**Weiss Associates**

*Environmental Science, Engineering and Management*

*5801 Christie Avenue, Suite 600, Emeryville, CA 94608-1827* *FAX: 510-547-5043 Phone: **510-450-6000***



# TRANSMITTAL

| | | | |
|---|---|---|---|
| **TO:** | Barney Chan | **DATE:** | January 21, 2000 |
| **COMPANY:** | Alameda County Health Care Services Agency | **PROJECT #:** | 138-1231 |
| **FROM:** | Melissa Chamberlain, 510-450-6124 | **PHONE:**<br>**FAX:** | 510-567-6765<br>510-595-3392 |

**ENCLOSED PLEASE FIND:** 4th Quarter Sampling Report

#5552

| **VIA:** | **FAX:** | **AS:** | **FOR:** |
|---|---|---|---|
| ☐ Fax | # of pages: _____ (including this cover) | ☐ Per our phone call | ☑ Your information |
| ☑ 1st Class Mail | ☐ Hard Copy to follow | ☐ You requested | ☐ Return to you |
| ☐ Overnight Delivery | | ☑ Is required | ☐ Your action |
| ☐ UPS (Surface) | | ☐ We believe you may be interested | ☐ Your review & comments |
| ☐ Courier | | | |

**COMMENTS:**

Barney:

Enclosed please find the 4th Quarter Sampling Report for 489 43rd Street. Please contact me at 510-450-6124 with any questions.

Thanks,

Melissa Chamberlain

**Weiss Associates** *Environmental and Geologic Services*

*5801 Christie Avenue, Suite 600, Emeryville, CA 94608-1827* *Fax: 510-547-5043* ***Phone: 510-450-6000***

January 21, 2000

Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502

RE: **Fourth Quarter 1999**
Bucate Plata
489 43rd Street
Oakland, California
WA Job #138-1231-2

Dear Mr. Chan:

This status report satisfies the quarterly reporting requirements described in California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d for the above referenced site. A site background, a summary of activities performed in the fourth quarter 1999, and proposed activities for the first quarter 2000, are presented below.

At the request of the Alameda County Health Care Services Agency (ACHCSA) the ground water monitoring was done in conjunction with the monitoring for the site located upgradient and across the street.

## SITE BACKGROUND

### *Location*

The subject property is located at 489 43rd Street in Oakland, California (Figure 1). The subject site consists of a commercial building occupying a corner lot (Figure 2). The building is adjacent to the sidewalk on 43rd Street and has a frontage on Telegraph Avenue.

### *Hydrogeology*

The subsurface consists of sandy silt and silty sand to 5 ft bgs, silty clay to 10 ft bgs, and gravelly sand 10 ft bgs to 15 ft bgs. A range of clayey silt to sandy silt exists from 15 ft bgs to a depth of 20.2 ft bgs. Based on ground water depth data collected in December 1999, the shallow ground water was generally flowing to the south-southwest as had been reported in previous years.

### *Adjacent Petroleum Hydrocarbon Sources*

There is a reported release from the former USTs located at 490 43rd Street, across the street and upgradient of the subject site. The 490 43rd Street USTs reportedly contained gasoline and paint thinner. Three ground water monitoring wells were installed at the 490 43rd Street site in 1993. Total Petroleum

Hydrocarbons as Gasoline (TPH-G), Total Petroleum Hydrocarbons as Paint Thinner (TPH-PT), and BTEX have been detected in ground water samples from all three wells. A fourth well was requested by ACHCSA, so MW-4 was installed on July 23, 1999. Figure 2 shows the arrangement of the subject site and the site across the street.

*Extent of Subsurface Hydrocarbons*

A former underground storage tank (UST) was located under the north sidewalk of 489 43rd Street, about 90 feet east of the intersection of 43rd Street and Telegraph Avenue in Oakland. The UST was removed by Accutite Environmental Engineering in September 1995. Laboratory analysis of soil samples collected from beneath the UST detected maximum concentrations of 1,900 parts per million (ppm) TPH-G, 1,300 ppm Total Petroleum Hydrocarbons as Diesel (TPH-D), 0.2 ppm benzene, 0.46 ppm toluene, 17 ppm ethylbenzene, 48 ppm total xylenes, and 1,300 ppm methyl tertiary-butyl ether (MTBE).

On May 29, 1998, WA drilled one borehole (SB-01) on the down-gradient side of the subject site's former UST location and advanced the borehole to a total depth of 12 feet below ground surface (bgs). The soil sample was reported to have no concentrations of contaminants of concern above the laboratory-reporting limit. The ground water sample was reported to have a TPH-G concentration of 18,000 parts per billion (ppb), a benzene concentration of 2,400 ppb, a TPH-PT concentration of 8,800 ppb, and an MTBE concentration of <350 ppb. The laboratory indicated that the TPH-G and TPH-PT results included a large fraction of an unmodified or weakly modified gasoline. Due to the interference from the TPH-G concentration, the laboratory had to raise the MTBE reporting limit to 350 ppb.

A monitoring well was installed on October 29, 1999 and was developed on November 2, 1999 using surge block agitation and bailer excavation. The soil sample collected during well installation reported non-detect for all contaminants of concern. The ground water sample collected during well development reported the following contaminant levels: 380 µg/L TPH-G, 0.77 µg/L benzene, 3.5 µg/L toluene, 2.1 µg/L ethyl benzene, 1.6 µg/L xylenes and 240 µg/L paint thinner. Results of the ground water sampling after the well development are in Table 1. TPH-D, MTBE and lead were non-detect for the ground water sample. The paint thinner is believed to be a result of past activities involving a paint thinner tank located at the site across the street. BTEX results were below California Department of Health Services maximum contamination levels for ground water.

## FOURTH QUARTER 1999 ACTIVITIES

- WA coordinated with ACC Environmental to conduct ground water monitoring for the site across the street at the same time we collected samples and monitored at the subject site.
- On December 20, 1999, WA measured ground water depth and collected ground water samples from the Site monitoring well. The samples were submitted to a state-certified analytical laboratory. The sample collection records are included as Attachment A, and the certified analytic report and chain-of-custody form are included as Attachment B.
- WA calculated ground water elevations, compiled analytic data (Table 2) and contoured ground water elevations (Figure 2).

## PLANNED FIRST QUARTER 2000 ACTIVITIES

- WA will collect a water level measurement and water samples from the well in conjunction with the site across the street.
- WA will submit a report detailing activities conducted during the quarter.

Please call if you have any questions or comments.

Sincerely,
Weiss Associates

Melissa Chamberlain
Senior Staff Engineer

Attachments: Figures
Tables
Attachment A: Water Sample Collection Forms
Attachment B: Laboratory Reports and Chain-of-Custody Forms

cc: Ronn Simpson, P.O. Box 3090, Berkeley, CA 94703

MJC:mjc
F:\CLIENTS\BUCATE\reports\99q4r1.doc

# FIGURES


Figure 1 Site Location - 489 43rd Street, Oakland, California

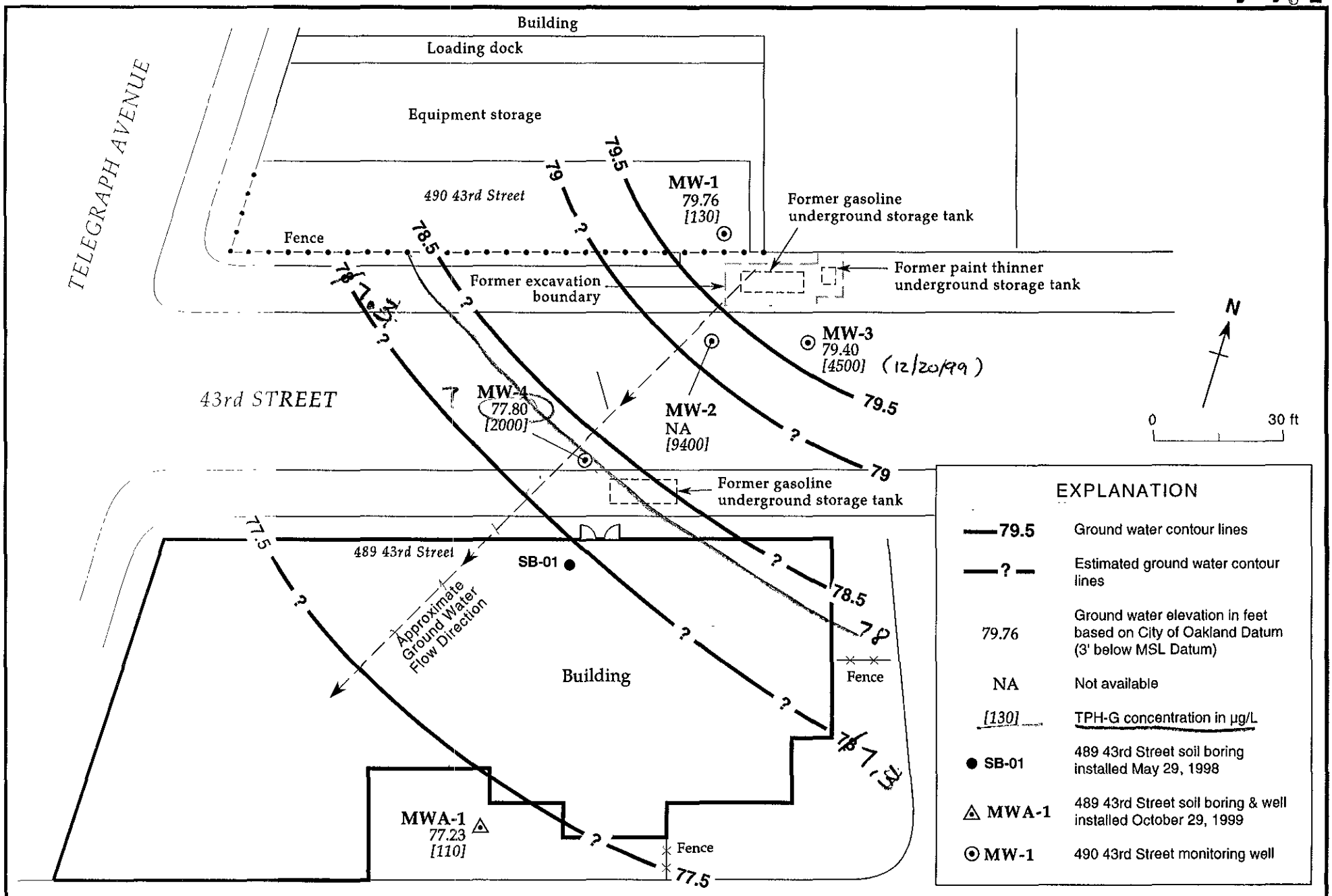


Figure 2 Quarterly Sampling Data, December 20, 1999 - 489 43rd Street, Oakland, California

bucat-07.ai

01/21/00

# TABLES

*Table 1 Ground Water Sampling and Analyses*
*Quarterly Well Sampling on December 20, 1999, 489 43rd Street, Bucate Plata*

| Sample ID | Date | Matrix Sampled | TPH-D | TPH-G | Benzene | Toluene | Ethyl benzene | Xylenes | MTBE | Lead | Paint Thinner |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MWA-1 | 12/20/99 | Water | 57 | 110 | ND | 0.79 | ND | ND | ND | ND | ND |
| Detection Limit | 12/20/99 | Water | 51 | 50 | 0.50 | 0.50 | 0.50 | 0.50 | 5.0 | 0.0050 mg/L | 50 |
| Maximum Concentration Level (set by the California Dept of Health Services) | | | Not available | Not available | 1 µg/L | 150 µg/L | 700 µg/L | 1750 µg/L | Not available | 15 µg/L | Not available |

Legend

All results are expressed in µg/L unless otherwise noted
ND = at or below laboratory detection limit.
TPH-D = total petroleum hydrocarbons as diesel
TPH-G = total petroleum hydrocarbons as gasoline

# ATTACHMENT A

WATER SAMPLE COLLECTION FORMS

# WATER SAMPLING DATA

Weiss Associates

Job Name: Bucat-e Plate Job #: 138-1231-2 Sample ID #: MWA-1 Well Name: MWA-1

Sampled By Gary C. Date: 12/[illegible]/99

| | | | | | | |
|---|---|---|---|---|---|---|
| SAMPLE TYPE | ☒ Original | ☐ Duplicate | ☐ Trip Blank | ☐ Equip. Blank | ☐ Other: | |
| WEATHER | ☒ Sunny | ☐ Cloudy | ☐ Rainy | ☐ Overcast | ☐ Windy | Temperature: |
| WELL TYPE | ☒ Monitoring | ☐ Extraction | ☐ Pieziometer | ☐ Other: | | |

| WELL MEASUREMENTS | | Measurements |
|---|---|---|
| Depth to Water | DTW | 12-04 Ft. |
| Depth to Product | DTP | N/A Ft. |
| Product Thickness | PT | N/A Ft. |
| Specified Well Depth | SWD | N/A Ft. |
| Measured Well Depth | MWD | 20-08 Ft. |
| Well Diameter | D | 2" In. |

| Well Conditions |
|---|
| *casing, plugs, seal, vault* |
| OK ☒ |
| Comments: |
| |
| |
| |

Formulas/Conversions
r = well radius in ft.
h = ht of water col in ft.
vol. in cyl. - $\pi r^2 h$
7.48 gal/ft$^3$
$V_{2"}$ casing = 0.163 gal/ft
$V_{3"}$ casing = 0.367 gal/ft
$V_{4"}$ casing = 0.653 gal/ft
$V_{4.5"}$ casing = 0.826 gal/ft
$V_{6"}$ casing = 1.47 gal/ft
$V_{8"}$ casing = 2.61 gal/ft

| EVACUATION CALCULATIONS | Formula | Value | |
|---|---|---|---|
| Standing Water Height | SWH=MWD - DTW | 8-04 ft. | |
| Well Casing Volume | WCV=SWH* $V_D$ | 1.31 gal. | |
| Well Casings Volumes to be Evacuated | N | X3 | |
| Total to be Evacuated: | =WCV * N | 3.93 gal | Actual gal. Evacuated: |

| Evacuation Equipment/Decontamination | |
|---|---|
| Dedicated ☐ Yes ☒ No | Equipment: Disposable Bailer |
| ☐ Steam ☐ Alconox ☐ DI Water ☐ Other | N/A |

| MEASUREMENTS | | | | | |
|---|---|---|---|---|---|
| Volume Purged | Time | Temp. °C | Ec SC/Φmhos | pH | Other |
| 1 | 858 | 66.9 | 0.62 X1000 | 7.5 | Brown |
| 3 | 903 | 64.6 | 0.54 X1000 | 7.3 | Lt. Brown |
| 4 | 908 | 63.6 | 0.48 X1000 | 7.2 | Lt-Brown |
| | | | | | |
| Time/Start Totalizer: | | | Time/End Totalizer: | | |

| WELL RECOVERY |
|---|
| DTW @ Sample 14.68 |
| MWD – 80%HWC = 80%DTW |
| Evacuated Dry ☐ Yes ☒ No |

| SAMLPE DESCRIPTION |
|---|
| Color: Brown |
| Odor: N/D |
| Solids: N/D |

| CALIBRATION | | | | SAMPLE TIME/METHOD |
|---|---|---|---|---|
| Meter Type | Manufacturer | ID Number | Calibration Performed | Time: 917 / 920 |
| pH | Sibat | | ☐ 4 ☒ 7 ☒ 10 | Dedicated ☐ Yes ☒ No |
| Conductivit | Hydac | | | Equipment: Disposable Bailer |
| Other: | | | | Comments on Back ☐ |

# ATTACHMENT B

## LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORMS

(Note: The Chain-of-Custody form was mistakenly dated 12/18/99.
The samples were collected on 12/20/99. All dates of
12/18/99 in the lab report are actually 12/20/99.)

**Weiss Associates**
5500 Shellmound Street
Emeryville, CA 94608

Attn.: Ms. Melissa Chamberlain

Dear Ms. Chamberlain,

Attached is our report for your samples received on Tuesday December 21, 1999
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after January 20, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: asalimpour@chromalab.com

Sincerely,

Afsaneh Salimpour

Gas/BTEX and MTBE


**Weiss Associates**

5500 Shellmound Street
Emeryville, CA 94608

Attn: Melissa Chamberlain

Phone: (510) 450-6000 Fax: (510) 547-5043

Project #: 138-1231-2

Project:


**Samples Reported**

| Sample ID | Matrix | Date Sampled | Lab # |
|---|---|---|---|
| MWA-1 | Water | 12/18/1999 | 1 |

# CHROMALAB, INC.

Environmental Services (SDB)

**Submission #: 1999-12-0361**

To: **Weiss Associates**

Attn.: Melissa Chamberlain

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

| | | | |
|---|---|---|---|
| Sample ID: | **MWA-1** | Lab Sample ID: | **1999-12-0361-001** |
| Project: | 138-1231-2 | Received: | 12/21/1999 15:14 |
| | | Extracted: | 12/29/1999 18:41 |
| Sampled: | 12/18/1999 | QC-Batch: | 1999/12/29-01.04 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Gasoline | 110 | 50 | ug/L | 1.00 | 12/29/1999 18:41 | g |
| Benzene | ND | 0.50 | ug/L | 1.00 | 12/29/1999 18:41 | |
| Toluene | 0.79 | 0.50 | ug/L | 1.00 | 12/29/1999 18:41 | |
| Ethyl benzene | ND | 0.50 | ug/L | 1.00 | 12/29/1999 18:41 | |
| Xylene(s) | ND | 0.50 | ug/L | 1.00 | 12/29/1999 18:41 | |
| MTBE | ND | 5.0 | ug/L | 1.00 | 12/29/1999 18:41 | |
| ***Surrogate(s)*** | | | | | | |
| Trifluorotoluene | 85.2 | 58-124 | % | 1.00 | 12/29/1999 18:41 | |
| 4-Bromofluorobenzene-FID | 84.0 | 50-150 | % | 1.00 | 12/29/1999 18:41 | |

To: **Weiss Associates**

Attn.: Melissa Chamberlain

Test Method: 8020
8015M

Prep Method: 5030

**Batch QC Report**

Gas/BTEX and MTBE

**Method Blank** **Water** **QC Batch # 1999/12/29-01.04**

MB: 1999/12/29-01.04-001 Date Extracted: 12/29/1999 13:14

| Compound | Result | Rep.Limit | Units | Analyzed | Flag |
|---|---|---|---|---|---|
| Gasoline | ND | 50 | ug/L | 12/29/1999 13:14 | |
| Benzene | ND | 0.5 | ug/L | 12/29/1999 13:14 | |
| Toluene | ND | 0.5 | ug/L | 12/29/1999 13:14 | |
| Ethyl benzene | ND | 0.5 | ug/L | 12/29/1999 13:14 | |
| Xylene(s) | ND | 0.5 | ug/L | 12/29/1999 13:14 | |
| MTBE | ND | 5.0 | ug/L | 12/29/1999 13:14 | |
| ***Surrogate(s)*** | | | | | |
| Trifluorotoluene | 92.6 | 58-124 | % | 12/29/1999 13:14 | |
| 4-Bromofluorobenzene-FID | 81.4 | 50-150 | % | 12/29/1999 13:14 | |

# CHROMALAB, INC.

Environmental Services (SDB)

**Submission #: 1999-12-0361**

To: **Weiss Associates**

Attn: Melissa Chamberlain

Test Method: 8020
8015M

Prep Method: 5030

**Batch QC Report**

Gas/BTEX and MTBE

**Laboratory Control Spike (LCS/LCSD)** **Water** **QC Batch # 1999/12/29-01.04**

LCS: 1999/12/29-01.04-002 Extracted: 12/29/1999 13:42 Analyzed: 12/29/1999 13:42

LCSD: 1999/12/29-01.04-003 Extracted: 12/29/1999 14:09 Analyzed: 12/29/1999 14:09

| Compound | Conc. [ ug/L ] | | Exp.Conc. [ ug/L ] | | Recovery [%] | | RPD | Ctrl. Limits [%] | | Flags | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LCS | LCSD | LCS | LCSD | LCS | LCSD | [%] | Recovery | RPD | LCS | LCSD |
| Gasoline | 559 | 566 | 500 | 500 | 111.8 | 113.2 | 1.2 | 75-125 | 20 | | |
| Benzene | 95.5 | 83.4 | 100.0 | 100.0 | 95.5 | 83.4 | 13.5 | 77-123 | 20 | | |
| Toluene | 94.6 | 83.1 | 100.0 | 100.0 | 94.6 | 83.1 | 12.9 | 78-122 | 20 | | |
| Ethyl benzene | 89.3 | 78.5 | 100.0 | 100.0 | 89.3 | 78.5 | 12.9 | 70-130 | 20 | | |
| Xylene(s) | 270 | 238 | 300 | 300 | 90.0 | 79.3 | 12.6 | 75-125 | 20 | | |
| ***Surrogate(s)*** | | | | | | | | | | | |
| Trifluorotoluene | 437 | 390 | 500 | 500 | 87.4 | 78.0 | | 58-124 | | | |
| 4-Bromofluorobenzene-FI | 425 | 432 | 500 | 500 | 85.0 | 86.4 | | 50-150 | | | |

To: **Weiss Associates**

Attn:Melissa Chamberlain

Test Method: 8020
8015M

Prep Method: 5030

## Legend & Notes

Gas/BTEX and MTBE

**Analyte Flags**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Soluble Metals


**Weiss Associates**

5500 Shellmound Street
Emeryville, CA 94608

Attn: Melissa Chamberlain

Phone: (510) 450-6000 Fax: (510) 547-5043

Project #: 138-1231-2

Project:


**Samples Reported**

| Sample ID | Matrix | Date Sampled | Lab # |
|---|---|---|---|
| MWA-1 | Water | 12/18/1999 | 1 |

To: **Weiss Associates**
Attn.: Melissa Chamberlain

Test Method: 6010B
Prep Method: 3005A

Soluble Metals

| | | | |
|---|---|---|---|
| Sample ID: | **MWA-1** | Lab Sample ID: | **1999-12-0361-001** |
| Project: | 138-1231-2 | Received: | 12/21/1999 15:14 |
| | | Extracted: | 12/22/1999 10:50 |
| Sampled: | 12/18/1999 | QC-Batch: | 1999/12/22-03.15 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Lead | ND | 0.0050 | mg/L | 1.00 | 12/22/1999 16:08 | |

To: **Weiss Associates**
Attn.: Melissa Chamberlain

Test Method: 6010B
Prep Method: 3005A

**Batch QC Report**
Soluble Metals

**Method Blank** **Water** **QC Batch # 1999/12/22-03.15**

MB: 1999/12/22-03.15-047 Date Extracted: 12/22/1999 10:50

| Compound | Result | Rep.Limit | Units | Analyzed | Flag |
|---|---|---|---|---|---|
| Lead | ND | 0.0050 | mg/L | 12/27/1999 13:24 | |

To: **Weiss Associates** Test Method: 6010B

Attn: Melissa Chamberlain Prep Method: 3005A

## Batch QC Report

Soluble Metals

**Laboratory Control Spike (LCS/LCSD)** **Water** **QC Batch # 1999/12/22-03.15**

LCS: 1999/12/22-03.15-048 Extracted: 12/22/1999 10:50 Analyzed: 12/27/1999 13:28

LCSD: 1999/12/22-03.15-049 Extracted: 12/22/1999 10:50 Analyzed: 12/27/1999 13:31

| Compound | Conc. [ mg/L ] | | Exp.Conc. [ mg/L ] | | Recovery [%] | | RPD | Ctrl. Limits [%] | | Flags | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LCS | LCSD | LCS | LCSD | LCS | LCSD | [%] | Recovery | RPD | LCS | LCSD |
| Lead | 0.454 | 0.455 | 0.500 | 0.500 | 90.8 | 91.0 | 0.2 | 80-120 | 20 | | |

# CHROMALAB, INC.

Environmental Services (SDB)

**Submission #: 1999-12-0361**

Total Extractable Petroleum Hydrocarbons (TEPH)


**Weiss Associates**

5500 Shellmound Street
Emeryville, CA 94608

Attn: Melissa Chamberlain

Phone: (510) 450-6000 Fax: (510) 547-5043

Project #: 138-1231-2

Project:


**Samples Reported**

| Sample ID | Matrix | Date Sampled | Lab # |
|---|---|---|---|
| MWA-1 | Water | 12/18/1999 | 1 |

To: **Weiss Associates**
Attn.: Melissa Chamberlain

Test Method: 8015m
Prep Method: 3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

| | | | |
|---|---|---|---|
| Sample ID: | **MWA-1** | Lab Sample ID: | **1999-12-0361-001** |
| Project: | 138-1231-2 | Received: | 12/21/1999 15:14 |
| | | Extracted: | 12/27/1999 09:00 |
| Sampled: | 12/18/1999 | QC-Batch: | 1999/12/27-02.10 |
| Matrix: | Water | | |

| Compound | Result | Rep.Limit | Units | Dilution | Analyzed | Flag |
|---|---|---|---|---|---|---|
| Diesel | 57 | 51 | ug/L | 1.01 | 12/28/1999 18:18 | ndp |
| Paint Thinner | ND | 50 | ug/L | 1.00 | 12/28/1999 18:18 | |
| ***Surrogate(s)*** | | | | | | |
| o-Terphenyl | 81.5 | 60-130 | % | 1.00 | 12/28/1999 18:18 | |

To: **Weiss Associates**
Attn.: Melissa Chamberlain

Test Method: 8015m
Prep Method: 3510/8015M

**Batch QC Report**

Total Extractable Petroleum Hydrocarbons (TEPH)

**Method Blank** | **Water** | **QC Batch # 1999/12/27-02.10**

MB: 1999/12/27-02.10-001 | Date Extracted: 12/27/1999 08:00

| Compound | Result | Rep.Limit | Units | Analyzed | Flag |
|---|---|---|---|---|---|
| Diesel | ND | 50 | ug/L | 12/27/1999 17:14 | |
| Paint Thinner | ND | 50 | ug/L | 12/27/1999 17:14 | |
| ***Surrogate(s)*** | | | | | |
| o-Terphenyl | 91.5 | 60-130 | % | 12/27/1999 17:14 | |

To: **Weiss Associates** Test Method: 8015m

Attn: Melissa Chamberlain Prep Method: 3510/8015M

**Batch QC Report**

Total Extractable Petroleum Hydrocarbons (TEPH)

**Laboratory Control Spike (LCS/LCSD)** **Water** **QC Batch # 1999/12/27-02.10**

LCS: 1999/12/27-02.10-002 Extracted: 12/27/1999 08:00 Analyzed: 12/27/1999 19:03

LCSD: 1999/12/27-02.10-003 Extracted: 12/27/1999 08:00 Analyzed: 12/27/1999 19:40

| Compound | Conc. [ ug/L ] | | Exp.Conc. [ ug/L ] | | Recovery [%] | | RPD | Ctrl. Limits [%] | | Flags | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LCS | LCSD | LCS | LCSD | LCS | LCSD | [%] | Recovery | RPD | LCS | LCSD |
| Diesel | 1060 | 1120 | 1250 | 1250 | 84.8 | 89.6 | 5.5 | 60-130 | 25 | | |
| ***Surrogate(s)*** | | | | | | | | | | | |
| o-Terphenyl | 13.4 | 17.9 | 20.0 | 20.0 | 67.0 | 89.5 | | 60-130 | | | |

To: **Weiss Associates**
Attn:Melissa Chamberlain

Test Method: 8015m
Prep Method: 3510/8015M

## Legend & Notes

Total Extractable Petroleum Hydrocarbons (TEPH)

**Analyte Flags**

ndp

*Hydrocarbon reported does not match the pattern of our Diesel standard*

9972-0361

Weiss Associates
Environmental and Geologic Services
5500 Shellmound Street, Emeryville, CA 94608
Phone 510-450-6000 Fax: 510-547-5043
AguaTerra Associates Incorporated, DBA

Please send analytic results and a copy of the signed chain of custody form to:
Melissa Chamberlain
Project ID: 138-1231-2
Site Name: Bucato Plate

Lab Personnel: PLEASE INCLUDE QA/QC DATA IF BOX IS CHECKED.

1) Specify analytic method and detection limit in report.
2) Notify us if there are any anomalous peaks in GC or other scans.
3) ANY QUESTIONS/CLARIFICATIONS: CALL US.

# CHAIN-OF-CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sampled by Gary C.

Laboratory Name: Chromo Lab

| No of Containers | Sample ID | Container Type[1] | Sample Date | Sample Time | Vol[2] | Filter[3] | Refrig[4] | Preservative (specify) | Analyze for | Analytic Method | Turn[5] | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | MWA-1 | VOA | 12-18-99 | 917 | 40ml | N | Y | HCL | TPH-G/BTEX/MTBE | 8015/8020 | N | |
| 1 | MWA-1 | liter | 12-18-99 | 920 | Liter | N | Y | NO | TPH Diesel | 8015 | N | |
| 1 | MWA-1 | liter | 12-18-99 | 920 | Liter | N | Y | No | TPH-Paint thinner | 8015 | N | |
| 1 | MWA-1 | P | 12-18-99 | 920 | 250 | N | Y | NO | Soluble Lead | EPA 6010 | N | *Filter in Lab* |
| 2 | TB | VOA | 12-18-99 | 800 | 40ml | N | Y | HCL | TPH-G/BTEX/MTBE | 8015/8020 | HOLD | * HOLD * |

1 Gary C. 12-18-99
Released by (Signature), Date, Time

1 Weiss Assoc. 945
Affiliation

2 Joyce Adams 12-13-99
Received by (Signature), Date, Time

2 Weiss Assoc. 945
Affiliation

3 Joyce Adams 12/21/99 1:29
Released by (Signature), Date, Time

3 Weiss Associates
Affiliation

4
Shipping Carrier, Method, Date, Time

4
Affiliation

5
Released by (Signature), Date, Time

5 12-21-99 1514
Affiliation

6 12-21-99 1550
Received by Lab Personnel, Date, Time

6 rec'd for lab: Denise Harrington
Affiliation, Telephone 12/21/99 @ 1514

x
Seal intact?

1 Sample Type Codes W = Water, S = Soil, Describe Other; Container Type Codes: V = VOA/Teflon Septa, P = Plastic, C or B - Clear/Brown Glass, Describe Other;
Cap Codes PT = Plastic, Teflon Lined 2 = Volume per container; 3 = Filtered YY/N); 4 = Refrigerated (Y/N)
5 Turnaround [N = Normal, W = 1 Week, R = 24 Hour, HOLD (write out)]
ADDITIONAL COMMENTS, CONDITIONS, PROBLEMS: