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Quarterly Monitoring Report for  
April 1 through June 30, 1994  
Former Bashland Property  
Emeryville, California

July 25, 1994  
1649.10

Prepared for  
Catellus Development Corporation  
201 Mission Street  
San Francisco, California



**LEVINE·FRICKE**



# LEVINE•FRICKE

ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

July 25, 1994

LF 1649.10

Ms. Susan Hugo  
Alameda County Health Care Services Agency  
80 Swan Way, Suite 200  
Oakland, California 94621

Subject: Quarterly Monitoring Report for April 1 through  
June 30, 1994, Former Bashland Property, Emeryville,  
California

Dear Ms. Hugo:

Enclosed is the quarterly monitoring report for April 1 through June 30, 1994, for the former Bashland property, located in Emeryville, California. This report has been prepared on behalf of Catellus Development Corporation ("Catellus") for the redevelopment project at the Yerba Buena/East Baybridge Center Project Site ("the Site"), in accordance with your February 22, 1994 letter to Kimberly Brandt of Catellus. That letter requested continued quarterly monitoring of well LF-31 and analysis of total petroleum hydrocarbons (TPH) as diesel (TPHd), TPH as motor oil (TPHo), and volatile organic compounds (VOCs). The enclosed report presents the results for ground-water monitoring activities conducted in July 1994.

As discussed in the meeting on June 21, 1994, among representatives of the Alameda County Health Care Services Agency (ACHA), the Regional Water Quality Control Board (RWQCB), Catellus, and Levine-Fricke, the ground-water monitoring program for the Site will consider the entire development as a "nonattainment area." The former Bashland Property, located in the eastern portion of the Site, is located within the nonattainment area.


Additionally, monitoring well LF-31, which was used to monitor ground-water quality beneath the former Bashland Property, was abandoned to accommodate grading that took place in this area on June 30, 1994. Consequently, the next ground-water monitoring event for the Site, including the former Bashland Property, will be conducted after site development has been completed.

1900 Powell Street, 12th Floor  
Emeryville, California 94608  
(510) 652-4500  
Fax (510) 652-2246

## LEVINE·FRICKE

If you have any questions or comments regarding this report,  
please call me or Andrew L. Wright, R.G.

Sincerely,



Ron Goloubow  
Senior Project Geologist

Enclosure

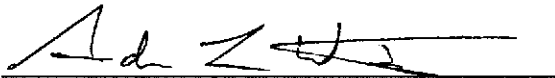
cc: Mr. Sumadhu Arigala, RWQCB  
Ms. Kimberly Brandt, Catellus Development  
Mr. Pat Cashman, Catellus Development

CONTENTS

|  | <u>PAGE</u> |
|--|-------------|
| CERTIFICATION . . . . .  | ii          |
| 1.0 INTRODUCTION . . . . .   | 1           |
| 2.0 BACKGROUND AND PREVIOUS INVESTIGATIONS . . . . .   | 1           |
| 3.0 QUARTERLY MONITORING ACTIVITIES CONDUCTED DURING THE PERIOD FROM APRIL 1 THROUGH JUNE 30, 1994 . . . . . | 2           |
| 3.1 Water-Level Measurement . . . . .  | 2           |
| 3.2 Sampling . . . . .   | 2           |
| 3.3 Laboratory Analysis . . . . .  | 3           |
| 4.0 GROUND-WATER ELEVATIONS AND FLOW DIRECTION . . . . .   | 3           |
| 5.0 ANALYTICAL RESULTS . . . . .   | 3           |
| 6.0 CONCLUSIONS AND RECOMMENDATIONS . . . . .  | 4           |
| REFERENCES . . . . .   | 6           |
| TABLE 1 CHEMICAL ANALYSES RESULTS FOR MONITORING WELL LF-31  |             |
| FIGURE 1 SITE LOCATION MAP   |             |
| FIGURE 2 SHALLOW GROUND-WATER ELEVATION CONTOURS, JUNE 6, 1994   |             |
| APPENDICES:  |             |
| A WATER-QUALITY SAMPLING SHEET   |             |
| B LABORATORY DATA SHEETS   |             |

CERTIFICATION

All hydrogeologic and geologic information, conclusions, and recommendations presented in this report have been prepared under the supervision of and reviewed by a Levine·Fricke California Registered Geologist.



Andrew L. Wright  
Principal Geologist  
California Registered Geologist (4592)

7/25/94  
Date

July 25, 1994

LF 1649.10

**QUARTERLY MONITORING REPORT FOR  
APRIL 1 THROUGH JUNE 30, 1994  
FORMER BASHLAND PROPERTY, EMERYVILLE, CALIFORNIA**

**1.0 INTRODUCTION**

This report presents results of quarterly ground-water monitoring activities conducted during the period April 1 to June 30, 1994, for the former Bashland Property located at 4015 Hollis Street in Emeryville, California (Figure 1). Levine·Fricke conducted this work on behalf of Catellus Development Corporation ("Catellus") in accordance with a February 22, 1994 letter from Ms. Hugo of the Alameda County Health Care Services Agency (ACHA). That letter requested continued quarterly monitoring of well LF-31 and analysis of total petroleum hydrocarbons (TPH) as diesel (TPHd), TPH as motor oil (TPHo), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and volatile organic compounds (VOCs).

**2.0 BACKGROUND AND PREVIOUS INVESTIGATIONS**

Between March 23 and May 7, 1992, Levine·Fricke supervised the removal of one 1,200-gallon oil and two 12,000-gallon fuel underground storage tanks (USTs) from the former Bashland property by Trumpp Brothers, Inc., of San Jose, California, under permits from the City of Emeryville (permit number B-4278-492), the Emeryville Fire Department (EFD), and the ACHA. Ms. Susan Hugo, Senior Hazardous Materials Specialist with the ACHA, Mr. Ron Owcarz, Hazardous Materials Specialist with the ACHA, and a representative of the EFD were on site to observe tank removal and soil sampling activities. Several small holes were observed in two of the three USTs removed.

Chemical analysis results for soil samples collected from the excavation sidewalls indicated low concentrations (below detection limits to 2 parts per million [ppm]) of petroleum product or associated constituents. TPHo was detected in one of the floor samples at a concentration of 1,500 ppm; however, TPHo concentrations were below laboratory detection limits in the other samples. Soil beneath and adjacent to the sampling location reporting the 1,500 ppm detection was excavated and removed. On the basis of these results, the excavation was backfilled using 3/4-inch drain rock and clean imported fill material on May 6 and 7, 1992, upon approval of the ACHA.

Following installation of monitoring well LF-31 downgradient from and within 10 feet of the former USTs (Figure 2) in February 1993 (Levine·Fricke 1992 and 1993), a quarterly ground-water monitoring program was implemented at the former Bashland property to assess whether a possible release of petroleum hydrocarbons has affected shallow ground water in the vicinity of the former UST locations. As part of this monitoring program, samples collected from well LF-31 also were analyzed periodically for VOCs using EPA Method 8010 to monitor possible concentrations of VOCs in shallow ground water that may have migrated on site from known off-site VOC sources located north of the former Bashland property (i.e., the Electro-Coatings, Inc. [ECI] and/or Del Monte sites; Figure 1).

### **3.0 QUARTERLY MONITORING ACTIVITIES CONDUCTED DURING THE PERIOD FROM APRIL 1 THROUGH JUNE 30, 1994**

The activities conducted and the results obtained for April 1 through June 30, 1994, are presented below.

#### **3.1 Water-Level Measurement**

Water-level measurements for well LF-31 are typically taken in conjunction with measurements in nearby wells. Depth to water was measured on June 6, 1994, in wells LF-10, LF-11R, LF-13, LF-32, LF-34, and LF-35, which are located in the general vicinity of well LF-31 within Area C of the Yerba Buena/East Baybridge Center Project site ("the Site"). However, depth to water was not measured in well LF-31 on June 6 because lumber was being stored on top of the well, making the well inaccessible. The depth to water in well LF-31 was measured on June 21, 1994 before ground-water samples were collected.

Measurements were made using an electric water-level sounding probe to the nearest 0.01 foot, relative to the top of the PVC well casing.

#### **3.2 Sampling**

Ground-water samples were collected for chemical analyses from well LF-31 on June 21, 1994. Before ground-water samples were collected from this well, approximately four well casing volumes of water were purged from the well using a centrifugal pump. Parameters such as pH, temperature, specific conductance, quantity, and clarity of water withdrawn were measured and recorded on a water-quality sampling sheet. A copy of this sheet is included in Appendix A.

Ground-water samples were collected immediately following purging of the well using a clean Teflon bailer. Samples collected for analysis of VOCs were placed into laboratory-supplied, 40-milliliter glass vials preserved with hydrochloric acid (HCl). The glass vials were filled to capacity, capped, and checked for trapped air bubbles. Samples collected for TPHd analysis were poured into laboratory-supplied 1-liter amber bottles preserved with HCl. Samples were placed into an ice-chilled cooler immediately after collection for transportation under chain-of-custody protocols to a state-certified laboratory for chemical analysis. Copies of the laboratory certificates and chain-of-custody form are included in Appendix B.

### 3.3 Laboratory Analysis

Ground-water samples were submitted to American Environmental Network Inc., of Pleasant Hill, California, a state-certified laboratory, and analyzed using EPA Method 3510 GCFID for TPHd and TPHo, and for VOCs using EPA Method 8010.

### **4.0 GROUND-WATER ELEVATIONS AND FLOW DIRECTION**

The depth to water measured in well LF-31 on June 21, 1994, was 5.91 feet below ground surface, which corresponds to a ground-water elevation of 11.12 feet above mean sea level. This represents a decrease in ground-water elevation of 0.22 foot relative to March 1994 data (Levine-Fricke 1994).

Depth to water measured in Area C on June 6, 1994, ranged from 5.88 feet below ground surface (bgs) in wells LF-10 to 9.01 feet bgs in well LF-34. Ground-water elevation data for Area C of the Site is provided in Figure 2. As indicated in Figure 2, ground-water elevation data collected on June 6 indicate the ground-water flow direction beneath Area C is generally toward the southwest under an average hydraulic gradient of 0.0067 foot per foot. The ground-water flow direction beneath the former Bashland Property and Area C has historically been toward the west-southwest.

### **5.0 ANALYTICAL RESULTS**

A historical summary of analytical results for well LF-31 is presented in Table 1. Analytical results for this quarter are generally consistent with previous results reported for well



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LF-31. TPHd and TPHo were detected at concentrations of 0.400 ppm and 0.200 ppm, respectively. Trichloroethene (0.005 ppm) and 1,2-dichloroethene (0.002 ppm) also were detected.

Laboratory certificates for ground-water samples are presented in Appendix B.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

Ground-water samples have been collected from well LF-31 during the past six quarters. Analytical results of these samples indicate shallow ground water has not been affected by a possible release of petroleum hydrocarbons, with the exception of TPHd and TPHo. These compounds have been detected at low concentrations of 0.400 ppm (TPHd) and 0.200 ppm (TPHo) or less.

While VOCs have been detected in ground-water samples collected from well LF-31, no on-site source for VOCs was identified during the background and regulatory literature review conducted at the initiation of the Phase I investigation in 1989. In addition, no VOC source was identified during removal of the USTs, oil/water separator, or hydraulic lifts formerly located at the former Bashland property.

TCE and 1,2-DCE were detected at concentrations of 0.005 ppm and 0.002 ppm, respectively. However, as indicated in a letter dated May 11, 1994, from the Regional Water Quality Control Board (RWQCB) to Ms. Kimberly Brandt of Catellus, the RWQCB recognizes that VOCs detected in ground water in Area C appear to be from an off-site source. Possible off-site sources for VOCs detected in shallow ground water in the vicinity of well LF-31 and other Area C wells (LF-10 and LF-11; Figure 3 of Levine·Fricke 1993) include the ECI site, located at 1201 Park Avenue, and the Del Monte Plant Number 35 West Parcel site, located at 4202 Hollis Street in Emeryville, California.

As discussed in the meeting on June 21, 1994, among representatives of the ACHA, the RWQCB, Catellus, and Levine·Fricke, the ground-water monitoring program for Site will consider the entire development as a "nonattainment area." The former Bashland site, located in the eastern portion of the Site, is located within the nonattainment area.

## LEVINE·FRICKE

Additionally, monitoring well LF-31, which is used to monitor ground-water quality beneath the former Bashland site, was abandoned to accommodate grading that took place in this area on June 30, 1994. This well will be reinstalled and the next ground-water monitoring event in this portion of the Site will be conducted after site development has been completed.

# LEVINE·FRICKE

## REFERENCES

- Alameda County Health Care Services Agency (ACHA). 1994. Correspondence to Ms. Kimberly Brandt of Catellus Development Corporation. Subject: Status of Soil and Groundwater Investigation. February 22.
- American Environmental Management Corporation. 1992. Ground Water Monitoring Report for Electro-Coatings, Inc., Emeryville, California. January 27.
- CH2M Hill. 1990. Quarterly Monitoring Data for Del Monte's Plant 35 West Parcel, Removed Fuel Tanks Area at 4202 Hollis Street, Emeryville, California.
- Levine·Fricke, Inc. 1992. Work Plan to Install One Ground-Water Monitoring Well and Conduct Quarterly Monitoring, Bashland Property, Emeryville, California. December 15.
- Levine·Fricke, Inc. 1993. Combined Soil and Ground-Water Investigation Report and Quarterly Monitoring Report for the Period from April 1 through June 30, 1993, Former Bashland Property, Emeryville, California. April 5.
- Levine·Fricke, Inc. 1994. Quarterly Monitoring Report for January 1 through March 31, 1994, Former Bashland Property, Emeryville, California. April 29.

TABLE 1

CHEMICAL ANALYSES RESULTS FOR MONITORING WELL LF-31  
FORMER BASHLAND COMPANY PROPERTY  
(results in parts per million [ppm])

| Date Sampled           | Lab |     | TRPH | THPd  | TPHo  | THPg  | Benzene | Toluene | Ethyl-benzene | Total Xylenes | TCE    | 1,2-DCE |
|------------------------|-----|-----|------|-------|-------|-------|---------|---------|---------------|---------------|--------|---------|
| 12-Feb-93              | ANA | (1) | <5   | <0.05 | NA    | <0.05 | <0.0005 | <0.0005 | <0.0005       | <0.0005       | NA     | NA      |
| 26-May-93<br>duplicate | ANA |     | <5   | 0.200 | NA    | NA    | NA      | NA      | NA            | NA            | 0.020  | 0.0039  |
|                        |     |     | <5   | 0.310 | NA    | NA    | NA      | NA      | NA            | NA            | 0.020  | 0.0034  |
| 14-Jul-93<br>duplicate | ANA | (2) | <5   | 0.150 | NA    | NA    | NA      | NA      | NA            | NA            | 0.0073 | 0.0024  |
|                        | AEN |     | <1   | 0.400 | NA    | NA    | NA      | NA      | NA            | NA            | 0.010  | 0.002   |
| 09-Dec-93              | ANA |     | <5   | 0.200 | 0.100 | <0.05 | <0.0005 | <0.0005 | <0.0005       | <0.0005       | NA     | NA      |
| 11-Mar-94<br>duplicate | ANA | (3) | NA   | 0.110 | 0.210 | NA    | NA      | NA      | NA            | NA            | 0.0054 | 0.003   |
|                        | ANA | (4) | NA   | NA    | NA    | NA    | NA      | NA      | NA            | NA            | 0.006  | 0.0034  |
| 21-Jun-94              | AEN |     | NA   | 0.400 | 0.200 | <0.05 | <0.0005 | <0.0005 | <0.0005       | <0.002        | 0.005  | 0.002   |

Data entered by REG/12-Jul-94. Data proofed by REG

ANA - Anametrix, Inc., of San Jose, California

AEN - American Environmental Network of Pleasant Hill, California

TRPH - Total recoverable petroleum hydrocarbons as oil and grease, analyzed using Standard Methods 5520BF.

THPd - Total petroleum hydrocarbons as diesel, analyzed using EPA Method 3510.

TPHo - Total petroleum hydrocarbons as oil, analyzed using EPA Method 3510.

THPg - Total petroleum hydrocarbons as gasoline, analyzed using EPA Method 3550.

Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020.

TCE - Trichloroethene, analyzed using EPA Method 8010.

1,2-DCE - 1,2-dichloroethene, analyzed using EPA Method 8010.

NA - Not analyzed

(1) Ground-water samples also analyzed for cadmium, chromium, nickel, lead, and zinc, and semivolatile organic compounds using EPA Method 8270. None of these compounds were detected above laboratory detection limits.

(2) Tetrachloroethene (PCE) detected at a concentration of 0.0063 ppm.

(3) Chloroform detected at 0.0012 ppm.

(4) Chloroform detected at 0.0014 ppm.



MAP SOURCE:  
Thomas Bros. Map  
Alameda and Contra Costa Counties  
EDITION 1992

Figure 1: SITE LOCATION MAP  
BASHLAND PROPERTY SITE

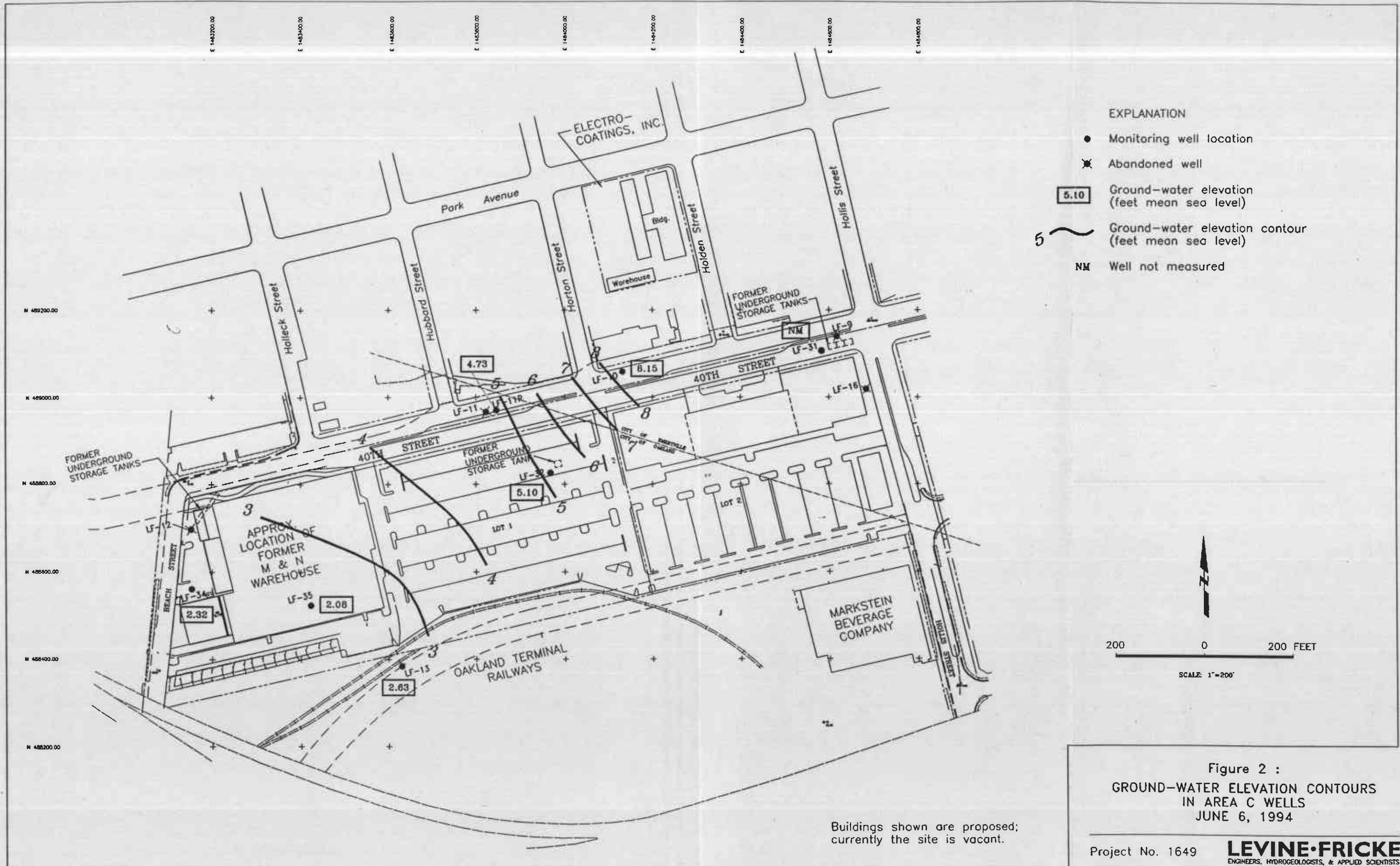


Figure 2 :  
 GROUND-WATER ELEVATION CONTOURS  
 IN AREA C WELLS  
 JUNE 6, 1994

Buildings shown are proposed;  
 currently the site is vacant.

# WATER-QUALITY SAMPLING INFORMATION

Project Name E. RAY BRIDGE Project No. 1649.35

Date 6/21/94 Sample No. LF-31

Samplers Name JCK

Sampling Location LF-31

Sampling Method CENT PUMP / TEFLON BANNER

Analyses Requested TPH, g, o, d + BTEX EPA 8010

Number and Types of Sample Bottles used 4 UOA 2 G G

Method of Shipment Carrier

**GROUND WATER**

**SURFACE WATER**

Well No. LF-31 Stream Width \_\_\_\_\_

Well Diameter (in.) 4 Stream Depth \_\_\_\_\_

Depth to Water, Static (ft) 5.91 Stream Velocity \_\_\_\_\_

Water in Well Box NO Rained recently? \_\_\_\_\_

Well Depth (ft) 20.00 Other \_\_\_\_\_

Height of Water Column in Well 14.09

Water Volume in Well 15.66 9.16

2-inch casing = 0.16 gal/ft

4-inch casing = 0.65 gal/ft

5-inch casing = 1.02 gal/ft

6-inch casing = 1.47 gal/ft

|                  |
|------------------|
| 20.00            |
| 5.91             |
| <u>74.09</u>     |
| .65              |
| <del>11272</del> |
| <del>8454</del>  |
| <del>7045</del>  |
| <u>91585</u>     |
| 14.09            |
| 20.00            |
| <u>.9</u>        |
| <u>11272</u>     |
| <u>8.93</u>      |

LOCATION MAP

| TIME  | DEPTH TO WATER (feet) | VOLUME WITHDRAWN (gallons) | TEMP (deg. C) | pH (S.U.) | COND (mhos/cm) | OTHER |  | REMARKS    |
|-------|-----------------------|----------------------------|---------------|-----------|----------------|-------|--|------------|
|       |                       |                            |               |           |                |       |  |            |
| 15:40 |                       |                            |               |           |                |       |  | START      |
| 15:42 |                       | 10                         | 19.2          | 7.30      | 910            |       |  | CLEAR      |
| 15:45 |                       | 20                         | 19.0          | 7.22      | 901            |       |  | CLEAR      |
| 15:49 |                       | 30                         | 18.4          | 7.08      | 1017           |       |  | CLEAR      |
| 15:50 | DEWATER               | 40                         | 19.2          | 7.05      | 1069           |       |  | SL. TURBID |
| 16:15 | 8.61                  |                            |               |           |                |       |  | SAMPLE     |
|       |                       |                            |               |           |                |       |  |            |
|       |                       |                            |               |           |                |       |  |            |
|       |                       |                            |               |           |                |       |  |            |
|       |                       |                            |               |           |                |       |  |            |
|       |                       |                            |               |           |                |       |  |            |
|       |                       |                            |               |           |                |       |  |            |

Suggested Method for Purging Well \_\_\_\_\_

# American Environmental Network

## Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

LEVINE-FRICKE  
1900 POWELL ST. 12TH FL.  
EMERYVILLE, CA 94608

ATTN: RON GOLOUBOW  
CLIENT PROJ. ID: 1649.35  
CLIENT PROJ. NAME: E. BAYBRIDGE  
C.O.C. NUMBER: 12074

REPORT DATE: 07/12/94  
DATE(S) SAMPLED: 06/21/94  
DATE RECEIVED: 06/22/94  
AEN WORK ORDER: 9406277

### PROJECT SUMMARY:

On June 22, 1994, this laboratory received 7 water sample(s).

Client requested samples be analyzed for organic parameters. On July 6, 1994, client requested additional organic analysis on one (1) sample. Sample identification, methodologies, results and dates analyzed are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

  
Larry Klein  
Laboratory Director



## LEVINE-FRICKE

SAMPLE ID: LF-31  
 AEN LAB NO: 9406277-06  
 AEN WORK ORDER: 9406277  
 CLIENT PROJ. ID: 1649.35

DATE SAMPLED: 06/21/94  
 DATE RECEIVED: 06/22/94  
 REPORT DATE: 07/12/94

| ANALYTE                           | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS      | DATE<br>ANALYZED |
|-----------------------------------|-----------------|--------|--------------------|------------|------------------|
| <b>BTEX &amp; Gasoline HCs</b>    | <b>EPA 8020</b> |        |                    |            |                  |
| Benzene                           | 71-43-2         | ND     | 0.5                | ug/L       | 06/29/94         |
| Toluene                           | 108-88-3        | ND     | 0.5                | ug/L       | 06/29/94         |
| Ethylbenzene                      | 100-41-4        | ND     | 0.5                | ug/L       | 06/29/94         |
| Xylenes, Total                    | 1330-20-7       | ND     | 2                  | ug/L       | 06/29/94         |
| Purgeable HCs as Gasoline         | 5030/GCFID      | ND     | 0.05               | mg/L       | 06/29/94         |
| <b>#Extraction for Diesel/Oil</b> | <b>EPA 3510</b> | -      |                    | Extrn Date | 06/24/94         |
| TPH as Diesel                     | GC-FID          | 0.4 *  | 0.05               | mg/L       | 06/28/94         |
| TPH as Oil                        | GC-FID          | 0.2 *  | 0.2                | mg/L       | 06/28/94         |
| <b>EPA 8010 - Water matrix</b>    | <b>EPA 8010</b> |        |                    |            |                  |
| Bromodichloromethane              | 75-27-4         | ND     | 0.5                | ug/L       | 07/06/94         |
| Bromoform                         | 75-25-2         | ND     | 0.5                | ug/L       | 07/06/94         |
| Bromomethane                      | 74-83-9         | ND     | 0.5                | ug/L       | 07/06/94         |
| Carbon Tetrachloride              | 56-23-5         | ND     | 0.5                | ug/L       | 07/06/94         |
| Chlorobenzene                     | 108-90-7        | ND     | 0.5                | ug/L       | 07/06/94         |
| Chloroethane                      | 75-00-3         | ND     | 0.5                | ug/L       | 07/06/94         |
| 2-Chloroethyl Vinyl Ether         | 110-75-8        | ND     | 0.5                | ug/L       | 07/06/94         |
| Chloroform                        | 67-66-3         | ND     | 0.5                | ug/L       | 07/06/94         |
| Chloromethane                     | 74-87-3         | ND     | 0.5                | ug/L       | 07/06/94         |
| Dibromochloromethane              | 124-48-1        | ND     | 0.5                | ug/L       | 07/06/94         |
| 1,2-Dichlorobenzene               | 95-50-1         | ND     | 0.5                | ug/L       | 07/06/94         |
| 1,3-Dichlorobenzene               | 541-73-1        | ND     | 0.5                | ug/L       | 07/06/94         |
| 1,4-Dichlorobenzene               | 106-46-7        | ND     | 0.5                | ug/L       | 07/06/94         |
| Dichlorodifluoromethane           | 75-71-8         | ND     | 0.5                | ug/L       | 07/06/94         |
| 1,1-Dichloroethane                | 75-34-3         | ND     | 0.5                | ug/L       | 07/06/94         |
| 1,2-Dichloroethane                | 107-06-2        | ND     | 0.5                | ug/L       | 07/06/94         |
| 1,1-Dichloroethene                | 75-35-4         | ND     | 0.5                | ug/L       | 07/06/94         |
| cis-1,2-Dichloroethene            | 156-59-2        | 2 *    | 0.5                | ug/L       | 07/06/94         |
| trans-1,2-Dichloroethene          | 156-60-5        | ND     | 0.5                | ug/L       | 07/06/94         |
| 1,2-Dichloropropane               | 78-87-5         | ND     | 0.5                | ug/L       | 07/06/94         |
| cis-1,3-Dichloropropene           | 10061-01-5      | ND     | 0.5                | ug/L       | 07/06/94         |
| trans-1,3-Dichloropropene         | 10061-02-6      | ND     | 0.5                | ug/L       | 07/06/94         |
| Methylene Chloride                | 75-09-2         | ND     | 0.5                | ug/L       | 07/06/94         |
| 1,1,2,2-Tetrachloroethane         | 79-34-5         | ND     | 0.5                | ug/L       | 07/06/94         |
| Tetrachloroethene                 | 127-18-4        | ND     | 0.5                | ug/L       | 07/06/94         |
| 1,1,1-Trichloroethane             | 71-55-6         | ND     | 0.5                | ug/L       | 07/06/94         |
| 1,1,2-Trichloroethane             | 79-00-5         | ND     | 0.5                | ug/L       | 07/06/94         |
| Trichloroethene                   | 79-01-6         | 5 *    | 0.5                | ug/L       | 07/06/94         |

## LEVINE-FRICKE

SAMPLE ID: LF-31  
AEN LAB NO: 9406277-06  
AEN WORK ORDER: 9406277  
CLIENT PROJ. ID: 1649.35

DATE SAMPLED: 06/21/94  
DATE RECEIVED: 06/22/94  
REPORT DATE: 07/12/94

---

| ANALYTE                       | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|-------------------------------|-----------------|--------|--------------------|-------|------------------|
| Trichlorofluoromethane        | 75-69-4         | ND     | 0.5                | ug/L  | 07/06/94         |
| 1,1,2Trichlorotrifluoroethane | 76-13-1         | ND     | 0.5                | ug/L  | 07/06/94         |
| Vinyl Chloride                | 75-01-4         | ND     | 0.5                | ug/L  | 07/06/94         |

---

ND = Not detected at or above the reporting limit  
\* = Value above reporting limit

LEVINE-FRICKE

SAMPLE ID: TRIP62194  
AEN LAB NO: 9406277-07  
AEN WORK ORDER: 9406277  
CLIENT PROJ. ID: 1649.35

DATE SAMPLED: 06/21/94  
DATE RECEIVED: 06/22/94  
REPORT DATE: 07/12/94

| ANALYTE                   | METHOD/<br>CAS# | RESULT | REPORTING<br>LIMIT | UNITS | DATE<br>ANALYZED |
|---------------------------|-----------------|--------|--------------------|-------|------------------|
| BTEX & Gasoline HCs       | EPA 8020        |        |                    |       |                  |
| Benzene                   | 71-43-2         | ND     | 0.5                | ug/L  | 06/30/94         |
| Toluene                   | 108-88-3        | ND     | 0.5                | ug/L  | 06/30/94         |
| Ethylbenzene              | 100-41-4        | ND     | 0.5                | ug/L  | 06/30/94         |
| Xylenes, Total            | 1330-20-7       | ND     | 2                  | ug/L  | 06/30/94         |
| Purgeable HCs as Gasoline | 5030/GCFID      | ND     | 0.05               | mg/L  | 06/30/94         |

ND = Not detected at or above the reporting limit

\* = Value above reporting limit

AEN (CALIFORNIA)  
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9406277

CLIENT PROJECT ID: 1649.35

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

The following abbreviations are found throughout the QC report:

- ND = Not Detected at or above the reporting limit
- RPD = Relative Percent Difference
- < = Less Than

QUALITY CONTROL DATA

DATE EXTRACTED: 06/24/94

AEN JOB NO: 9406277

CLIENT PROJ. ID: 1649.35

INSTRUMENT: C

SURROGATE STANDARD RECOVERY SUMMARY  
METHOD: EPA 3510 GCFID  
(WATER MATRIX)

| Date Analyzed | SAMPLE IDENTIFICATION |         | SURROGATE RECOVERY (PERCENT) |
|---------------|-----------------------|---------|------------------------------|
|               | Sample Id.            | Lab Id. | n-Pentacosane                |
| 06/28/94      | LF-34                 | 01      | 44                           |
| 06/28/94      | LF-35                 | 02      | 39                           |
| 06/28/94      | LF-32                 | 03      | 42                           |
| 06/28/94      | LF-31                 | 06      | 64                           |

CURRENT QC LIMITS

| <u>ANALYTE</u> | <u>PERCENT RECOVERY</u> |
|----------------|-------------------------|
| n-Pentacosane  | (30-100)                |

QUALITY CONTROL DATA

DATE EXTRACTED: 06/24/94  
 DATE ANALYZED: 06/27/94  
 CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277  
 SAMPLE SPIKED: DI WATER  
 INSTRUMENT: C

METHOD SPIKE RECOVERY SUMMARY  
 TPH EXTRACTABLE WATER  
 METHOD: EPA 3510 GCFID

| ANALYTE | Spike Added (mg/L) | Average Percent Recovery | RPD | QC Limits        |     |
|---------|--------------------|--------------------------|-----|------------------|-----|
|         |                    |                          |     | Percent Recovery | RPD |
| Diesel  | 2.09               | 65                       | 3   | 65-103           | 12  |

METHOD BLANK RESULT

| Lab Id.             | Extractable Hydrocarbons as Diesel (mg/L) | Extractable Hydrocarbons as Oil (mg/L) |
|---------------------|---|--|
| 062494-METHOD BLANK | ND  | ND                                     |
| Reporting Limit     | 0.05                                      | 0.2                                    |

## QUALITY CONTROL DATA

INSTRUMENT: G

AEN JOB NO: 9406277

CLIENT PROJ. ID: 1649.35

AEN LAB NO: 0629-BLANK

DATE ANALYZED: 06/29/94

EPA METHOD 8010 (WATER MATRIX)  
HALOGENATED VOLATILE ORGANICS

| Compound                                  | CAS #      | Concentration<br>(ug/L) | Reporting<br>Limit<br>(ug/L) |
|---|------------|-------------------------|------------------------------|
| Bromodichloromethane                      | 75-27-4    | ND                      | 0.5                          |
| Bromoform                                 | 75-25-2    | ND                      | 0.5                          |
| Bromomethane                              | 74-83-9    | ND                      | 0.5                          |
| Carbon Tetrachloride                      | 56-23-5    | ND                      | 0.5                          |
| Chlorobenzene                             | 108-90-7   | ND                      | 0.5                          |
| Chloroethane                              | 75-00-3    | ND                      | 0.5                          |
| 2-Chloroethyl Vinyl Ether                 | 110-75-8   | ND                      | 0.5                          |
| Chloroform                                | 67-66-3    | ND                      | 0.5                          |
| Chloromethane                             | 74-87-3    | ND                      | 0.5                          |
| Dibromochloromethane                      | 124-48-1   | ND                      | 0.5                          |
| 1,2-Dichlorobenzene                       | 95-50-1    | ND                      | 0.5                          |
| 1,3-Dichlorobenzene                       | 541-73-1   | ND                      | 0.5                          |
| 1,4-Dichlorobenzene                       | 106-46-7   | ND                      | 0.5                          |
| Dichlorodifluoromethane                   | 75-71-8    | ND                      | 0.5                          |
| 1,1-Dichloroethane                        | 75-34-3    | ND                      | 0.5                          |
| 1,2-Dichloroethane                        | 107-06-2   | ND                      | 0.5                          |
| 1,1-Dichloroethene                        | 75-35-4    | ND                      | 0.5                          |
| cis-1,2-Dichloroethene                    | 156-59-2   | ND                      | 0.5                          |
| trans-1,2-Dichloroethene                  | 156-60-5   | ND                      | 0.5                          |
| 1,2-Dichloropropane                       | 78-87-5    | ND                      | 0.5                          |
| cis-1,3-Dichloropropene                   | 10061-01-5 | ND                      | 0.5                          |
| trans-1,3-Dichloropropene                 | 10061-02-6 | ND                      | 0.5                          |
| Methylene Chloride                        | 75-09-2    | ND                      | 0.5                          |
| 1,1,2,2-Tetrachloroethane                 | 79-34-5    | ND                      | 0.5                          |
| Tetrachloroethene                         | 127-18-4   | ND                      | 0.5                          |
| 1,1,1-Trichloroethane                     | 71-55-6    | ND                      | 0.5                          |
| 1,1,2-Trichloroethane                     | 79-00-5    | ND                      | 0.5                          |
| Trichloroethene                           | 79-01-6    | ND                      | 0.5                          |
| Trichlorofluoromethane                    | 75-69-4    | ND                      | 0.5                          |
| 1,1,2-Trichloro-<br>1,2,2-trifluoroethane | 76-13-1    | ND                      | 0.5                          |
| Vinyl Chloride                            | 75-01-4    | ND                      | 0.5                          |

## QUALITY CONTROL DATA

INSTRUMENT: G

AEN JOB NO: 9406277

CLIENT PROJ. ID: 1649.35

AEN LAB NO: 0630-BLANK

DATE ANALYZED: 06/30/94

EPA METHOD 8010 (WATER MATRIX)  
HALOGENATED VOLATILE ORGANICS

| Compound                                  | CAS #      | Concentration<br>(ug/L) | Reporting<br>Limit<br>(ug/L) |
|---|------------|-------------------------|------------------------------|
| Bromodichloromethane                      | 75-27-4    | ND                      | 0.5                          |
| Bromoform                                 | 75-25-2    | ND                      | 0.5                          |
| Bromomethane                              | 74-83-9    | ND                      | 0.5                          |
| Carbon Tetrachloride                      | 56-23-5    | ND                      | 0.5                          |
| Chlorobenzene                             | 108-90-7   | ND                      | 0.5                          |
| Chloroethane                              | 75-00-3    | ND                      | 0.5                          |
| 2-Chloroethyl Vinyl Ether                 | 110-75-8   | ND                      | 0.5                          |
| Chloroform                                | 67-66-3    | ND                      | 0.5                          |
| Chloromethane                             | 74-87-3    | ND                      | 0.5                          |
| Dibromochloromethane                      | 124-48-1   | ND                      | 0.5                          |
| 1,2-Dichlorobenzene                       | 95-50-1    | ND                      | 0.5                          |
| 1,3-Dichlorobenzene                       | 541-73-1   | ND                      | 0.5                          |
| 1,4-Dichlorobenzene                       | 106-46-7   | ND                      | 0.5                          |
| Dichlorodifluoromethane                   | 75-71-8    | ND                      | 0.5                          |
| 1,1-Dichloroethane                        | 75-34-3    | ND                      | 0.5                          |
| 1,2-Dichloroethane                        | 107-06-2   | ND                      | 0.5                          |
| 1,1-Dichloroethene                        | 75-35-4    | ND                      | 0.5                          |
| cis-1,2-Dichloroethene                    | 156-59-2   | ND                      | 0.5                          |
| trans-1,2-Dichloroethene                  | 156-60-5   | ND                      | 0.5                          |
| 1,2-Dichloropropane                       | 78-87-5    | ND                      | 0.5                          |
| cis-1,3-Dichloropropene                   | 10061-01-5 | ND                      | 0.5                          |
| trans-1,3-Dichloropropene                 | 10061-02-6 | ND                      | 0.5                          |
| Methylene Chloride                        | 75-09-2    | ND                      | 0.5                          |
| 1,1,2,2-Tetrachloroethane                 | 79-34-5    | ND                      | 0.5                          |
| Tetrachloroethene                         | 127-18-4   | ND                      | 0.5                          |
| 1,1,1-Trichloroethane                     | 71-55-6    | ND                      | 0.5                          |
| 1,1,2-Trichloroethane                     | 79-00-5    | ND                      | 0.5                          |
| Trichloroethene                           | 79-01-6    | ND                      | 0.5                          |
| Trichlorofluoromethane                    | 75-69-4    | ND                      | 0.5                          |
| 1,1,2-Trichloro-<br>1,2,2-trifluoroethane | 76-13-1    | ND                      | 0.5                          |
| Vinyl Chloride                            | 75-01-4    | ND                      | 0.5                          |



## QUALITY CONTROL DATA

INSTRUMENT: G

AEN JOB NO: 9406277

CLIENT PROJ. ID: 1649.35

AEN LAB NO: 0706-BLANK

DATE ANALYZED: 07/06/94

EPA METHOD 8010 (WATER MATRIX)  
HALOGENATED VOLATILE ORGANICS

| Compound                                  | CAS #      | Concentration<br>(ug/L) | Reporting<br>Limit<br>(ug/L) |
|---|------------|-------------------------|------------------------------|
| Bromodichloromethane                      | 75-27-4    | ND                      | 0.5                          |
| Bromoform                                 | 75-25-2    | ND                      | 0.5                          |
| Bromomethane                              | 74-83-9    | ND                      | 0.5                          |
| Carbon Tetrachloride                      | 56-23-5    | ND                      | 0.5                          |
| Chlorobenzene                             | 108-90-7   | ND                      | 0.5                          |
| Chloroethane                              | 75-00-3    | ND                      | 0.5                          |
| 2-Chloroethyl Vinyl Ether                 | 110-75-8   | ND                      | 0.5                          |
| Chloroform                                | 67-66-3    | ND                      | 0.5                          |
| Chloromethane                             | 74-87-3    | ND                      | 0.5                          |
| Dibromochloromethane                      | 124-48-1   | ND                      | 0.5                          |
| 1,2-Dichlorobenzene                       | 95-50-1    | ND                      | 0.5                          |
| 1,3-Dichlorobenzene                       | 541-73-1   | ND                      | 0.5                          |
| 1,4-Dichlorobenzene                       | 106-46-7   | ND                      | 0.5                          |
| Dichlorodifluoromethane                   | 75-71-8    | ND                      | 0.5                          |
| 1,1-Dichloroethane                        | 75-34-3    | ND                      | 0.5                          |
| 1,2-Dichloroethane                        | 107-06-2   | ND                      | 0.5                          |
| 1,1-Dichloroethene                        | 75-35-4    | ND                      | 0.5                          |
| cis-1,2-Dichloroethene                    | 156-59-2   | ND                      | 0.5                          |
| trans-1,2-Dichloroethene                  | 156-60-5   | ND                      | 0.5                          |
| 1,2-Dichloropropane                       | 78-87-5    | ND                      | 0.5                          |
| cis-1,3-Dichloropropene                   | 10061-01-5 | ND                      | 0.5                          |
| trans-1,3-Dichloropropene                 | 10061-02-6 | ND                      | 0.5                          |
| Methylene Chloride                        | 75-09-2    | ND                      | 0.5                          |
| 1,1,2,2-Tetrachloroethane                 | 79-34-5    | ND                      | 0.5                          |
| Tetrachloroethene                         | 127-18-4   | ND                      | 0.5                          |
| 1,1,1-Trichloroethane                     | 71-55-6    | ND                      | 0.5                          |
| 1,1,2-Trichloroethane                     | 79-00-5    | ND                      | 0.5                          |
| Trichloroethene                           | 79-01-6    | ND                      | 0.5                          |
| Trichlorofluoromethane                    | 75-69-4    | ND                      | 0.5                          |
| 1,1,2-Trichloro-<br>1,2,2-trifluoroethane | 76-13-1    | ND                      | 0.5                          |
| Vinyl Chloride                            | 75-01-4    | ND                      | 0.5                          |

QUALITY CONTROL DATA

INSTRUMENT: G

AEN JOB NO: 9406277

CLIENT PROJ. ID: 1649.35

SURROGATE STANDARD RECOVERY SUMMARY  
 METHOD: EPA 8010  
 (WATER MATRIX)

| Date Analyzed | SAMPLE IDENTIFICATION |         | SURROGATE RECOVERY (PERCENT) |                          |
|---------------|-----------------------|---------|------------------------------|--------------------------|
|               | Sample Id.            | Lab Id. | Bromochloro-methane          | 1-Bromo-3-chloro-propane |
| 06/30/94      | LF-34                 | 01      | 108                          | 105                      |
| 06/29/94      | LF-35                 | 02      | 150                          | 129                      |
| 06/29/94      | LF-11R                | 04      | 143                          | 122                      |
| 06/30/94      | LF-10                 | 05      | 121                          | 115                      |
| 07/06/94      | LF-31                 | 06      | 123                          | 111                      |

CURRENT QC LIMITS

| <u>ANALYTE</u>          | <u>PERCENT RECOVERY</u> |
|-------------------------|-------------------------|
| Bromochloromethane      | (78-153)                |
| 1-Bromo-3-chloropropane | (74-143)                |

QUALITY CONTROL DATA

DATE ANALYZED: 06/29/94  
 SAMPLE SPIKED: LCS  
 CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277  
 INSTRUMENT: G

LABORATORY CONTROL SAMPLE  
 METHOD: EPA 8010  
 (WATER MATRIX)

| ANALYTE            | Spike Added (ug/L) | Percent Recovery |
|--------------------|--------------------|------------------|
| 1,1-Dichloroethene | 50.0               | 65               |
| Trichloroethene    | 50.0               | 88               |
| Chlorobenzene      | 50.0               | 70               |

CURRENT QC LIMITS

| Analyte            | Percent Recovery |
|--------------------|------------------|
| 1,1-Dichloroethene | (37-156)         |
| Trichloroethene    | (54-122)         |
| Chlorobenzene      | (54-141)         |

QUALITY CONTROL DATA

DATE ANALYZED: 07/05/94  
 SAMPLE SPIKED: 9406373-01  
 CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277

INSTRUMENT: G

MATRIX SPIKE RECOVERY SUMMARY  
 METHOD: EPA 8010  
 (WATER MATRIX)

| ANALYTE            | Spike Added (ug/L) | Average Percent Recovery | RPD |
|--------------------|--------------------|--------------------------|-----|
| 1,1-Dichloroethene | 50.0               | 79                       | 8   |
| Trichloroethene    | 50.0               | 90                       | 13  |
| Chlorobenzene      | 50.0               | 79                       | 2   |

CURRENT QC LIMITS

| Analyte            | Percent Recovery | RPD |
|--------------------|------------------|-----|
| 1,1-Dichloroethene | (40-130)         | 18  |
| Trichloroethene    | (67-136)         | 17  |
| Chlorobenzene      | (59-123)         | 15  |

## QUALITY CONTROL DATA

INSTRUMENT: F  
CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277  
AEN LAB NO: 0629-BLANK  
DATE ANALYZED: 06/29/94

BTEX AND HYDROCARBONS  
METHOD: EPA 8020, 5030 GCFID  
(WATER MATRIX)

|                            | CAS #     | CONCENTRATION<br>(ug/L) | REPORTING<br>LIMIT<br>(ug/L) |
|----------------------------|-----------|-------------------------|------------------------------|
| Benzene                    | 71-43-2   | ND                      | 0.5                          |
| Toluene                    | 108-88-3  | ND                      | 0.5                          |
| Ethylbenzene               | 100-41-4  | ND                      | 0.5                          |
| Xylenes, Total             | 1330-20-7 | ND                      | 2                            |
| PURGEABLE HYDROCARBONS AS: |           |                         |                              |
| Gasoline                   |           | ND mg/L                 | 0.05 mg/L                    |

QUALITY CONTROL DATA

INSTRUMENT: F  
 CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277  
 AEN LAB NO: 0630-BLANK  
 DATE ANALYZED: 06/30/94

BTEX AND HYDROCARBONS  
 METHOD: EPA 8020, 5030 GCFID  
 (WATER MATRIX)

|                            | CAS #     | CONCENTRATION<br>(ug/L) | REPORTING<br>LIMIT<br>(ug/L) |
|----------------------------|-----------|-------------------------|------------------------------|
| Benzene                    | 71-43-2   | ND                      | 0.5                          |
| Toluene                    | 108-88-3  | ND                      | 0.5                          |
| Ethylbenzene               | 100-41-4  | ND                      | 0.5                          |
| Xylenes, Total             | 1330-20-7 | ND                      | 2                            |
| PURGEABLE HYDROCARBONS AS: |           |                         |                              |
| Gasoline                   |           | ND mg/L                 | 0.05 mg/L                    |

QUALITY CONTROL DATA

CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277

INSTRUMENT: F

SURROGATE STANDARD RECOVERY SUMMARY  
METHOD: EPA 8020, 5030 GCFID  
(WATER MATRIX)

| Date Analyzed | SAMPLE IDENTIFICATION |         | SURROGATE RECOVERY (PERCENT) |
|---------------|-----------------------|---------|------------------------------|
|               | Sample Id.            | Lab Id. | Fluorobenzene                |
| 06/29/94      | LF-34                 | 01      | 102                          |
| 06/29/94      | LF-35                 | 02      | 100                          |
| 06/29/94      | LF-32                 | 03      | 101                          |
| 06/29/94      | LF-31                 | 06      | 102                          |
| 06/30/94      | TRIP62194             | 07      | 112                          |

CURRENT QC LIMITS

| <u>ANALYTE</u> | <u>PERCENT RECOVERY</u> |
|----------------|-------------------------|
| Fluorobenzene  | (70-115)                |

QUALITY CONTROL DATA

DATE ANALYZED: 06/28/94  
SAMPLE SPIKED: LCS  
CLIENT PROJ. ID: 1649.35

AEN JOB NO: 9406277

INSTRUMENT: F

LABORATORY CONTROL SAMPLE  
METHOD: EPA 8020, 5030 GCFID  
(WATER MATRIX)

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| ANALYTE                  | Spike Added (ug/L) | Percent Recovery |
|--------------------------|--------------------|------------------|
| Benzene                  | 10.6               | 104              |
| Toluene                  | 40.2               | 96               |
| Hydrocarbons as Gasoline | 500                | 103              |

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CURRENT QC LIMITS

| <u>Analyte</u> | <u>Percent Recovery</u> |
|----------------|-------------------------|
| Benzene        | (65-122)                |
| Toluene        | (67-124)                |
| Gasoline       | (60-125)                |

\*\*\* END OF REPORT \*\*\*



# CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9406277

|                             |                    |                      |             |
|-----------------------------|--------------------|----------------------|-------------|
| Project No.: <b>1649.35</b> | Field Logbook No.: | Date: <b>6/21/94</b> | Serial No.: |
|-----------------------------|--------------------|----------------------|-------------|

|                                   |  |                  |
|-----------------------------------|--|------------------|
| Project Name: <b>E. BAYBRIDGE</b> | Project Location: <b>EMERYVILLE, CA.</b> | No: <b>12074</b> |
|-----------------------------------|--|------------------|

Sampler (Signature): J.C.K. ANALYSES Samplers: **JCK**

| SAMPLES    |         |       |                |                    |             | ANALYSES |      |       |       |       |          |           | REMARKS |                          |
|------------|---------|-------|----------------|--------------------|-------------|----------|------|-------|-------|-------|----------|-----------|---------|--------------------------|
| SAMPLE NO. | DATE    | TIME  | LAB SAMPLE NO. | NO. OF CON-TAINERS | SAMPLE TYPE | EPA 601  | BTEX | TPH-G | TPH-D | TPH-O | EPA 8010 | 8010 HOLD |         | RUSH                     |
| LF-34      | 6/21/94 | 11:20 | 01A-F          | 26                 |             | X        | X    | X     | X     | X     |          |           |         | STANDARD TAT             |
| LF-35      |         | 12:15 | 02A-F          | 26                 |             | X        | X    | X     | X     | X     |          |           |         |                          |
| LF-32      |         | 12:55 | 03A-D          | 4                  |             | X        | X    | X     | X     | X     |          |           |         | RESULTS TO               |
| LF-11R     |         | 14:05 | 04AB           | 2                  |             |          |      |       |       | X     |          |           |         | RON GOLOUBOW             |
| LF-10      |         | 15:15 | 05AB           | 2                  |             |          |      |       |       | X     |          |           |         |                          |
| LF-31      |         | 16:15 | 06A-F          | 26                 |             | X        | X    | X     | X     | X     |          |           |         | TPH-d 3550 3550 GC FID   |
| TKIP62194  |         | 09:00 | 07AB           | 2                  |             | X        | X    |       |       |       |          |           |         | " 0 3550 3550 GC FID     |
|            |         |       |                |                    |             |          |      |       |       |       |          |           |         | 9 3550 5030 GC FID       |
|            |         |       |                |                    |             |          |      |       |       |       |          |           |         | BTEX 8020                |
|            |         |       |                |                    |             |          |      |       |       |       |          |           |         | NOTE: BILLING DIRECT TO  |
|            |         |       |                |                    |             |          |      |       |       |       |          |           |         | CATELLUS ATT: KIM BRANDT |
|            |         |       |                |                    |             |          |      |       |       |       |          |           |         | 7-6-94 Run LF-31 for     |
|            |         |       |                |                    |             |          |      |       |       |       |          |           |         | 8010 per Ron Goloubow    |
|            |         |       |                |                    |             |          |      |       |       |       |          |           |         | 48 hr TAT                |

|  |         |      |  |         |      |
|--|---------|------|--|---------|------|
| RELINQUISHED BY: (Signature) <u>J.C.K.</u>             | DATE    | TIME | RECEIVED BY: (Signature) <u>Michael J. McVulla</u> | DATE    | TIME |
| RELINQUISHED BY: (Signature) <u>Michael J. McVulla</u> | 6/22/94 | 9:15 | RECEIVED BY: (Signature) <u>Ayina Gillespie</u>    | 6/22/94 | 9:15 |
| RELINQUISHED BY: (Signature)                           | DATE    | TIME | RECEIVED BY: (Signature)                           | DATE    | TIME |
| METHOD OF SHIPMENT:                                    | DATE    | TIME | LAB COMMENTS:                                      | DATE    | TIME |

|  |  |
|--|--|
| Sample Collector: <b>LEVINE-FRICKE</b><br>1900 Powell Street, 12th Floor<br>Emeryville, California 94608<br>(510) 652-4500 | Analytical Laboratory: <b>AEN</b><br><b>PLEASANT HILL, CA.</b> |
|--|--|