will submit a report presenting the results of the second quarter 1993 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, ground water elevations and a ground water elevation contour map.

2

Conclusion and Recommendations:

WA recommends monitoring dissolved hydrocarbon concentrations in the ground water monitoring wells for at least two quarters to assess whether the December 1992 hydrocarbon release has any long-term impact on ground water. If the hydrocarbon concentrations in well S-2 remain at current levels during the next few quarters, we will assess the need for additional investigation at the site.

Please call if you have any questions.

Sincerely,
Weiss Associates

J. Michael Asport
Technical Assistant

Joseph P. Theisen, C.E.G. Senior Hydrogeologist

JMA/JPT:jma

J:\SHELL\600\QMRPTS\619QMMA3.WP

No. EG-1645 CERTIFIED

ENGINEERING GEOLOGIST

Attachments:

Figures Tables

A - Blaine Tech's Ground Water Monitoring Report

cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998 Lester Feldman, Regional Water Quality Control Board - San Francisco Bay Region, 2101 Webster Street, Suite 500, Oakland, California 94612



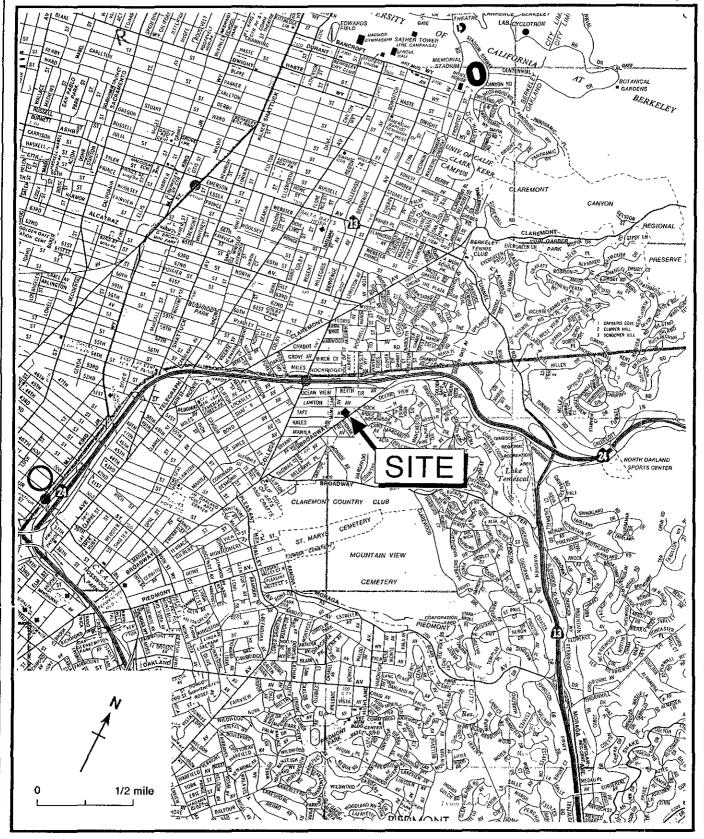


Figure 1. Site Location Map - Shell Service Station WIC #204-5510-0303, 5755 Broadway, Oakland, California

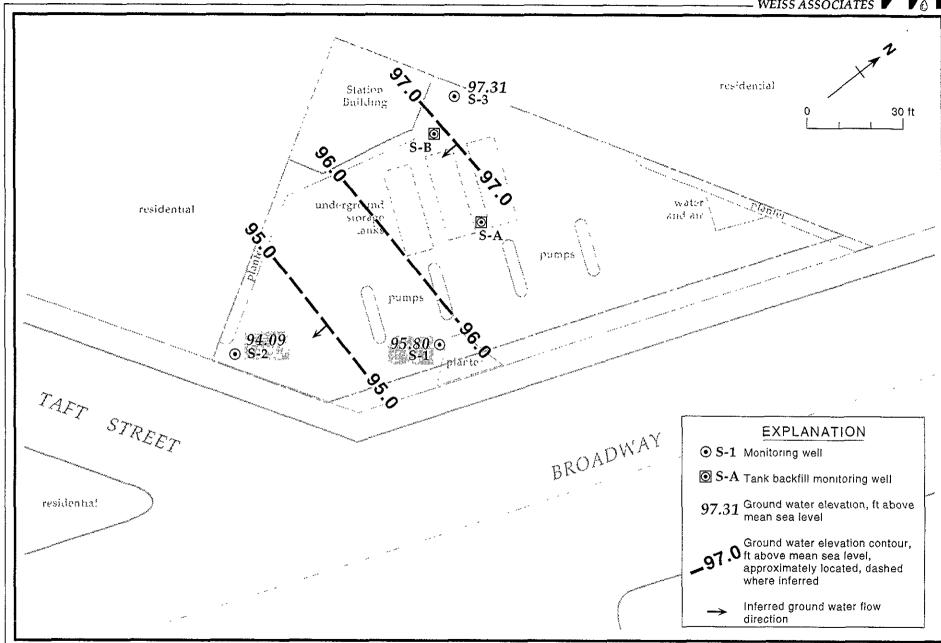


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - February 10, 1993 - Shell Service Station WIC#204-2004-0204, 5755 Broadway, Oakland, California

Table 1. Ground Water Elevations - Shell Service Station WIC #204-5510-0303, 5755 Broadway, Oakland, California

| Well ID | Date | Top-of-Casing Elevation | Depth to Water (ft) | Ground Water Elevation (ft above msl) |
|------------|----------|----------------------------|---------------------------|---------------------------------------|
| | Date | 210141011 | (10) | (10 400 10 1101) |
| S-1 | 06/03/91 | 100.00 | 3.51 | 96.49 |
| | 08/30/91 | | 4.24 | 95.76 |
| | 11/22/91 | | 4.29 | 95.71 |
| | 03/13/92 | | 2.87 | 97.13 |
| | 05/28/92 | | 3.79 | 96.21 |
| | 08/19/92 | | 4.43 | 95.57 |
| | 11/18/92 | | 4.34 | 95.66 |
| | 02/10/93 | | 4.20 | 95,80 |
| S-2 | 06/03/91 | 98.92 | 4.02 | 94.90 |
| | 08/30/91 | | 4.70 | 94.22 |
| | 11/22/91 | | 4.72 | 94.20 |
| | 03/13/92 | | 3.47 | 95.45 |
| | 05/28/92 | | 4.45 | 94.45 |
| | 08/19/92 | | 4.84 | 94.08 |
| | 11/18/92 | | 4.73 | 94.19 |
| | 02/10/93 | | 4.83 | 94.09 |
| S-3 | 06/03/91 | 101.67 | 3.25 | 98.42 |
| | 08/03/91 | | 4.73 | 96.94 |
| | 11/22/91 | | 4.81 | 96.86 |
| | 03/13/92 | | 2.29 | 99.38 |
| | 05/28/92 | | 3.62 | 98.05 |
| | 08/19/92 | | 4.66 | 97.01 |
| | 11/18/92 | | 4.51 | 97.16 |
| | 02/10/93 | | 4.36 | |

Note:

Top of casing elevations referenced to arbitrary elevation of 100 ft

| Sample ID | Date | Depth to Water (ft) | TPH-G | В | E parts per million (mg/L) | T | X |
|--------------|-----------------------|---------------------------|-------|----------|-------------------------------|-------------------|----------|
| | | | | | parts per interest (iia) 27 | | |
| s-1 | 06/03/91 | 3.51 | <0.03 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| | 08/30/91 | 4.24 | <0.03 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| | 11/22/91 | 4.29 | <0.03 | 0.0023 | 0.0003 | <0.00046 | <0.00065 |
| | 03/13/92 | 2.87 | <0.03 | <0.00052 | <0.0003 | <0.0003 | <0.0003 |
| | 05/28/92 | 3.79 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 08/19/92 | 4.43 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 11/18/92 | 4.34 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | | | | | | | |
| | 02/10/93 | 4.20 | 0.051 | 0.0014 | <0.0005 | <0.0005 | <0.0005 |
| | 02/10/93 ^a | 4,20 | <0.05 | 0,0012 | <0,0005 | <0.0005 | <0.0005 |
| s-2 | 06/03/91 | 4.02 | 0.49 | 0.15 | 0.0082 | 0.0027 | 0.007 |
| | 08/30/91 | 4.70 | 0.07 | 0.00037 | <0.0003 | <0.0003 | <0.0003 |
| | 11/22/91 | 4.72 | 1.6 | 0.110 | 0.029 | 0.0093 | 0.150 |
| | 03/13/92 | 3.47 | 1.3 | 0.21 | 0.034 | 0.0057 | 0.079 |
| | 05/28/92 | 4.45 | 0.10 | 0.028 | <0.0005 | <0.0005 | <0.0005 |
| | 08/19/92 | 4.84 | 0.47 | 0.042 | 0.0083 | <0.0005 | 0.0040 |
| | 11/18/92 | 4.73 | 0.49 | 0.043 | 0.017 | 0.039 | 0.029 |
| | | | | | | 0.760 | |
| | 02/10/93 | 4.83 | 19 | 0.710 | 0.080 | . 0.100 | 0.370 |
| s-3 | 06/03/91 | 3.25 | <0.03 | <0.0003 | 0.0003 | 0.0003 | 0.0003 |
| | 08/30/91 | 4.73 | <0.03 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| | 11/22/91 | 4.81 | <0.03 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| | 03/13/92 | 2.29 | <0.03 | <0.0003 | 0.0003 | 0.0003 | 0.0003 |
| | 05/28/92 | 3.62 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 08/19/92 | 4.66 | <0.05 | <0.0005 | <0.0005 | <0.0005 | 0.0005 |
| | 11/18/92 | 4.51 | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 02/10/93 | 4.36 | 0.30 | 0,0019 | 0.0024 | 0.0032 | 0.0056 |
| Bailer | 08/19/92 | | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Blank | 11/22/91 | | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Trip | 03/13/92 | | <0.03 | <0.0003 | <0.0003 | <0.0003 | <0.0003 |
| Blank | 05/28/92 | | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 08/19/92 | | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 11/18/92 | | <0.05 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| | 02/10/93 | | <0.05 | <0.0005 | < 0.0005 | <0.0005 | <0.0005 |
| DTSC MCLs | | • | NE | 0.001 | 0.680 | 0.10 ^b | 1.750 |

⁻⁻ Table 3 continues on next page --

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015

B = Benzene by EPA Method 8020

E = Ethylbenzene by EPA Method 8020

T = Toluene by EPA Method 8020

X = Xylenes by EPA Method 602 or 8020

--- = Not analyzed

DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water

NE = Not established

<n = Not detected at detection limits of n ppm</pre>

Notes:

a = Duplicate sample

b = DTSC recommended action level for drinking water; MCL not established



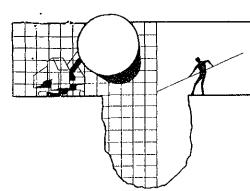
Table 3. Floating Hydrocarbon Removal - Shell Service Station WIC #204-5510-0303, 5755 Broadway, Oakland, California

| Well ID | Date | Floating Hydrocarbon Thickness (ft) | Volume of Hydrocarbons Removed (gal) | Cumulative Volume of Hydrocarbons Removed (gal) |
|------------|-------------|--|--|---|
| S-A | 02/10/93 | 0.43 | 0.40 | 0.41 |
| S-B | 02/10/93 | <0.01 | 0.01 | 0.01 |
| | Total Volum | ne of Hydrocarbons | Removed | 0.41 |



ATTACHMENT A

EMCON'S GROUND WATER MONITORING REPORT AND ANALYTIC REPORT



BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE SAN JOSE, CA 95133 (408) 995-5535 FAX (408) 293-8773

February 23, 1993

Shell Oil Company P.O. Box 5278 Concord, CA 94520-9998

Attn: Daniel T. Kirk

SITE: Shell WIC # 204-5510-0303 5755 Broadway Oakland, California

QUARTER: 1st quarter of 1993

QUARTERLY GROUNDWATER SAMPLING REPORT 930210-T-1

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a TABLE OF WELL GAUGING DATA. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of the water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ). At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU). In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site.

TABLE OF WELL GAUGING DATA

| WELL I.D. | WELL DIAMETER (inches) | DATA COLLECTION DATE | MEASUREMENTS REFERENCED TO | QUALITATIVE OBSERVATIONS (sheen) | DEPTH TO FIRST IMMISCIBLE LIQUID (FPZ) (feet) | THICKNESS OF IMMISCIBLE LIQUID ZONE (feet) | VOLUME OF IMMISCIBLES REMOVED (ml) | DEPTH TO WATER (feet) | DEPTH TO WELL BOTTOM (feet) |
|--------------|------------------------------|----------------------------|----------------------------------|--|--|---|---|--------------------------------|--------------------------------------|
| S-1 * | 4 | 02-10-93 | TOP OF PIPE | | NONE | | | 4.20 | 11.81 |
| S-2 | 4 | 02-10-93 | TOP OF PIPE | | NONE | ~~ | | 4.83 | 9.44** |
| S-3 | 4 | 02-10-93 | TOP OF PIPE | | NONE | | | 4.36 | 9.57 |
| S-4 | | 02-10-93 | | FREE PRODUCT | | <0.01 | <40 | | |
| s-5 | | 02-10-93 | | FREE PRODUCT | | 0.43 | 1500 | 000 ann | |

^{*} Sample DUP was a duplicate sample taken from S-1.

^{**} DTB is an approximate measurement due to a bailer that was later found and removed from this well.

STANDARD PROCEDURES

Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water may be removed in cases where more evacuation is needed to achieve stabilization of water parameters. Less than three case volumes of water may be obtained in cases where the well dewaters and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty four hours and collect sample material from the water which has recharged into the well case.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site.

Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging. Skimmers are installed in wells with a free product zone on the surface of the water. The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements. The 2.0" and 3.0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well. This recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such site is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

Shell 5755 Broadway, Oakland page 3

Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label. Either the requested analyses or the specific analytes are written on the sample label (e.g. TPH-G, BTEX).

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to Anametrix, Inc. in San Jose, California. Anametrix, Inc. is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #1234.

Objective Information Collection

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of

Shell 5755 Broadway, Oakland page 4

remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

Reportage

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.

RCB/lpn

attachments: chain of custody

certified analytical report

cc: Weiss Associates

5500 Shellmound Street Emeryville, CA 94608-2411 ATTN: Kristina Koltavary (alle for:

9302140 SHELL OIL COMPANY CHAIN OF CUSTODY RECORD 21093 Date: RETAIL ENVIRONMENTAL ENGINEERING - WEST Sorial No:__ Page 101 Site Address: BROADWAY Analysis Required ANAMETRIX WIC#: CHECK OHE (I) LOX OHLY CIVE TURN AROUND THAT 204 2004 0204 Shell Engineer: enhotecki thehous Phono No.: 510 24 hours [DANIEL T. KIRK Fax #:675-6171 Sile Investigation Consultant Name & Address: Soll Closelly/Disposal BLAINE TECH SERVICES Consultant Contact: Phone No.: 408 Volatile Organics (EPA 8240) Clouity/Okpoid TPH (EPA 8015 Mod. Diesel) Fax #: 995-5535 SOR/Alt Rom. of Sys. GUENN 8015 & ☐ 6482 NOTE: Holly Lab as soon as Possible of 24/44 hm. TAI. Commonis: Works from or Sys. 🗌 សស Combination IPH Preparation Used 0ther Test for Disposal Sampled by: Evoni This Container Size Printed Namo: FRANCIS THINE SAMPLE MATERIAL CONDITION/ DESCRIPTION Sample 1D No. of Date Sludge Soll Water COMMENTS conis. 2.10 3 סזיכו 3 53 3 3 DUP 7,10 TB Rollnguished By (signature): Printed Name: FRANCIS Date: 2/1/93 (Sectived (Approximate)):
Ilme: 1545 (March 6) (March 1)
Date: 2-1/9 Referred (Approximate)
Ilme: 168 (Leau (Approximate)) Rinied Name:

ANNY S. Cappion

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Piliped Name: Ilme: /57 ralinguished by (Whature): Dole:2/// Relinquished By (signature): Printed Name: Received (signature); Dale: THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

ANAMETRIX INC Environmental & Analytical Chemistry

Part of Incheape Environmental



MR. GLEN BENNETT BLAINE TECH

985 TIMOTHY STREET SAN JOSE, CA 95133 Workorder # : 9302160 Date Received: 02/11/93 Project ID: 204-2004-0204

Purchase Order: MOH-B813

The following samples were received at Anametrix, Inc. for analysis:

| ANAMETRIX ID | CLIENT SAMPLE ID |
|--------------|------------------|
| 9302160- 1 | S-1 |
| 9302160- 2 | S-2 |
| 9302160- 3 | S-3 |
| 9302160- 4 | DUP |
| 9302160- 5 | TB |

This report consists of 5 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen, Ph.D.

Laboratory Director

REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. GLEN BENNETT

BLAINE TECH

985 TIMOTHY STREET SAN JOSE, CA 95133

Workorder # : 9302160
Date Received : 02/11/93
Project ID : 204-2004-0204
Purchase Order: MOH-B813
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

| ANAMETRIX SAMPLE ID | CLIENT SAMPLE ID | MATRIX | DATE SAMPLED | METHOD |
|------------------------|---------------------|--------|-----------------|-----------|
| 9302160- 1 | S-1 | WATER | 02/10/93 | TPHg/BTEX |
| 9302160- 2 | S-2 | WATER | 02/10/93 | TPHg/BTEX |
| 9302160- 3 | S-3 | WATER | 02/10/93 | TPHg/BTEX |
| 9302160- 4 | DUP | WATER | 02/10/93 | TPHg/BTEX |
| 9302160- 5 | TB | WATER | 02/08/93 | TPHg/BTEX |

REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

MR. GLEN BENNETT BLAINE TECH

985 TIMOTHY STREET SAN JOSE, CA 95133

Workorder # : 9302160 Date Received : 02/11/93 Project ID : 204-2004-0204 Purchase Order: MOH-B813

Department : GC Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Ohenst Balmer Department Supervisor

Lucia Shor 2/25/93

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9302160

Project Number : 204-2004-0204 Date Released : 02/25/93

Matrix : WATER Date Sampled : 02/08 & 10/93

| | Reporting Limit | Sample I.D.# S-1 | Sample I.D.# S-2 | Sample I.D.# S-3 | Sample I.D.# DUP | Sample I.D.# TB |
|--|--------------------------|------------------------------|----------------------------------|---------------------------------|------------------------------|------------------------------|
| COMPOUNDS | (ug/L) | | -02 | -03 | -04 | -05 |
| Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline | 0.5 0.5 0.5 0.5 | 1.4 ND ND ND 51 | 710 760 80 370 19000 | 1.9 3.2 2.4 5.6 300 | 1.2 ND ND ND ND | ND ND ND ND ND |
| <pre>% Surrogate Recovery Instrument I.D. Date Analyzed RLMF</pre> | | 106% HP4 02/16/93 1 | 108% HP4 02/18/93 50 | 107% HP4 02/17/93 | 101% HP4 02/17/93 1 | 107% HP4 02/16/93 1 |

ND - Not detected at or above the practical quantitation limit for the

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

<u>luna Shar 2/25/93</u> Analyst Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9302160 Project Number: 204-2004-0204

Matrix : WATER Date Released : 02/25/93

Date Sampled : N/A

| | Reporting Limit | | Sample I.D.# BF1701E3 | I.D.# | |
|---|--------------------|---|---|---|--|
| COMPOUNDS | (ug/L) | BLANK | BLANK | BLANK | |
| Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline % Surrogate Rece Instrument I.1 Date Analyzed RLMF | | ND ND ND ND ND 123% HP4 02/16/93 | ND ND ND ND ND 114% HP4 02/17/93 | ND ND ND ND ND 102% HP4 02/18/93 | |

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 61-139%

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Juna Shr 2/25/93 Analyst Date

Charles 2/25 h3
Supervisor Date

BTEX LABORATORY CONTROL SAMPLE REPORT EPA METHOD 5030 WITH GC/PID ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE Anametrix I.D.: LCSW0217

Matrix : WATER Date Sampled : N/A

Analyst : IS
Supervisor : #
Date Released : 02/25/93
Instrument ID : HP4 Date Analyzed : 02/17/93

| COMPOUND | SPIKE AMT. (ug/L) | LCS (ug/L) | REC LCS | %REC LIMITS |
|---|------------------------------|------------------------------|------------------------------|--------------------------------------|
| Benzene Toluene Ethylbenzene TOTAL Xylenes | 20.0 20.0 20.0 20.0 | 20.5 21.0 21.0 20.2 | 102% 105% 105% 101% | 52-133 57-136 56-139 56-141 |
| P-BFB | | | 69% | 61-139 |

^{*} Limits established by Anametrix, Inc.