#3737

CAMBRIA

FEB 14 2002

February 8, 2002

Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Fourth Quarter 2001 Monitoring Report and Sensitive Receptor Survey**
Shell-branded Service Station
630 High Street
Oakland, California
Incident #98995751
Cambria Project #244-0318-002

Dear Mr. Chan:

On behalf of Equiva Services LLC (Equiva), Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

## FOURTH QUARTER 2001 ACTIVITIES

***Groundwater Monitoring:*** Due to elevated methyl tertiary butyl ether (MTBE) concentrations recently detected in monitoring wells MW-3 and MW-6, Equiva elected to increase the monitoring frequency at the site to quarterly. This began in the fourth quarter 2001. Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled selected site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a vicinity/area well survey map (see below) and a groundwater elevation contour map (Figures 1 and 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

***Additional Oxygenate Analysis:*** In addition to the regular quarterly analysis for total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, xylenes and MTBE, groundwater samples from monitoring wells MW-3 and MW-6 were analyzed for four extra oxygenates and ethanol. Analytical results for MTBE, di-isopropyl ether, ethyl tertiary butyl ether, tertiary amyl methyl ether, tertiary butyl alcohol, and ethanol are presented on Table 1.

Oakland, CA
San Ramon, CA
Sonoma, CA

**Cambria Environmental Technology, Inc.**

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

***Sensitive Receptor Survey:*** In addition to increasing the sampling frequency to quarterly, Equiva also elected to have Cambria conduct a sensitive receptor survey for the site vicinity. Cambria attempted to identify surface water bodies and water producing wells within a ½-mile radius of the site. Based on a review of the USGS Oakland West Quadrangle topographic map, the nearest surface water body is a tidal canal, with the closest point located approximately 1,400 feet southwest of the site.

Cambria also reviewed California Department of Water Resources (DWR) files to locate records of municipal and private wells within a ½-mile radius of the site. The DWR provided 13 well completion report forms or equivalents, some of which documented multiple wells. Forms were provided for one boring, and for nine test holes and one well of unknown use installed in one location. In addition, one form was provided for nine test holes at an unidentified location, and one form was provided which listed only lithology up to a depth of 286 feet below grade with no legible location or use information. The remaining nine reports provided by the DWR were for wells located outside the study area, none of which are shown on Figure 1. Results of the well survey are summarized in Table 2, and well locations are mapped on Figure 1. Given the confidential nature of the DWR well information, copies of these records are not included in this report.

The groundwater flow direction, as calculated from depth-to-water measurements in onsite monitoring wells, typically flows northwest. However, based on surface topography, the regional groundwater flow direction is expected to be toward the southwest. Based on this information, the tidal canal, the boring located approximately 1,600 feet northwest, and the nine test holes and one well of unidentified use located approximately 2,600 feet west-northwest of the site, are located in the general downgradient direction of the site. No boring backfill or well construction information is provided on the DWR forms for any of the borings or wells.

## ANTICIPATED FIRST QUARTER 2002 ACTIVITIES

***Groundwater Monitoring:*** Blaine will gauge and sample selected site wells and tabulate the data. Cambria will prepare a monitoring report.

## CLOSING

We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.

Sincerely,
**Cambria Environmental Technology, Inc**

Jacquelyn L. Jones
Project Geologist

Diane M. Lundquist, P.E,
Principal Engineer


Figures: 1 - Vicinity / Area Well Survey Map
2 - Groundwater Elevation Contour Map

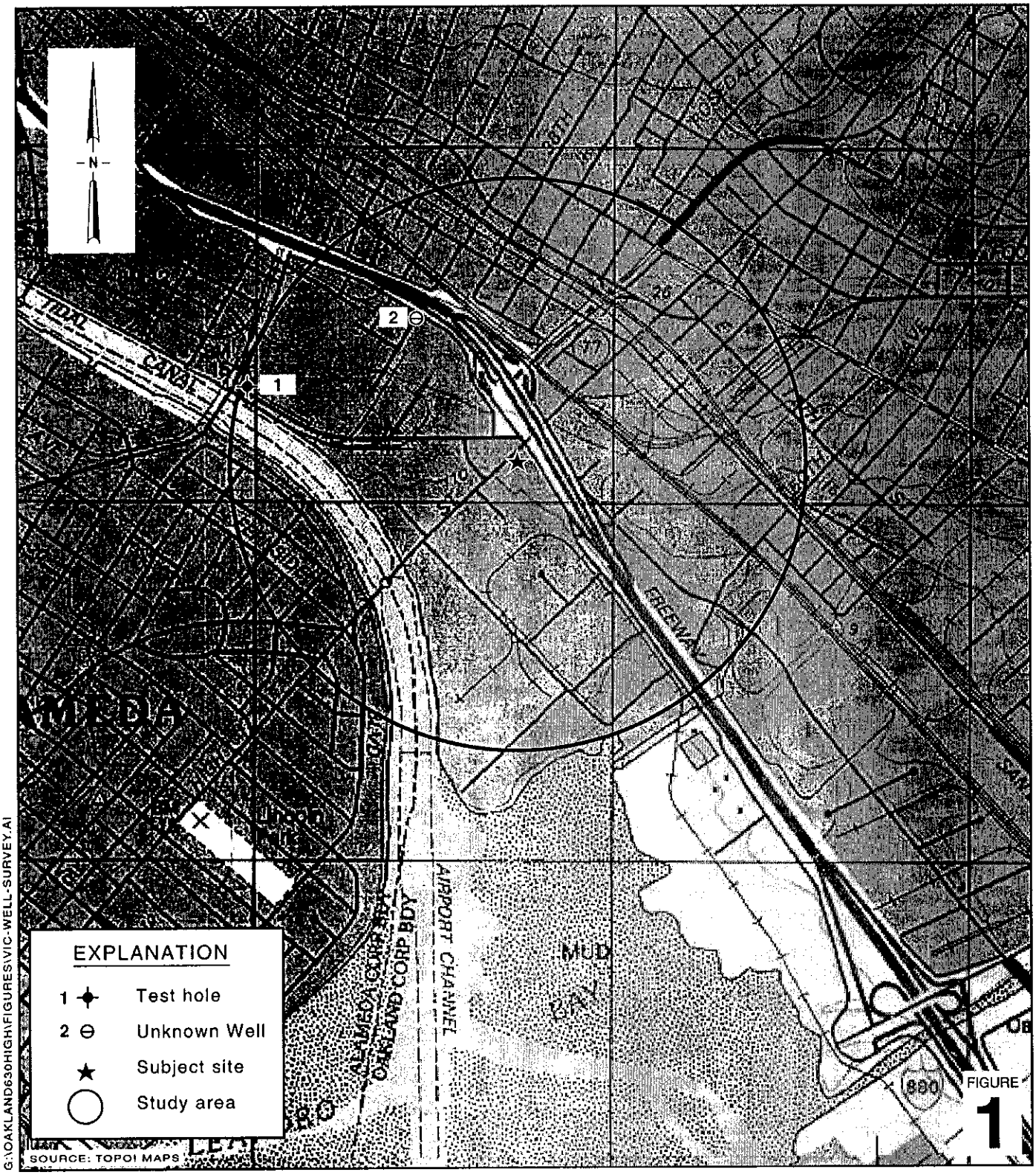
Tables: 1 - Groundwater Analytical Data – Oxygenates
2 - Well Survey Results

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869

G:\Oakland 630 High\QM\4q01qm and SRS.doc

01/31/02




G:\OAKLAND630HIGH\FIGURES\VIC-WELL-SURVEY.AI

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

**Shell-branded Service Station**
630 High Street
Oakland, California
Incident #98995751

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**Vicinity / Area Well Survey Map**
(1/2-Mile Radius)

01/31/02




FIGURE **2**

G:\OAKLAND\630HIGH\FIGURES\4GM01-MP.DWG

**Shell-branded Service Station**
630 High Street
Oakland, California
Incident #98995751

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**Groundwater Elevation Contour Map**

November 19, 2001

**Table 1.** **Groundwater Analytical Data - Oxygenates** - Shell-branded Service Station, Incident #98995751, 630 High Street, Oakland, California

| Sample ID | Date Sampled | MTBE | DIPE | ETBE | TAME | TBA | Ethanol |
|---|---|---|---|---|---|---|---|
| | | ← (Concentrations in ppb) → | | | | | |
| MW-3 | 11/19/01 | 3,400 | <5.0 | <5.0 | <5.0 | 230 | <500 |
| MW-6 | 11/19/01 | 2,600 | 26 | <5.0 | <5.0 | 75 | <500 |

**Abbreviations:**

MTBE = Methyl tert-butyl ether, analyzed by EPA Method 8260
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260
ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260
TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260
TBA = Tert-butyl alcohol, analyzed by EPA Method 8260
Ethanol analyzed by EPA Method 8260
ppb = Parts per billion

**Table 2. Well Survey Results -**
Shell-branded Service Station, 630 High Street, California
Incident # 98995751

| Map ID | Well No. | Address | Map Code | Use | Sanitary Seal Depth (fbg) | Screen Interval (fbg) | Depth (fbg) |
|---|---|---|---|---|---|---|---|
| 1 | 4S/3W-7K | Fruitvale and Alameda Avenues, Oakland, California | M | Boring | -- | None | 75.0 |
| 2 | -- | 37th and East 8th, Oakland, California | M | Test Hole | -- | -- | 20.0 |
| | | | | Test Hole | -- | -- | 35.0 |
| | | | | Test Hole | -- | -- | 36.0 |
| | | | | Test Hole | -- | -- | 55.0 |
| | | | | Test Hole | -- | -- | 45.0 |
| | | | | Test Hole | -- | -- | 40.0 |
| | | | | Test Hole | -- | -- | 36.0 |
| | | | | Test Hole | -- | -- | 45.0 |
| | | | | Test Hole | -- | -- | 45.0 |
| | | | | Well | -- | -- | 292.0 |
| NM | -- | -- | NM | -- | -- | -- | 286.0 |
| NM | -- | Continental Can Company | NM | Test Hole | -- | -- | 46.5 |
| | | | | Test Hole | -- | -- | 26.5 |
| | | | | Test Hole | -- | -- | 45.8 |
| | | | | Test Hole | -- | -- | 47.8 |
| | | | | Test Hole | -- | -- | 26.0 |
| | | | | Test Hole | -- | -- | 36.9 |
| | | | | Test Hole | -- | -- | 50.0 |
| | | | | Test Hole | -- | -- | 50.0 |
| | | | | Test Hole | -- | -- | 26.2 |

**Well Records provided by the Department of Water Resources (DWR).**

**Notes and Abbreviations:**
Map ID = Number used to indicate well on Figure 1.
Well No = Well identification number as recorded by the DWR.
fbg - feet below grade
NM = Location could not be determined from available information.
-- = information was not provided in well records.

# ATTACHMENT A

## Blaine Groundwater Monitoring Report and Field Notes

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

December 12, 2001

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91510-7869

Fourth Quarter 2001 Groundwater Monitoring at
Shell-branded Service Station
630 High Street
Oakland, CA

Monitoring performed on November 19, 2001

Groundwater Monitoring Report **011119-MN-2**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/mrb

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608-2411

# WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 01/29/1991 | 11,000 | 21,000a | 310 | 41 | 500 | 400 | NA | NA | 99.35 | 10.79 | 88.56 | NA |
| MW-1 | 04/30/1991 | 8,300 | 2,100 | 250 | 32 | 310 | 300 | NA | NA | 99.35 | 9.48 | 89.87 | NA |
| MW-1 | 07/22/1991 | 11,000 | 3,800 | 310 | 36 | 290 | 280 | NA | NA | 99.35 | 10.53 | 88.82 | NA |
| MW-1 | 02/21/1992 | 7,300 | 8,900b | 200 | 36 | 340 | 270 | NA | NA | 99.35 | 8.31 | 91.04 | NA |
| MW-1 | 05/22/1992 | 7,600 | 18,000b, c | 140 | <50 | 300 | 140 | NA | NA | 99.35 | 10.02 | 89.33 | NA |
| MW-1 | 07/07/1992 | NA | NA | NA | NA | NA | NA | NA | NA | 99.35 | 10.06 | 89.29 | NA |
| MW-1 | 08/20/1992 | 9,100 | 5,200b | 530 | 340 | 860 | 540 | NA | NA | 99.35 | 10.32 | 89.03 | NA |
| MW-1 | 11/18/1992 | 15,000 | 4,100b | 220 | 50 | 790 | 340 | NA | NA | 99.35 | 10.64 | 88.71 | NA |
| MW-1 | 02/09/1993 | 7,000 | 1,200 | 130 | 23 | 220 | 160 | NA | NA | 99.35 | 8.71 | 90.64 | NA |
| MW-1 | 06/16/1993 | 4,800 | NA | 150 | 31 | 320 | 130 | NA | NA | 99.35 | 9.71 | 89.64 | 1.73/1.58k |
| MW-1 | 08/24/1993 | 10,000 | NA | 170 | 27 | 610 | 170 | NA | NA | 99.35 | 10.23 | 89.12 | 1.49/1.70k |
| MW-1 | 11/23/1993 | 7,600 | NA | 190 | <12 | 430 | 140 | NA | NA | 99.35 | 10.48 | 88.87 | 1.77/2.80k |
| MW-1 | 02/14/1994 | 8,000 | NA | 150 | 47 | 210 | 68 | NA | NA | 99.35 | 9.17 | 90.18 | 6.2/2.5k |
| MW-1 | 05/25/1994 | 8,800 | NA | 95 | <10 | 210 | 63 | NA | NA | 99.35 | 9.52 | 89.83 | NA |
| MW-1 | 08/04/1994 | 6,200 | NA | 150 | 14 | 350 | 180 | NA | NA | 99.35 | 10.51 | 88.84 | NA |
| MW-1 | 11/08/1994 | 7,600 | NA | 190 | <10 | 480 | 200 | NA | NA | 99.35 | 10.20 | 89.15 | NA |
| MW-1 | 02/01/1995 | 8,200 | NA | 130 | 21 | 170 | 130 | NA | NA | 99.35 | 6.94 | 92.41 | NA |
| MW-1 | 05/04/1995 | 7,000 | NA | 130 | 47 | 190 | 180 | NA | NA | 99.35 | 8.40 | 90.95 | NA |
| MW-1 | 05/16/1997 | 5,600 | NA | 57 | <10 | 26 | 29 | 84 | NA | 99.35 | 9.93 | 89.42 | 1.5 |
| MW-1 | 11/03/1997 | 6,900 | NA | 81 | <10 | 32 | 30 | 170 | NA | 99.35 | 10.27 | 89.08 | 0.8/0.6k |
| MW-1 | 06/05/1998 | 4,200 | NA | 68 | 7.6 | 39 | 69 | 84 | NA | 99.35 | 8.95 | 90.40 | 1.0/0.5k |
| MW-1 | 11/06/1998 | 6,200 | NA | 87 | <2.5 | 48 | 55 | 200 | NA | 99.35 | 10.69 | 88.66 | 1.2/1.8 |
| MW-1 | 06/07/1999 | 5,210 | NA | 33.6 | 21.9 | 7.42 | <5.00 | 153 | 205 | 99.35 | 9.81 | 89.54 | NA |
| MW-1 | 06/22/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 99.35 | 9.55 | 89.80 | 0.8 |
| MW-1 | 08/27/1999 | 6,080 | NA | 46.0 | <20.0 | <20.0 | 26.1 | 303 | 429 | 99.35 | 10.00 | 89.35 | 0.7/1.5 |
| MW-1 | 11/11/1999 | 7,660 | NA | 92.0 | 20.4 | 28.2 | 46.1 | 520 | 542 | 99.35 | 10.27 | 89.08 | 1.3/1.8 |

# WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 04/26/2000 | 3,730 | NA | 69.4 | <5.00 | 9.42 | 28.6 | 206 | NA | 99.35 | 9.54 | 89.81 | 2.30/2.71 |
| MW-1 | 11/02/2000 | 4,930 | NA | 81.3 | 5.32 | 18.3 | 29.8 | 440 | NA | 99.35 | 8.90 | 90.45 | 3.0/3.2 |
| MW-1 | 05/31/2001 | 6,800 | NA | 64 | 7.1 | 7.2 | 28 | NA | 790 | 99.35 | 9.25 | 90.10 | 2.3/2.6 |
| **MW-1** | **11/19/2001** | **6,100** | **NA** | **41** | **4.9** | **10** | **25** | **NA** | **710** | **99.35** | **10.09** | **89.26** | **1.2/0.8** |
| MW-2 | 01/29/1991 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 13.25 | 87.90 | NA |
| MW-2 | 04/30/1991 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 10.94 | 90.21 | NA |
| MW-2 | 07/22/1991 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 12.14 | 89.01 | NA |
| MW-2 | 02/21/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 10.08 | 91.07 | NA |
| MW-2 | 05/22/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 11.52 | 89.63 | NA |
| MW-2 | 07/07/1992 | NA | NA | NA | NA | NA | NA | NA | NA | 101.15 | 11.50 | 89.65 | NA |
| MW-2 | 08/20/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 11.72 | 89.43 | NA |
| MW-2 | 11/18/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 13.06 | 88.09 | NA |
| MW-2 | 02/09/1993 | 95 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 10.06 | 91.09 | NA |
| MW-2 | 06/16/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 11.60 | 89.55 | NA |
| MW-2 | 08/24/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 12.16 | 88.99 | NA |
| MW-2 | 11/23/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 12.74 | 88.41 | NA |
| MW-2 | 02/14/1994 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 10.91 | 90.24 | NA |
| MW-2 | 05/25/1994 | 100 | NA | 1.2 | 4.9 | 2.3 | 13 | NA | NA | 101.15 | 11.06 | 90.09 | NA |
| MW-2 | 08/04/1994 | NA | NA | NA | NA | NA | NA | NA | NA | 101.15 | 12.04 | 89.11 | NA |
| MW-2 | 11/08/1994 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 12.38 | 88.77 | NA |
| MW-2 | 02/01/1995 | NA | NA | NA | NA | NA | NA | NA | NA | 101.15 | 8.76 | 92.39 | NA |
| MW-2 | 05/04/1995 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 101.15 | 10.20 | 90.95 | NA |
| MW-2 | 05/16/1997 | NA | NA | NA | NA | NA | NA | NA | NA | 101.15 | 11.28 | 89.87 | NA |
| MW-2 | 11/03/1997 | NA | NA | NA | NA | NA | NA | NA | NA | 101.15 | 11.71 | 89.44 | NA |
| MW-2 | 06/05/1998 | NA | NA | NA | NA | NA | NA | NA | NA | 101.15 | 9.85 | 91.30 | NA |

## WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 11/06/1998 | NA | NA | NA | NA | NA | NA | NA | NA | 101.15 | 12.60 | 88.55 | NA |
| MW-2 | 06/07/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 101.15 | 11.03 | 90.12 | NA |
| MW-2 | 08/27/1999 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | 19.2 | 34.5 | 101.15 | 10.98 | 90.17 | 0.71/4.0 |
| MW-2 | 11/11/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 101.15 | 10.33 | 90.82 | NA |
| MW-2 | 04/26/2000 | NA | NA | NA | NA | NA | NA | NA | NA | 101.15 | 9.58 | 91.57 | NA |
| MW-2 | 11/02/2000 | NA | NA | NA | NA | NA | NA | NA | NA | 101.15 | 10.03 | 91.12 | NA |
| MW-2 | 05/31/2001 | NA | NA | NA | NA | NA | NA | NA | NA | 101.15 | 10.01 | 91.14 | NA |
| **MW-2** | **11/19/2001** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **101.15** | **11.63** | **89.52** | **NA** |
| MW-3 | 01/29/1991 | 2,300 | 410a | 17 | 14.1 | 10 | 230 | NA | NA | 99.49 | 11.09 | 88.40 | NA |
| MW-3 | 04/30/1991 | <50 | 260 | 22 | 4 | 7 | 17 | NA | NA | 99.49 | 9.57 | 89.92 | NA |
| MW-3 | 07/22/1991 | 2,000 | 310 | 51 | <0.5 | <0.5 | <0.5 | NA | NA | 99.49 | 10.66 | 88.83 | NA |
| MW-3 | 02/21/1992 | 2,800 | 640d | 15 | 2.8 | <2.5 | 12 | NA | NA | 99.49 | 8.97 | 90.52 | NA |
| MW-3 | 05/22/1992 | 3,700 | 220b, c | 27 | 11 | 20 | 110 | NA | NA | 99.49 | 9.32 | 90.17 | NA |
| MW-3 | 07/07/1992 | NA | NA | NA | NA | NA | NA | NA | NA | 99.49 | 10.22 | 89.27 | NA |
| MW-3 | 08/20/1992 | 13,000 | 340b | 72 | 85 | 71 | 140 | NA | NA | 99.49 | 10.44 | 89.05 | NA |
| MW-3 | 11/18/1992 | 2,100 | 430b | 21 | 3.6 | 11 | 13 | NA | NA | 99.49 | 10.79 | 88.70 | NA |
| MW-3 | 02/09/1993 | 3,300 | 83 | 21 | 5.6 | 6.1 | <0.5 | NA | NA | 99.49 | 9.35 | 90.14 | NA |
| MW-3 | 06/16/1993 | 3,500e | NA | 66 | 6 | <0.5 | <0.5 | NA | NA | 99.49 | 9.56 | 89.93 | NA |
| MW-3 | 08/24/1993 | 3,400e | NA | 110 | <5 | <5 | <5 | NA | NA | 99.49 | 10.51 | 88.98 | NA |
| MW-3 | 11/23/1993 | 3,000 | NA | 36 | 44 | 6.9 | 23 | NA | NA | 99.49 | 10.77 | 88.72 | NA |
| MW-3 | 02/14/1994 | 4,700g | NA | 9.9 | 5.2 | 8.8 | <5.0 | NA | NA | 99.49 | 9.61 | 89.88 | NA |
| MW-3 | 05/25/1994 | 1,200 | NA | <10 | <10 | <10 | <10 | NA | NA | 99.49 | 10.00 | 89.49 | NA |
| MW-3 | 08/04/1994 | 2,600 | NA | 29 | <5 | 14 | 11 | NA | NA | 99.49 | 10.63 | 88.86 | NA |
| MW-3 | 11/08/1994 | 2,600 | NA | 5.5 | 1.5 | 1.9 | 0.9 | NA | NA | 99.49 | 11.02 | 88.47 | NA |
| MW-3 | 02/01/1995 | 4,600 | NA | 27 | 1.2 | 3.2 | 2.5 | NA | NA | 99.49 | 8.31 | 91.18 | NA |

## WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3 | 05/04/1995 | 1,800 | NA | 140 | 11 | 11 | 16 | NA | NA | 99.49 | 8.70 | 90.79 | NA |
| MW-3 | 05/16/1997 | NA | NA | NA | NA | NA | NA | NA | NA | 99.49 | 10.30 | 89.19 | NA |
| MW-3 | 11/03/1997 | NA | NA | NA | NA | NA | NA | NA | NA | 99.49 | 10.52 | 88.97 | NA |
| MW-3 | 06/05/1998 | NA | NA | NA | NA | NA | NA | NA | NA | 99.49 | 9.18 | 90.31 | NA |
| MW-3 | 11/06/1998 | NA | NA | NA | NA | NA | NA | NA | NA | 99.49 | 11.00 | 88.49 | NA |
| MW-3 | 06/07/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 99.49 | 10.93 | 88.56 | NA |
| MW-3 | 08/27/1999 | 8,600 | NA | 2,410 | 135 | 279 | 1,390 | 26,400 | 29,500 | 99.49 | 10.23 | 89.26 | 0.8/0.7 |
| MW-3 | 11/11/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 99.49 | 10.46 | 89.03 | NA |
| MW-3 | 04/26/2000 | 7,100 | NA | 1,310 | 573 | 89.2 | 376 | 35,000 | 38,000 | 99.49 | 9.45 | 90.04 | 2.42/2.63 |
| MW-3 | 11/02/2000 | 4,750 | NA | 1,210 | 29.3 | 50.5 | 125 | 8,750 | 8,960l | 99.49 | 10.05 | 89.44 | 2.0/2.5 |
| MW-3 | 05/31/2001 | 5,400 | NA | 860 | <20 | 29 | <20 | NA | 10,000 | 99.49 | 10.38 | 89.11 | 1.8/2.0 |
| **MW-3** | **11/19/2001** | **3,200** | **NA** | **440** | **7.8** | **8.6** | **23** | **NA** | **3,400** | **99.49** | **10.29** | **89.20** | **3.1/1.5** |
| MW-4 | 01/29/1991 | 2,600 | 1,300 | 83 | <0.5 | <0.5 | 110 | NA | NA | 99.24 | 10.76 | 88.48 | NA |
| MW-4 | 04/30/1991 | 2,600 | 750 | 22 | 4 | 7 | 17 | NA | NA | 99.24 | 9.45 | 89.79 | NA |
| MW-4 | 07/22/1991 | 4,300 | 1,200 | 120 | <0.5 | <0.5 | 10 | NA | NA | 99.24 | 10.34 | 88.90 | NA |
| MW-4 | 02/21/1992 | 2,000 | 8,300b | 31 | 6.3 | 3.5 | 6.6 | NA | NA | 99.24 | 7.60 | 91.64 | NA |
| MW-4 | 05/22/1992 | 3,600 | 3,400b, c | 55 | 5 | 3 | 10 | NA | NA | 99.24 | 9.90 | 89.34 | NA |
| MW-4 | 07/07/1992 | NA | NA | NA | NA | NA | NA | NA | NA | 99.24 | 10.02 | 89.22 | NA |
| MW-4 | 08/20/1992 | 3,100 | 3,400 | 100 | 45 | 14 | 45 | NA | NA | 99.24 | 10.32 | 88.92 | NA |
| MW-4 | 11/18/1992 | 2,200 | 1,400 | 32 | 12 | 4.2 | 24 | NA | NA | 99.24 | 10.51 | 88.73 | NA |
| MW-4 | 02/09/1993 | 1,500 | 180 | 1.1 | <0.5 | <0.5 | <0.5 | NA | NA | 99.24 | 8.13 | 91.11 | NA |
| MW-4 | 06/16/1993 | 1,100 | NA | 120 | 47 | 5.1 | 19 | NA | NA | 99.24 | 9.60 | 89.64 | 1.86/4.82k |
| MW-4 | 08/24/1993 | 2,700 | NA | 46 | 11 | 25 | 0.97 | NA | NA | 99.24 | 10.05 | 89.19 | 1.46/1.27k |
| MW-4 | 11/23/1993 | 2,500 | NA | 23 | 5.7 | 3.7 | 16 | NA | NA | 99.24 | 10.25 | 89.99 | 5.29/6.59k |
| MW-4 | 02/14/1994 | 1,500 | NA | 12 | 7.8 | <2.5 | <2.5 | NA | NA | 99.24 | 8.83 | 90.41 | 2.1/1.9k |

# WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-4 | 05/25/1994 | 810 | NA | 20 | <2 | <2 | 4 | NA | NA | 99.24 | 9.64 | 89.60 | NA |
| MW-4 | 08/04/1994 | 2,300 | NA | 99 | 15 | 6.3 | 24 | NA | NA | 99.24 | 10.62 | 88.62 | NA |
| MW-4 | 11/08/1994 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.24 | 9.28 | 89.96 | NA |
| MW-4 | 02/01/1995 | 960 | NA | 5.6 | 2.2 | 2.6 | 2.8 | NA | NA | 99.24 | 6.52 | 92.72 | NA |
| MW-4 | 05/04/1995 | 960 | NA | 20 | 4.7 | 3.7 | 5.6 | NA | NA | 99.24 | 8.40 | 90.84 | NA |
| MW-4 | 05/16/1997 | NA | NA | NA | NA | NA | NA | NA | NA | 99.24 | 9.35 | 89.89 | NA |
| MW-4 | 11/03/1997 | NA | NA | NA | NA | NA | NA | NA | NA | 99.24 | 10.17 | 89.07 | NA |
| MW-4 | 06/05/1998 | NA | NA | NA | NA | NA | NA | NA | NA | 99.24 | 8.85 | 90.39 | NA |
| MW-4 | 11/06/1998 | NA | NA | NA | NA | NA | NA | NA | NA | 99.24 | 10.17 | 89.07 | NA |
| MW-4 | 06/07/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 99.24 | 11.06 | 88.18 | NA |
| MW-4 | 08/27/1999 | 1,520 | NA | 32.8 | 6.25 | <2.50 | 5.65 | 61.5 | <2.00 | 99.24 | 10.25 | 88.99 | 1.0/1.4 |
| MW-4 | 11/11/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 99.24 | 10.11 | 89.13 | NA |
| MW-4 | 04/26/2000 | NA | NA | NA | NA | NA | NA | NA | NA | 99.24 | 9.18 | 90.06 | NA |
| MW-4 | 11/02/2000 | NA | NA | NA | NA | NA | NA | NA | NA | 99.24 | 9.72 | 89.52 | NA |
| MW-4 | 05/31/2001 | NA | NA | NA | NA | NA | NA | NA | NA | 99.24 | 9.29 | 89.95 | NA |
| **MW-4** | **11/19/2001** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **99.24** | **9.98** | **89.26** | **NA** |
| MW-5 | 01/29/1991 | 3,100 | 720 | 86 | <0.5 | 24 | 28 | NA | NA | 100.08 | 11.72 | 88.36 | NA |
| MW-5 | 04/30/1991 | <50 | 90 | 46 | <0.5 | 9 | 9 | NA | NA | 100.08 | 10.45 | 89.63 | NA |
| MW-5 | 07/22/1991 | 1,700 | 300 | 23 | <0.5 | 6,700 | 10,000 | NA | NA | 100.08 | 11.43 | 88.65 | NA |
| MW-5 | 02/21/1992 | 240 | 180h | 1 | <0.5 | <0.5 | 1 | NA | NA | 100.08 | 9.24 | 90.84 | NA |
| MW-5 | 05/22/1992 | 6,200 | 7,100b, c | 6 | 95 | 56 | 99 | NA | NA | 100.08 | 10.97 | 89.11 | NA |
| MW-5 | 07/07/1992 | NA | NA | NA | NA | NA | NA | NA | NA | 100.08 | 10.98 | 89.10 | NA |
| MW-5 | 08/20/1992 | 7,400 | 120b | 56 | 95 | 91 | 150 | NA | NA | 100.08 | 11.14 | 88.94 | NA |
| MW-5 | 11/18/1992 | 3,300 | 320b | 27 | <12.5 | 20 | 470 | NA | NA | 100.08 | 11.21 | 88.87 | NA |
| MW-5 | 02/09/1993 | 160 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 100.08 | 10.01 | 90.07 | NA |

## WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5 | 06/16/1993 | 140 | NA | 0.8 | <0.5 | <0.5 | <0.5 | NA | NA | 100.08 | 11.05 | 89.03 | 1.53/2.72k |
| MW-5 | 08/24/1993 | 1,000 | NA | 7.9 | <1 | 2.2 | <1.5 | NA | NA | 100.08 | 11.32 | 88.76 | 2.69/1.41k |
| MW-5 | 11/23/1993 | 2,000 | NA | 67 | 15 | 11 | 33 | NA | NA | 100.08 | 11.35 | 88.73 | 8.20/3.09k |
| MW-5 | 02/14/1994 | 660 | NA | 1.3 | <0.5 | 0.5 | 0.7 | NA | NA | 100.08 | 10.34 | 89.74 | 2.0/1.9k |
| MW-5 | 05/25/1994 | 670 | NA | 0.65 | <0.5 | 2.6 | <0.5 | NA | NA | 100.08 | 10.54 | 89.54 | NA |
| MW-5 | 08/04/1994 | 700 | NA | 5 | <0.5 | 1.2 | <0.5 | NA | NA | 100.08 | 11.50 | 88.58 | NA |
| MW-5 | 11/08/1994 | 810 | NA | 4.2 | <0.5 | 1.5 | 0.8 | NA | NA | 100.08 | 11.24 | 88.84 | NA |
| MW-5 | 02/01/1995 | 110 | NA | 7 | <0.5 | <0.5 | <0.5 | NA | NA | 100.08 | 9.05 | 91.03 | NA |
| MW-5 | 05/04/1995 | 260 | NA | 3.1 | 1.3 | 2 | 1.5 | NA | NA | 100.08 | 10.35 | 89.73 | NA |
| MW-5 | 05/16/1997 | 440 | NA | 2.4 | 3.1 | 1.6 | 3.3 | 7.1 | NA | 100.08 | 11.21 | 88.87 | 2.9 |
| MW-5 | 11/03/1997 | 1,400 | NA | 34 | <2.5 | 2.8 | 4.4 | 33 | NA | 100.08 | 11.43 | 88.65 | 3.0/1.2k |
| MW-5 | 06/05/1998 | 230 | NA | 3.6 | 0.5 | <0.50 | 1.3 | 34 | NA | 100.08 | 10.35 | 89.73 | 3.2/1.4k |
| MW-5 | 11/06/1998 | 1,800 | NA | 29 | <0.50 | 3.8 | 7.1 | 26 | NA | 100.08 | 11.89 | 88.19 | 2.6/3.0 |
| MW-5 | 06/07/1999 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | 19.5 | NA | 100.08 | 10.28 | 89.80 | NA |
| MW-5 | 06/22/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 100.08 | 10.74 | 89.34 | 0.6 |
| MW-5 | 08/27/1999 | 254 | NA | 5.09 | 1.08 | <0.500 | <0.500 | 9.97 | 12.0 | 100.08 | 11.01 | 89.07 | NA |
| MW-5 | 11/11/1999 | 549 | NA | 16.4 | 3.29 | 2.18 | 3.16 | 18.2 | NA | 100.08 | 11.33 | 88.75 | 2.3/2.7 |
| MW-5 | 04/26/2000 | 338 | NA | 0.787 | 2.30 | <0.500 | 3.01 | 21.7 | NA | 100.08 | 10.32 | 89.76 | 1.99/3.01 |
| MW-5 | 11/02/2000 | 507 | NA | 0.659 | 2.39 | 2.70 | 3.88 | 20.0 | NA | 100.08 | 10.75 | 89.33 | 4.0/2.0 |
| MW-5 | 05/31/2001 | 67 | NA | <0.50 | <0.50 | <0.50 | <0.50 | NA | 87 | 100.08 | 10.53 | 89.55 | 3.8/2.1 |
| **MW-5** | **11/19/2001** | **850** | **NA** | **2.8** | **1.4** | **2.3** | **8.5** | **NA** | **57** | **100.08** | **10.88** | **89.20** | **2.6/1.9** |
| MW-6 | 01/29/1991 | <50 | 860 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.56 | 10.23 | 88.33 | NA |
| MW-6 | 04/30/1991 | <50 | 1,100 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.56 | 9.15 | 89.41 | NA |
| MW-6 | 07/22/1991 | <50 | 1,200 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.56 | 10.10 | 88.46 | NA |
| MW-6 | 02/21/1992 | <50 | 60d | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.56 | 7.15 | 91.41 | NA |

# WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-6 | 05/22/1992 | <50 | 650c | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.56 | 9.55 | 89.01 | NA |
| MW-6 | 07/07/1992 | NA | NA | NA | NA | NA | NA | NA | NA | 98.56 | 9.53 | 89.03 | NA |
| MW-6 | 08/20/1992 | 140e | 510c | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.56 | 9.84 | 88.72 | NA |
| MW-6 | 11/18/1992 | 200e | 350 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.56 | 10.03 | 88.53 | NA |
| MW-6 | 02/09/1993 | 14,000e | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.56 | 7.91 | 90.65 | NA |
| MW-6 | 06/16/1993 | 5,700e | NA | <0.5 | 22 | <0.5 | 34 | NA | NA | 98.56 | 8.74 | 89.82 | 8.46/9.73k |
| MW-6 | 08/24/1993 | 4,300e | NA | <12.5 | <12.5 | <12.5 | <12.5 | NA | NA | 98.56 | 9.66 | 88.90 | 2.15/1.52k |
| MW-6 | 11/23/1993 | 3,300e | NA | <12 | <12 | <12 | <12 | NA | NA | 98.56 | 9.86 | 88.70 | 3.86/6.75k |
| MW-6 | 02/14/1994 | 14,000e | NA | <12.5 | <12.5 | <12.5 | <12.5 | NA | NA | 98.56 | 8.27 | 90.29 | 2.3/5.2k |
| MW-6 | 05/25/1994 | <1,000i | NA | <10 | <10 | <10 | <10 | NA | NA | 98.56 | 8.89 | 89.67 | NA |
| MW-6 | 08/04/1994 | 250j | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.56 | 10.10 | 88.46 | NA |
| MW-6 | 11/08/1994 | 4,600e | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.56 | 8.98 | 89.58 | NA |
| MW-6 | 02/01/1995 | 710 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.56 | 7.07 | 91.49 | NA |
| MW-6 | 05/04/1995 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.56 | 8.56 | 90.00 | NA |
| MW-6 | 05/16/1997 | <500 | NA | <5.0 | <5.0 | <5.0 | <5.0 | 1,700 | NA | 98.56 | 9.57 | 88.99 | 6.2 |
| MW-6 | 11/03/1997 | <500 | NA | <5.0 | <5.0 | <5.0 | <5.0 | 990 | NA | 98.56 | 9.76 | 88.80 | 1.4/1.0k |
| MW-6 | 06/05/1998 | <50 | NA | <0.50 | <0.50 | <0.50 | <0.50 | 590 | NA | 98.56 | 8.50 | 90.06 | 1.5/1.1k |
| MW-6 | 11/06/1998 | <250 | NA | <2.5 | <2.5 | <2.5 | <2.5 | 810 | NA | 98.56 | 10.00 | 88.56 | 2.0/1.4 |
| MW-6 | 06/07/1999 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | 71.5 | NA | 98.56 | 9.35 | 89.21 | NA |
| MW-6 | 06/22/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 98.56 | 9.20 | 89.36 | 1.9 |
| MW-6 | 08/27/1999 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | 197 | 276 | 98.56 | 9.52 | 89.04 | 1.5/7.8 |
| MW-6 | 11/11/1999 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | 212 | NA | 98.56 | 9.87 | 88.69 | 1.4/1.7 |
| MW-6 | 04/26/2000 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | 236 | NA | 98.56 | 9.13 | 89.43 | 1.93/2.90 |
| MW-6 | 11/02/2000 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | 497 | NA | 98.56 | 9.13 | 89.43 | 2.5/3.5 |
| MW-6 | 05/31/2001 | <2,000 | NA | <20 | <20 | <20 | <20 | NA | 5,400 | 98.56 | 9.22 | 89.34 | 1.8/2.1 |
| **MW-6** | **11/19/2001** | **<500** | **NA** | **5.0** | **<5.0** | **<5.0** | **18** | **NA** | **2,600** | **98.56** | **9.48** | **89.08** | **2.5/1.9** |

## WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7 | 01/29/1991 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 8.91 | 88.62 | NA |
| MW-7 | 04/30/1991 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 8.38 | 89.15 | NA |
| MW-7 | 07/22/1991 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 9.13 | 88.40 | NA |
| MW-7 | 02/21/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 6.87 | 90.66 | NA |
| MW-7 | 05/22/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 8.08 | 89.45 | NA |
| MW-7 | 07/07/1992 | NA | NA | NA | NA | NA | NA | NA | NA | 97.53 | 8.82 | 88.71 | NA |
| MW-7 | 08/20/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 8.89 | 88.64 | NA |
| MW-7 | 11/18/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 9.54 | 87.99 | NA |
| MW-7 | 02/09/1993 | 72 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 7.84 | 89.69 | NA |
| MW-7 | 06/16/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 7.80 | 89.73 | NA |
| MW-7 | 08/24/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 8.51 | 89.02 | NA |
| MW-7 | 11/23/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 8.70 | 88.83 | NA |
| MW-7 | 02/14/1994 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 7.52 | 90.01 | NA |
| MW-7 | 05/25/1994 | <50 | NA | <0.5 | 0.63 | <0.5 | 0.93 | NA | NA | 97.53 | 9.04 | 88.49 | NA |
| MW-7 | 08/04/1994 | NA | NA | NA | NA | NA | NA | NA | NA | 97.53 | 9.80 | 87.83 | NA |
| MW-7 | 11/08/1994 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 8.45 | 89.08 | NA |
| MW-7 | 02/01/1995 | NA | NA | NA | NA | NA | NA | NA | NA | 97.53 | 5.51 | 92.02 | NA |
| MW-7 | 05/04/1995 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.53 | 8.34 | 89.19 | NA |
| MW-7 | 05/16/1997 | <50 | NA | <0.50 | <0.50 | <0.50 | <0.50 | 2.7 | NA | 97.53 | 8.80 | 88.73 | 2.8 |
| MW-7 | 11/03/1997 | <50 | NA | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | NA | 97.53 | 8.95 | 88.58 | 1.6/1.2k |
| MW-7 | 06/05/1998 | <50 | NA | <0.50 | <0.50 | <0.50 | <0.50 | 4.3 | NA | 97.53 | 7.75 | 89.78 | 1.5/1.1k |
| MW-7 | 11/06/1998 | <50 | NA | <0.50 | <0.50 | <0.50 | <0.50 | 4.5 | NA | 97.53 | 9.20 | 88.33 | 4.1/2.2 |
| MW-7 | 06/07/1999 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | <2.50 | NA | 97.53 | 8.39 | 89.14 | NA |
| MW-7 | 06/22/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 97.53 | 8.43 | 89.10 | 0.4 |
| MW-7 | 06/22/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 97.53 | 8.43 | 89.10 | 0.4 |

# WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-7 | 08/27/1999 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | 4.33 | 97.53 | 8.82 | 88.71 | 1.3/1.9 |
| MW-7 | 11/11/1999 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | 4.30 | NA | 97.53 | 8.64 | 88.89 | 1.1/1.0 |
| MW-7 | 04/26/2000 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | 6.59 | NA | 97.53 | 8.31 | 89.22 | 1.09/2.41 |
| MW-7 | 11/02/2000 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | 7.38 | NA | 97.53 | 7.80 | 89.73 | 4.0/4.0 |
| MW-7 | 05/31/2001 | <50 | NA | <0.50 | 1.4 | <0.50 | 4.6 | NA | 5.3 | 97.53 | 7.61 | 89.92 | 3.2/3.3 |
| **MW-7** | **11/19/2001** | **<50** | **NA** | **0.64** | **0.86** | **1.6** | **6.1** | **NA** | **7.3** | **97.53** | **9.11** | **88.42** | **2.6/2.1** |
| MW-8 | 01/29/1991 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 8.47 | 88.66 | NA |
| MW-8 | 04/30/1991 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 7.64 | 89.49 | NA |
| MW-8 | 07/22/1991 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 8.36 | 88.77 | NA |
| MW-8 | 02/21/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 6.54 | 90.59 | NA |
| MW-8 | 05/22/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 7.68 | 89.45 | NA |
| MW-8 | 07/07/1992 | NA | NA | NA | NA | NA | NA | NA | NA | 97.13 | 8.16 | 88.97 | NA |
| MW-8 | 08/20/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 8.25 | 88.88 | NA |
| MW-8 | 11/18/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 8.32 | 88.81 | NA |
| MW-8 | 02/09/1993 | 63 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 5.58 | 91.55 | NA |
| MW-8 | 06/16/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 7.19 | 89.94 | NA |
| MW-8 | 08/24/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 7.98 | 89.15 | NA |
| MW-8 | 11/23/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 8.09 | 89.04 | NA |
| MW-8 | 02/14/1994 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 9.42 | 87.71 | NA |
| MW-8 | 05/25/1994 | <50 | NA | <0.5 | 1.1 | <0.5 | 2.5 | NA | NA | 97.13 | 7.18 | 89.95 | NA |
| MW-8 | 08/04/1994 | NA | NA | NA | NA | NA | NA | NA | NA | 97.13 | 8.51 | 88.62 | NA |
| MW-8 | 11/08/1994 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 6.24 | 90.89 | NA |
| MW-8 | 02/01/1995 | NA | NA | NA | NA | NA | NA | NA | NA | 97.13 | 3.94 | 93.19 | NA |
| MW-8 | 05/04/1995 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 97.13 | 5.04 | 92.09 | NA |
| MW-8 | 05/16/1997 | NA | NA | NA | NA | NA | NA | NA | NA | 97.13 | 7.65 | 89.48 | NA |

## WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-8 | 11/03/1997 | NA | NA | NA | NA | NA | NA | NA | NA | 97.13 | 7.03 | 90.10 | NA |
| MW-8 | 06/05/1998 | NA | NA | NA | NA | NA | NA | NA | NA | 97.13 | 6.47 | 90.66 | NA |
| MW-8 | 11/06/1998 | NA | NA | NA | NA | NA | NA | NA | NA | 97.13 | 8.27 | 88.86 | NA |
| MW-8 | 06/07/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 97.13 | 8.69 | 88.44 | NA |
| MW-8 | 08/27/1999 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | <2.00 | 97.13 | 7.82 | 89.31 | 1.5/2.0 |
| MW-8 | 11/11/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 97.13 | 7.91 | 89.22 | NA |
| MW-8 | 04/26/2000 | NA | NA | NA | NA | NA | NA | NA | NA | 97.13 | 7.10 | 90.03 | NA |
| MW-8 | 11/02/2000 | NA | NA | NA | NA | NA | NA | NA | NA | 97.13 | 7.95 | 89.18 | NA |
| MW-8 | 05/31/2001 | NA | NA | NA | NA | NA | NA | NA | NA | 97.13 | 7.22 | 89.91 | NA |
| **MW-8** | **11/19/2001** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **97.13** | **7.70** | **89.43** | **NA** |
| MW-9 | 01/29/1991 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 8.27 | 91.45 | NA |
| MW-9 | 04/30/1991 | <50 | <50 | 0.6 | <0.5 | <0.5 | 1.1 | NA | NA | 99.72 | 7.62 | 92.10 | NA |
| MW-9 | 07/22/1991 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 8.48 | 91.24 | NA |
| MW-9 | 02/21/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 6.91 | 92.81 | NA |
| MW-9 | 05/22/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 8.64 | 91.08 | NA |
| MW-9 | 07/07/1992 | NA | NA | NA | NA | NA | NA | NA | NA | 99.72 | 7.55 | 92.17 | NA |
| MW-9 | 08/20/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 7.38 | 92.34 | NA |
| MW-9 | 11/18/1992 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 10.17 | 89.55 | NA |
| MW-9 | 02/09/1993 | 290 | 110 | 6 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 6.89 | 92.83 | NA |
| MW-9 | 06/16/1993 | 90e | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 8.74 | 90.98 | 1.51/2.17k |
| MW-9 | 08/24/1993 | 50e | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 8.32 | 91.40 | 2.86/2.74k |
| MW-9 | 11/23/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 8.17 | 91.55 | 3.41/3.78k |
| MW-9 | 02/14/1994 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 7.67 | 92.05 | 4.6/5.2k |
| MW-9 | 05/25/1994 | 56 | NA | 1.3 | 4 | 1.4 | 8.3 | NA | NA | 99.72 | 7.89 | 91.83 | NA |
| MW-9 | 08/04/1994 | NA | NA | NA | NA | NA | NA | NA | NA | 99.72 | 9.76 | 89.96 | NA |

# WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-9 | 11/08/1994 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 7.75 | 91.97 | NA |
| MW-9 | 02/01/1995 | NA | NA | NA | NA | NA | NA | NA | NA | 99.72 | 5.66 | 94.06 | NA |
| MW-9 | 05/04/1995 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 99.72 | 7.40 | 92.32 | NA |
| MW-9 | 05/16/1997 | NA | NA | NA | NA | NA | NA | NA | NA | 99.72 | 7.72 | 92.00 | NA |
| MW-9 | 11/03/1997 | NA | NA | NA | NA | NA | NA | NA | NA | 99.72 | 6.93 | 92.79 | NA |
| MW-9 | 06/05/1998 | NA | NA | NA | NA | NA | NA | NA | NA | 99.72 | 7.23 | 92.49 | NA |
| MW-9 | 11/06/1998 | NA | NA | NA | NA | NA | NA | NA | NA | 99.72 | 9.91 | 89.81 | NA |
| MW-9 | 06/07/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 99.72 | 9.03 | 90.69 | NA |
| MW-9 | 08/27/1999 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | <2.00 | 99.72 | 7.45 | 92.27 | 3.5/4.3 |
| MW-9 | 11/11/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 99.72 | 7.40 | 92.32 | NA |
| MW-9 | 04/26/2000 | NA | NA | NA | NA | NA | NA | NA | NA | 99.72 | 7.66 | 92.06 | NA |
| MW-9 | 11/02/2000 | NA | NA | NA | NA | NA | NA | NA | NA | 99.72 | 8.41 | 91.31 | NA |
| MW-9 | 05/31/2001 | NA | NA | NA | NA | NA | NA | NA | NA | 99.72 | 8.02 | 91.70 | NA |
| **MW-9** | **11/19/2001** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **99.72** | **8.40** | **91.32** | **NA** |
| MW-10 | 01/29/1991 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 10.81 | 88.18 | NA |
| MW-10 | 04/30/1991 | <50 | 460 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 8.79 | 90.20 | NA |
| MW-10 | 07/22/1991 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 9.94 | 89.05 | NA |
| MW-10 | 02/21/1992 | <50 | 120 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 9.11 | 89.88 | NA |
| MW-10 | 05/22/1992 | <50 | 310 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 9.14 | 89.85 | NA |
| MW-10 | 07/07/1992 | NA | NA | NA | NA | NA | NA | NA | NA | 98.99 | 9.87 | 89.12 | NA |
| MW-10 | 08/20/1992 | <50 | 460 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 9.30 | 89.69 | NA |
| MW-10 | 11/18/1992 | <50 | 470 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 10.21 | 88.78 | NA |
| MW-10 | 02/09/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 7.63 | 91.36 | NA |
| MW-10 | 06/16/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 8.57 | 90.42 | NA |
| MW-10 | 08/24/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 9.61 | 89.38 | NA |

## WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-10 | 11/23/1993 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 10.10 | 88.89 | NA |
| MW-10 | 02/14/1994 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 9.01 | 89.98 | NA |
| MW-10 | 05/25/1994 | <50 | NA | <0.5 | 1.1 | <0.5 | 1.4 | NA | NA | 98.99 | 8.84 | 90.15 | NA |
| MW-10 | 08/04/1994 | NA | NA | NA | NA | NA | NA | NA | NA | 98.99 | 9.82 | 89.17 | NA |
| MW-10 | 11/08/1994 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 9.40 | 89.59 | NA |
| MW-10 | 02/01/1995 | NA | NA | NA | NA | NA | NA | NA | NA | 98.99 | 6.78 | 92.21 | NA |
| MW-10 | 05/04/1995 | NA | NA | NA | NA | NA | NA | NA | NA | 98.99 | 7.00 | 91.99 | NA |
| MW-10 | 05/16/1997 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 98.99 | 8.66 | 90.33 | NA |
| MW-10 | 11/03/1997 | NA | NA | NA | NA | NA | NA | NA | NA | 98.99 | 9.37 | 89.62 | NA |
| MW-10 | 06/05/1998 | NA | NA | NA | NA | NA | NA | NA | NA | 98.99 | 7.27 | 91.72 | NA |
| MW-10 | 11/06/1998 | NA | NA | NA | NA | NA | NA | NA | NA | 98.99 | 9.48 | 89.51 | NA |
| MW-10 | 06/07/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 98.99 | 8.72 | 90.27 | NA |
| MW-10 | 08/27/1999 | <50.0 | NA | <0.500 | <0.500 | <0.500 | <0.500 | <5.00 | <2.00 | 98.99 | 8.62 | 90.37 | 1.6/1.6 |
| MW-10 | 11/11/1999 | NA | NA | NA | NA | NA | NA | NA | NA | 98.99 | 8.55 | 90.44 | NA |
| MW-10 | 04/26/2000 | NA | NA | NA | NA | NA | NA | NA | NA | 98.99 | 7.39 | 91.60 | NA |
| MW-10 | 11/02/2000 | NA | NA | NA | NA | NA | NA | NA | NA | 98.99 | 8.26 | 90.73 | NA |
| MW-10 | 05/31/2001 | NA | NA | NA | NA | NA | NA | NA | NA | 98.99 | 7.98 | 91.01 | NA |
| **MW-10** | **11/19/2001** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **NA** | **98.99** | **9.34** | **89.65** | **NA** |

# WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8260B; prior to May 31, 2001 analyzed by EPA Method 8015
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015
BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to May 31, 2001, analyzed by EPA Method 8020
MTBE = methyl-tertiary-butyl ether
TOC = Top of Casing Elevation
GW = Groundwater
DO = Dissolved Oxygen
ug/L = parts per billion
msl = Mean sea level
ft = Feet
<n = Below detection limit
D = Duplicate sample
NA = Not Applicable
n/n = 1st case volume/3rd case volume D.O.'s
ppm = parts per million

# WELL CONCENTRATIONS
## Shell-Branded Service Station
## 630 High Street
## Oakland, CA
## WIC #204-5508-5801

| Well ID | Date | TPPH (ug/L) | TEPH (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | X (ug/L) | MTBE 8020 (ug/L) | MTBE 8260 (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Notes:

a =Compounds detected and calculated as TEPH do not match the diesel standard; pattern is characteristic of weathered diesel.

b =Concentration reported as TEPH is primarily due to the presence of a lighter petroleum product, possibly gasoline or kerosene.

c =Concentration reported as TEPH is primarily due to a heavier petroleum product, possibly motor oil or aged diesel fuel.

d =Compounds detected within the TEPH range are not characteristic of the standard diesel chromatographic pattern.

e =Concentration reported as TPPH is primarily due to the presence of a discrete hydrocarbon peak not indicative of gasoline.

f =26 ug/L benzene detected using EPA Method 8240.

g =The concentration reported as TPPH is due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.

h =Compounds detected and calculated as TPPH appear to be the less volatile constituents of gasoline.

i =Sample diluted due to high-non hydrocarbon peak.

j =The positive result has an atypical pattern for gasoline analysis.

k =Field measurement of DO concentrations before and after well purging.

l = This sample was analyzed outside of EPA recommended holding time.

KIFF ANALYTICAL LLC

Report Number : 23496
Date : 11/30/2001

Nick Sudano
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 5 Water Samples
Project Name : 630 High Street, Oakland
Project Number : 011119-MN2
P.O. Number : 98995751

Dear Mr. Sudano,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 23496
Date : 11/30/2001

Project Name : **630 High Street, Oakland**
Project Number : **011119-MN2**

Sample : **MW-1** Matrix : Water Lab Number : 23496-01
Sample Date :11/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **41** | 2.0 | ug/L | EPA 8260B | 11/26/2001 |
| **Toluene** | **4.9** | 2.0 | ug/L | EPA 8260B | 11/26/2001 |
| **Ethylbenzene** | **10** | 2.0 | ug/L | EPA 8260B | 11/26/2001 |
| **Total Xylenes** | **25** | 2.0 | ug/L | EPA 8260B | 11/26/2001 |
| **Methyl-t-butyl ether (MTBE)** | **710** | 20 | ug/L | EPA 8260B | 11/26/2001 |
| **TPH as Gasoline** | **6100** | 200 | ug/L | EPA 8260B | 11/26/2001 |
| Toluene - d8 (Surr) | 96.7 | | % Recovery | EPA 8260B | 11/26/2001 |
| 4-Bromofluorobenzene (Surr) | 111 | | % Recovery | EPA 8260B | 11/26/2001 |

Joel Kiff

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 23496
Date : 11/30/2001

Project Name : **630 High Street, Oakland**
Project Number : **011119-MN2**

Sample : **MW-3** Matrix : Water Lab Number : 23496-02
Sample Date :11/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **440** | 5.0 | ug/L | EPA 8260B | 11/28/2001 |
| **Toluene** | **7.8** | 5.0 | ug/L | EPA 8260B | 11/28/2001 |
| **Ethylbenzene** | **8.6** | 5.0 | ug/L | EPA 8260B | 11/28/2001 |
| **Total Xylenes** | **23** | 5.0 | ug/L | EPA 8260B | 11/28/2001 |
| **Methyl-t-butyl ether (MTBE)** | **3400** | 5.0 | ug/L | EPA 8260B | 11/28/2001 |
| **Diisopropyl ether (DIPE)** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 11/28/2001 |
| **Ethyl-t-butyl ether (ETBE)** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 11/28/2001 |
| **Tert-amyl methyl ether (TAME)** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 11/28/2001 |
| **Tert-Butanol** | **230** | 50 | ug/L | EPA 8260B | 11/28/2001 |
| **Ethanol** | **< 500** | 500 | ug/L | EPA 8260B | 11/28/2001 |
| **TPH as Gasoline** | **3200** | 500 | ug/L | EPA 8260B | 11/28/2001 |
| Toluene - d8 (Surr) | 98.8 | | % Recovery | EPA 8260B | 11/28/2001 |
| 4-Bromofluorobenzene (Surr) | 104 | | % Recovery | EPA 8260B | 11/28/2001 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 23496
Date : 11/30/2001

Project Name : **630 High Street, Oakland**
Project Number : **011119-MN2**

Sample : **MW-5** Matrix : Water Lab Number : 23496-03
Sample Date :11/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **2.8** | 0.50 | ug/L | EPA 8260B | 11/25/2001 |
| **Toluene** | **1.4** | 0.50 | ug/L | EPA 8260B | 11/25/2001 |
| **Ethylbenzene** | **2.3** | 0.50 | ug/L | EPA 8260B | 11/25/2001 |
| **Total Xylenes** | **8.5** | 0.50 | ug/L | EPA 8260B | 11/25/2001 |
| **Methyl-t-butyl ether (MTBE)** | **57** | 5.0 | ug/L | EPA 8260B | 11/25/2001 |
| **TPH as Gasoline** | **850** | 50 | ug/L | EPA 8260B | 11/25/2001 |
| Toluene - d8 (Surr) | 102 | | % Recovery | EPA 8260B | 11/25/2001 |
| 4-Bromofluorobenzene (Surr) | 114 | | % Recovery | EPA 8260B | 11/25/2001 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 23496
Date : 11/30/2001

Project Name : **630 High Street, Oakland**
Project Number : **011119-MN2**

Sample : **MW-6** Matrix : Water Lab Number : 23496-04

Sample Date :11/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **5.0** | 5.0 | ug/L | EPA 8260B | 11/26/2001 |
| **Toluene** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 11/26/2001 |
| **Ethylbenzene** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 11/26/2001 |
| **Total Xylenes** | **18** | 5.0 | ug/L | EPA 8260B | 11/26/2001 |
| **Methyl-t-butyl ether (MTBE)** | **2600** | 5.0 | ug/L | EPA 8260B | 11/26/2001 |
| **Diisopropyl ether (DIPE)** | **26** | 5.0 | ug/L | EPA 8260B | 11/26/2001 |
| **Ethyl-t-butyl ether (ETBE)** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 11/26/2001 |
| **Tert-amyl methyl ether (TAME)** | **< 5.0** | 5.0 | ug/L | EPA 8260B | 11/26/2001 |
| **Tert-Butanol** | **75** | 50 | ug/L | EPA 8260B | 11/26/2001 |
| **Ethanol** | **< 500** | 500 | ug/L | EPA 8260B | 11/26/2001 |
| **TPH as Gasoline** | **< 500** | 500 | ug/L | EPA 8260B | 11/26/2001 |
| Toluene - d8 (Surr) | 99.5 | | % Recovery | EPA 8260B | 11/26/2001 |
| 4-Bromofluorobenzene (Surr) | 102 | | % Recovery | EPA 8260B | 11/26/2001 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 23496
Date : 11/30/2001

Project Name : **630 High Street, Oakland**
Project Number : **011119-MN2**

Sample : **MW-7** Matrix : Water Lab Number : 23496-05
Sample Date :11/19/2001

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **0.64** | 0.50 | ug/L | EPA 8260B | 11/27/2001 |
| **Toluene** | **0.86** | 0.50 | ug/L | EPA 8260B | 11/27/2001 |
| **Ethylbenzene** | **1.6** | 0.50 | ug/L | EPA 8260B | 11/27/2001 |
| **Total Xylenes** | **6.1** | 0.50 | ug/L | EPA 8260B | 11/27/2001 |
| **Methyl-t-butyl ether (MTBE)** | **7.3** | 5.0 | ug/L | EPA 8260B | 11/27/2001 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 11/27/2001 |
| Toluene - d8 (Surr) | 103 | | % Recovery | EPA 8260B | 11/27/2001 |
| 4-Bromofluorobenzene (Surr) | 113 | | % Recovery | EPA 8260B | 11/27/2001 |

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 23496
Date : 11/30/2001

Project Name : **630 High Street, Oakland**
Project Number : **011119-MN2**

23496 Quality Control Data - Method Blank

| Parameter | Measured Value | Method Reporting Limit | Units | Analysis Method | Date Analyzed |
|---|---|---|---|---|---|
| **Benzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/24/2001 |
| **Toluene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/24/2001 |
| **Ethylbenzene** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/24/2001 |
| **Total Xylenes** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/24/2001 |
| **Methyl-t-butyl ether (MTBE)** | **< 0.50** | 0.50 | ug/L | EPA 8260B | 11/24/2001 |
| **Diisopropyl ether (DIPE)** | **< 2.0** | 2.0 | ug/L | EPA 8260B | 11/24/2001 |
| **Ethyl-t-butyl ether (ETBE)** | **< 2.0** | 2.0 | ug/L | EPA 8260B | 11/24/2001 |
| **Tert-amyl methyl ether (TAME)** | **< 2.0** | 2.0 | ug/L | EPA 8260B | 11/24/2001 |
| **Tert-Butanol** | **< 50** | 50 | ug/L | EPA 8260B | 11/24/2001 |
| **Ethanol** | **< 500** | 500 | ug/L | EPA 8260B | 11/24/2001 |
| **TPH as Gasoline** | **< 50** | 50 | ug/L | EPA 8260B | 11/24/2001 |
| Toluene - d8 (Surr) | 99.2 | | % Recovery | EPA 8260B | 11/24/2001 |
| 4-Bromofluorobenzene (Surr) | 103 | | % Recovery | EPA 8260B | 11/24/2001 |

Approved By: Joel Kiff

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Report Number : 23496

Date : 11/30/2001

Project Name : **630 High Street, Oakland**

Project Number : **011119-MN2**

| Parameter | Spiked Sample | Sample Value | Spike Level | Spike Dup. Level | Spiked Sample Value | Duplicate Spiked Sample Value | Units | Analysis Method | Date Analyzed | Spiked Sample Percent Recov. | Duplicate Spiked Sample Percent Recov. | Relative Percent Diff. | Spiked Sample Percent Recov. Limit | Relative Percent Diff. Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spike Recovery Data | | | | | | | | | | | | | | |
| Benzene | 23492-01 | <0.50 | 19.9 | 19.7 | 20.1 | 19.6 | ug/L | EPA 8260B | 11/24/2001 | 101 | 99.4 | 1.35 | 70-130 | 25 |
| Toluene | 23492-01 | <0.50 | 19.9 | 19.7 | 20.3 | 20.0 | ug/L | EPA 8260B | 11/24/2001 | 102 | 102 | 0.319 | 70-130 | 25 |
| Tert-Butanol | 23492-01 | <5.0 | 99.7 | 98.7 | 107 | 107 | ug/L | EPA 8260B | 11/24/2001 | 107 | 108 | 0.668 | 70-130 | 25 |
| Methyl-t-Butyl Ether | 23492-01 | <0.50 | 19.9 | 19.7 | 19.3 | 18.6 | ug/L | EPA 8260B | 11/24/2001 | 96.8 | 94.3 | 2.62 | 70-130 | 25 |

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 23496

**QC Report : Laboratory Control Sample (LCS)**

Date : 11/30/2001

Project Name : **630 High Street, Oakland**

Project Number : **011119-MN2**

| Parameter | Spike Level | Units | Analysis Method | Date Analyzed | LCS Percent Recov. | LCS Percent Recov. Limit |
|---|---|---|---|---|---|---|
| Benzene | 40.0 | ug/L | EPA 8260B | 11/24/200 | 102 | 70-130 |
| Toluene | 40.0 | ug/L | EPA 8260B | 11/24/200 | 104 | 70-130 |
| Tert-Butanol | 200 | ug/L | EPA 8260B | 11/24/200 | 107 | 70-130 |
| Methyl-t-Butyl Ether | 40.0 | ug/L | EPA 8260B | 11/24/200 | 94.2 | 70-130 |

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

LAB: Kiff

# EQUIVA Services LLC Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

**Equiva Project Manager to be invoiced:**

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

Karen Petryna

23496

INCIDENT NUMBER (S&E ONLY): 98995751

SAP/eCRMT NUMBER (TS/CRMT):

DATE: 11/19/01

PAGE: 1 of 1

| SAMPLING COMPANY: | LOG CODE: | SITE ADDRESS (Street and City): | GLOBAL ID NO.: |
|---|---|---|---|
| Blaine Tech Services | BTSS | 630 High Street, Oakland | T0600101273 |

| ADDRESS: | EDF DELIVERABLE TO (Responsible Party or Designee): | PHONE NO.: | E-MAIL: | CONSULTANT PROJECT NO.: |
|---|---|---|---|---|
| 1680 Rogers Avenue, San Jose, CA 95112 | Anni Kreml | 510-420-3335 | akreml@cambria-env.com | BTS # 011119-MNZ |

| PROJECT CONTACT (Hardcopy or PDF Report to): | | | SAMPLER NAME(S) (Print): | LAB USE ONLY |
|---|---|---|---|---|
| Nick Sudano | | | Michael Nimokaita | |
| TELEPHONE: 408-573-0555 | FAX: 408-573-7771 | E-MAIL: nsudano@blainetech.com | | |

TURNAROUND TIME (BUSINESS DAYS): ☑ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C°

**REQUESTED ANALYSIS**

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | NO. OF CONT. | TPH - Gas, Purgeable | BTEX | MTBE (8021B - 5ppb RL) | MTBE (8260B - 0.5ppb RL) | Oxygenates (5) by (8260B) | Ethanol (8260B) | Methanol | 1,2-DCA (8260B) | EDB (8260B) | TPH - Diesel, Extractable (8015m) | MTBE (8260B) Confirmation, See Note | FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-1 | 11/19/01 | 1225 | W | 3 | X | X | X | | | | | | | | | -01 |
| | MW-3 | | 1150 | | | X | X | | | X | X | | | | | | -02 |
| | MW-5 | | 1100 | | | X | X | X | | | | | | | | | -03 |
| | MW-6 | | 1120 | | | X | X | | | X | X | | | | | | -04 |
| | MW-7 | | 1135 | | | X | X | X | | | | | | | | | -05 |
| | | | | | | | | | | | | | | | | | |
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| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | | | |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
| | | | |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
| | John Cottle/Kiff Analytical | 112001 | 1250 |

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

Q&Q Graphic (714) 888-9702

10/16/00 Revision

# WELL GAUGING DATA

Project # 061119-MM2 Date 11/19/01 Client Equiva

Site 630 High St - Oakland 98995751

| Well ID | Well Size (in.) | Sheen / Odor | Depth to Immiscible Liquid (ft.) | Thickness of Immiscible Liquid (ft.) | Volume of Immiscibles Removed (ml) | Depth to water (ft.) | Depth to well bottom (ft.) | Survey Point: TOB or TOC | |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 4 | | | | | 10.09 | 13.70 | | S |
| MW-2 | 4 | | | | | 11.63 | 19.21 | | |
| MW-3 | 4 | | | | | 10.29 | 17.26 | | S |
| MW-4 | 4 | | | | | 9.98 | 11.81 | | |
| MW-5 | 4 | | | | | 10.88 | 17.75 | | S |
| MW-6 | 4 | | | | | 9.48 | 19.30 | | S |
| MW-7 | 4 | | | | | 9.11 | 19.41 | | S |
| MW-8 | 4 | | | | | 7.70 | 20.53 | | |
| MW-9 | 4 | | | | | 8.40 | 11.45 | | |
| MW-10 | 4 | | | | | 9.34 | 12.48 | | |
| | | | | | | | | | |
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# EQUIVA WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 011119-MNR | Site: 9899757 |
| Sampler: Mike K | Date: 11/19/01 |
| Well I.D.: MW-1 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth: 13.70 | Depth to Water: 10.09 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

Purge Method:
- ✓ Bailer
- Disposable Bailer
- Middleburg
- ✓ ~~Electric Submersible~~
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: ✓ Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

2.3 (Gals.) X 3 = 6.9 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1209 | 70.3 | 6.8 | 2131 | 91 | 2.3 | slightly cloudy, strong odor. |
| 1214 | 71.6 | 6.8 | 2100 | 86 | 4.6 | " " " |
| 1219 | 71.7 | 6.8 | 2157 | 97 | 6.9 | " " " |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes (No) Gallons actually evacuated: 6.9

Sampling Time: 1225 Sampling Date: 11/19/01

Sample I.D.: MW-1 Laboratory: Sequoia Columbia Other KAI

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

| | | | | | |
|---|---|---|---|---|---|
| D.O. (if req'd): | ~~Pre-purge:~~ | 1.2 mg/L | ~~Post-purge:~~ | 0.8 mg/L | |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV | |

# EQUIVA WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 011119-MNP | Site: 98995757 |
| Sampler: Mike N | Date: 11/19/01 |
| Well I.D.: MW-3 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth: 17.26 | Depth to Water: 10.29 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

Purge Method:
- Bailer
- Disposable Bailer
- ✓ Middleburg
- ✓ Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: ✓ Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

4.6 (Gals.) X 3 = 13.8 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1140 | 69.8 | 7.0 | 1252 | 51 | 4.6 | Clear, odor |
| 1143 | 71.0 | 6.9 | 1124 | 43 | 9.2 | " " |
| 1144 | 71.1 | 6.8 | 1109 | 38 | 13.8 | " " |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes (No) Gallons actually evacuated: 13.8

Sampling Time: 1150 Sampling Date: 11/19/01

Sample I.D.: MW-3 Laboratory: Sequoia Columbia Other Kiff

Analyzed for: TPH-G BTEX MTBE TPH-D Other: Oxygenates & Methanol by 8260

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

| | | | | |
|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | 3.1 mg/L | Post-purge: | 1.5 mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# EQUIVA WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 011119-MNR | Site: 8899575 |
| Sampler: Mike R | Date: 11/19/01 |
| Well I.D.: MW-5 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth: 17.75 | Depth to Water: 10.88 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

Purge Method:
- Bailer
- Disposable Bailer
- Middleburg
- ✓ Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: ✓ Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

4.5 (Gals.) X 3 = 13.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1051 | 67.7 | 6.7 | 1222 | 24 | 4.5 | Clear, slight odor |
| 1054 | 69.1 | 6.8 | 1221 | 21 | 9.0 | " " |
| 1055 | 71.0 | 6.8 | 1209 | 23 | 13.5 | " " |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes (No) Gallons actually evacuated: 13.5

Sampling Time: 1100 Sampling Date: 11/19/01

Sample I.D.: MW-5 Laboratory: Sequoia Columbia Other KIFF

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

| | | | | | |
|---|---|---|---|---|---|
| D.O. (if req'd): | Pre-purge: | 2.6 mg/L (1st) | Post-purge: | 1.9 mg/L (2nd) |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: | mV |

# EQUIVA WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 01119-MNR | Site: 98945757 |
| Sampler: Mike K/ | Date: 11/19/01 |
| Well I.D.: MW-6 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth: 19.30 | Depth to Water: 7.48 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

Purge Method:
- Bailer
- Disposable Bailer
- ✓ Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: ✓ Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

6.4 (Gals.) X 3 = 18.2 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1110 | 70.8 | 7.1 | 1643 | 40 | 6.4 | clear |
| 1113 | 72.6 | 6.8 | 1366 | 47 | 12.8 | " |
| 1114 | 73.6 | 6.8 | 1093 | 42 | 18.2 | " |
| 1115 | 74.2 | 6.8 | 1059 | 41 | 24.6 | " |
| | | | | | | |

| | | | |
|---|---|---|---|
| Did well dewater? Yes (No) | | Gallons actually evacuated: 24.6 | |
| Sampling Time: 1120 | | Sampling Date: 11/19/01 | |
| Sample I.D.: MW-6 | | Laboratory: Sequoia Columbia Other Kiff | |
| Analyzed for: ~~TPH-G~~ BTEX ~~MTBE~~ TPH-D | | Other: oxygenates + Ethanol by 8260 | |
| EB I.D. (if applicable): @ Time | | Duplicate I.D. (if applicable): | |
| Analyzed for: TPH-G BTEX MTBE TPH-D | | Other: | |
| D.O. (if req'd): | ~~Pre-purge~~ 1st: 2.5 mg/L | ~~Post-purge~~ 3rd: 1.9 | mg/L |
| O.R.P. (if req'd): | Pre-purge: mV | Post-purge: | mV |

# EQUIVA WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 011119-MNP | Site: 8899575 |
| Sampler: Mike K | Date: 11/19/01 |
| Well I.D.: MW-7 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth: 19.41 | Depth to Water: 9.11 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): (YSI) HACH |

Purge Method:
- Bailer
- Disposable Bailer
- ✓ Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: ✓ Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

6.7 (Gals.) X 3 = 20.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

| Well Diameter | Multiplier | Well Diameter | Multiplier |
|---|---|---|---|
| 1" | 0.04 | 4" | 0.65 |
| 2" | 0.16 | 6" | 1.47 |
| 3" | 0.37 | Other | radius² * 0.163 |

| Time | Temp (°F) | pH | Cond. | Turbidity | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 1126 | 69.7 | 7.0 | 1112 | 37 | 6.7 | clear |
| 1129 | 69.4 | 6.9 | 1115 | 34 | 13.4 | " |
| 1130 | 69.8 | 6.9 | 1116 | 31 | 20.1 | " |
| | | | | | | |
| | | | | | | |

| | | | |
|---|---|---|---|
| Did well dewater? Yes (No) | | Gallons actually evacuated: 20.1 | |
| Sampling Time: 1135 | | Sampling Date: 11/19/01 | |
| Sample I.D.: MW-7 | | Laboratory: Sequoia Columbia Other Kiff | |
| Analyzed for: TPH-G BTEX MTBE TPH-D | | Other: | |
| EB I.D. (if applicable): @ Time | | Duplicate I.D. (if applicable): | |
| Analyzed for: TPH-G BTEX MTBE TPH-D | | Other: | |
| D.O. (if req'd): | Pre-purge: 1st 2.6 mg/L | Post-purge: 3rd 2.1 | mg/L |
| O.R.P. (if req'd): | Pre-purge: | mV | Post-purge: mV |