**Denis L. Brown**
**Shell Oil Products US**
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
**Tel** (707) 865 0251
**Fax** (707) 865 2542
**Email** denis.l.brown@shell.com

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

Re: Former Shell Service Station
4411 Foothill Boulevard
Oakland, California
SAP Code 135686
Incident No. 98995746
Agency Site No. RO0415

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown
Project Manager

# GROUNDWATER MONITORING REPORT – THIRD QUARTER 2008

## FORMER SHELL SERVICE STATION
## 4411 FOOTHILL BOULEVARD
## OAKLAND, CALIFORNIA

**SAP CODE** 135686
**INCIDENT NO.** 98995746
**AGENCY NO.** RO0000415


**Prepared by:**
**Conestoga-Rovers & Associates**

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

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web: http:\\www.CRAworld.com



**NOVEMBER 21, 2008**
**REF. NO. 240897 (1)**
This report is printed on recycled paper.

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## LIST OF FIGURES
(Following Text)



## LIST OF APPENDICES

## 1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) in accordance with the quarterly reporting requirements of 23 CCR 2652d.

### 1.1 SITE INFORMATION

| | |
|---|---|
| Site Address | 4411 Foothill Boulevard, Oakland |
| Site Use | Strip Mall |
| Shell Project Manager | Denis Brown |
| CRA Project Manager | Peter Schaefer |
| Lead Agency and Contact | ACHCSA, Jerry Wickham |
| Agency Case No. | RO0000415 |
| Shell SAP Code | 135686 |
| Shell Incident No. | 98995746 |

Date of most recent agency correspondence was August 15, 2008.

## 2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

### 2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for this site.

CRA prepared a vicinity map (Figure 1) and a groundwater contour and chemical concentration map (Figure 2). Blaine's report, presenting the analytical data, is included in Appendix A.

### 2.2 CURRENT QUARTER'S FINDINGS

| | |
|---|---|
| Groundwater Flow Direction | Southeasterly |
| Hydraulic Gradient | 0.014 |
| Depth to Water | 9.10 to 10.00 feet below top of well casing |

### 2.3 PROPOSED ACTIVITIES FOR NEXT QUARTER

CRA installed on-site vapor probes V-8 and V-9 on October 14, 2008 and sampled on-site soil vapor probes V-1 through V-11 on October 22 and 23, 2008. CRA submitted a *Soil Vapor Probe Installation and Sampling Report* on November 14, 2008.

Blaine will gauge and sample wells according to the established monitoring program for this site.

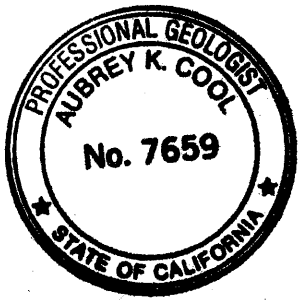
Off-site wells S-10, S-11, and S-12 and soil vapor probe V-12 will be installed after the adjacent off-site property has been redeveloped into a parking lot and the associated paving has been completed. As of November 11, 2008, work on the parking lot was in progress, and on-site workers indicated that it would likely be completed by the end of November 2008.

Due to reluctance of the property owner at 4320 Bond Street to allow access to their property to install wells, an access request was sent to the owners of 1724/1726/1728 High Street on May 20, 2008. As of this date, the property owners of 1724/1726/1728 High Street have not responded.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

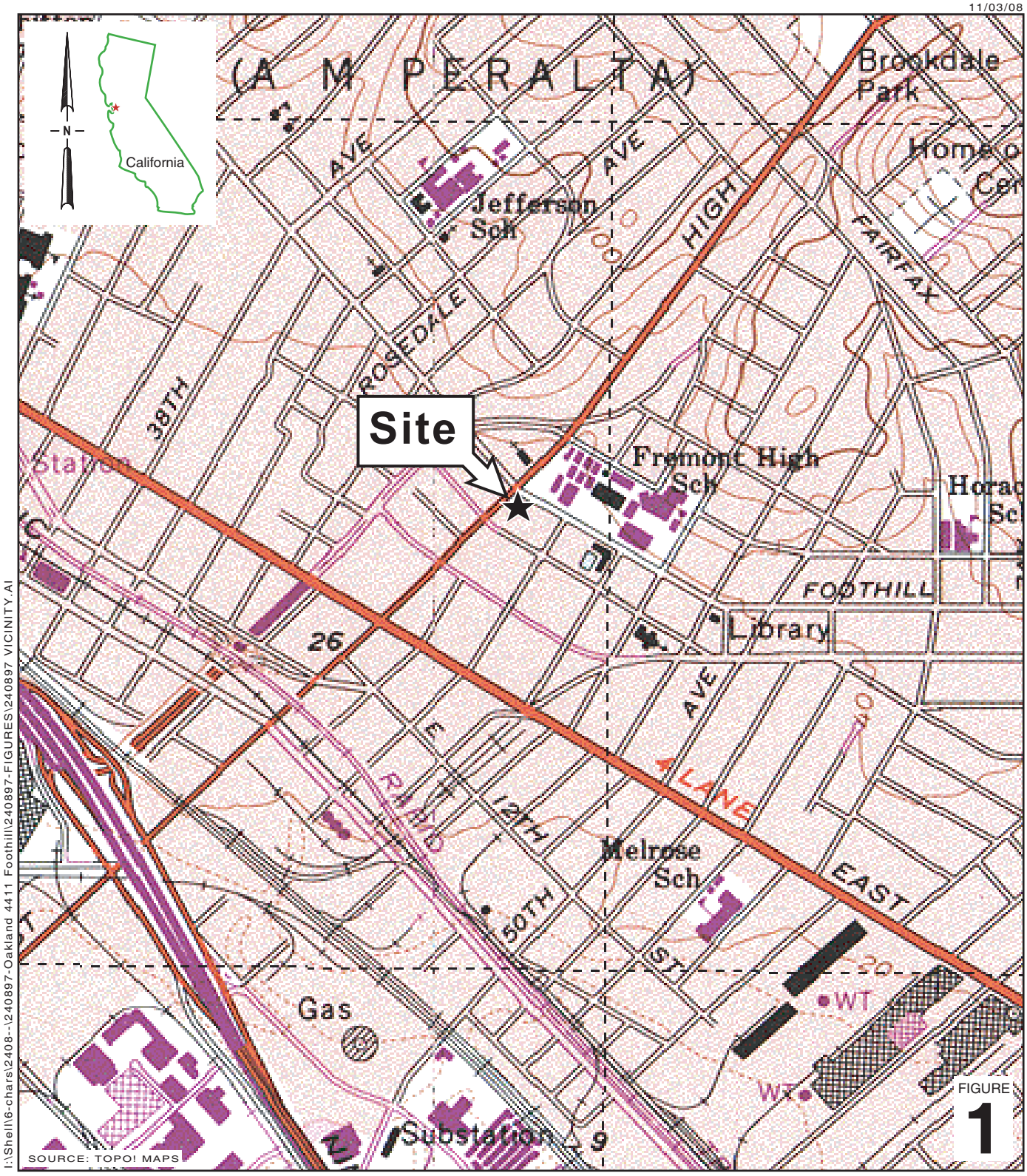
Peter Schaefer, CHG, CEG
Project Manager

Aubrey K. Cool, PG
Professional Geologist



FIGURES

11/03/08




I:\Shell\6-chars\2408--\240897-Oakland 4411 Foothill\240897-FIGURES\240897 VICINITY.AI

FIGURE 1

0 1/6 1/3 1/2 1

SCALE : 1" = 1/6 MILE

**Former Shell Service Station**
4411 Foothill Boulevard
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

**Vicinity Map**

11/21/08

# Groundwater Contour and Chemical Concentration Map

August 12, 2008

HIGH STREET

FOOTHILL BOULEVARD

4411 Foothill

Former Shell Station
*4411 Foothill*

BLDG. A

Wood Moulding & Doors
*4413 Foothill*

Laundromat

Third-Generation USTs
(1984 to 2002)

Former Dispenser Islands

4415 Foothill

4417 Foothill

BLDG. B

4419 Foothill

Parking

Jackson & Hewitt Tax Services
*4421 Foothill*

Nails & Spa
*4423 Foothill*

Former Building

Restaurant

Former W/O UST
(removed 2002)

Residential
*1724 High St.*

Residential
*4320 Bond St.*

First- and Second-Generation USTs
(~1958 to 1984)

Trash Encl.

Planter

Unknown Utility

CB

FH

28.40

28.10

27.80

S-1 S-2 S-3 S-4 S-5 S-6 S-7 S-8 S-9 S-10 S-11 S-12

V-1 V-2 V-3 V-4 V-5 V-6 V-7 V-8 V-9 V-10 V-11 V-12

BW-A

| Well | ELEV. | Benzene | MTBE |
|---|---|---|---|
| S-6 | 28.65 | 890 | 71 |
| S-7 | 27.77 | 25,000 | NDa |
| S-8 | 27.95 | 9,300 | 210 |
| S-9 | 27.52 | 16 | NDa |

## EXPLANATION

- V-12 — Proposed soil vapor probe
- S-10 — Proposed monitoring well location
- V-1 — Soil vapor probe location
- S-6 — Monitoring well location
- S-1 — Destroyed monitoring well location
- BW-A — Destroyed tank backfill well location
- Electrical line (E)
- Telecommunications line (T)
- Gas line (GAS)
- Water line (W)
- Sanitary Sewer line (SAN)
- Storm drain line (STM)
- FH — Fire hydrant
- CB — Catch basin
- Manhole
- Power pole
- Flow direction
- Groundwater flow direction and gradient
- XX.XX — Groundwater elevation contour, in feet above mean sea level (msl)
- Well designation
- ELEV. — Groundwater elevation, in feet above msl
- Benzene and MTBE concentrations are in parts per billion

**Notes:**
**NDa =** Elevated reporting limit; see laboratory report for details

N

0 10 20 40
Scale (ft)

FIGURE
**2**

**Former Shell Service Station**
4411 Foothill Boulevard
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

I:\Shell\6-chars\2408-\240897-Oakland 4411 Foothill\240897-REPORTS\240897-RPT1-3q08qm\240897 3QM08.DWG

# APPENDIX A

# BLAINE TECH SERVICES, INC. – GROUNDWATER MONITORING REPORT

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

September 2, 2008

Denis Brown
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

Third Quarter 2008 Groundwater Monitoring at
Former Shell Service Station
4411 Foothill Boulevard
Oakland, CA

Monitoring performed on August 12, 2008

Groundwater Monitoring Report **080812-WL-1**

This report covers the routine monitoring of groundwater wells at this former 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,

Mike Ninokata
Project Manager

MN/tm

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

cc: Anni Kreml
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

# WELL CONCENTRATIONS
## Former Shell Service Station
## 4411 Foothill Boulevard
## Oakland, CA

| 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) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1 | 12/18/1992 | 41,000 | NA | 3,100 | 1,100 | 1,200 | 8,700 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 9.06 | NA | NA |
| S-1 | 5/26/1993 | 39,000 | 6,000 | 1,300 | 4,700 | 1,500 | 7,800 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | NA | NA | NA |
| S-1 | 5/28/1993 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 12.13 | 26.18 | NA |
| S-1 | 6/3/1993 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 8.89 | 29.42 | NA |
| S-1 | 6/8/1993 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 8.80 | 29.51 | NA |
| S-1 | 9/21/1993 | 34,000 | 5,900 | 480 | 5,000 | 3,800 | 18,000 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 10.40 | 27.91 | NA |
| S-1 | 12/14/1993 | 25,000 | 13,000 | 1,100 | 5,000 | 2,200 | 11,000 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 9.66 | 28.65 | NA |
| S-1 | 3/17/1994 | 57,000 | 1,600 | 1,300 | 5,400 | 2,100 | 11,000 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 8.20 | 30.11 | NA |
| S-1 | 6/16/1994 | 57,000 | 3,000 | 1,600 | 6,000 | 2,000 | 13,000 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 9.41 | 28.90 | NA |
| S-1 | 9/22/1994 | 39,000 | ND | 1,300 | 2,100 | 1,500 | 7,100 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 11.13 | 27.18 | NA |
| S-1 a | 12/15/1994 | 30,000 | 3,100 | 1,100 | 4,700 | 1,600 | 10,000 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 7.15 | 31.16 | NA |
| S-1 a,b | 3/30/1995 | 30,000 | 3,100 | 1,400 | 4,000 | 1,500 | 11,000 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 6.09 | 32.22 | NA |
| S-1 | 06/2019/95 | 28,000 | 2,100 | 1,100 | 2,300 | 1,100 | 8,300 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 7.30 | 31.01 | NA |
| S-1 | 9/20/1995 | 40,000 | 2,600 | 840 | 3,600 | 1,300 | 8,600 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 10.02 | 28.29 | NA |
| S-1 a | 12/6/1995 | 38,000 | 6,400 | 920 | 3,200 | 1,500 | 9,400 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 11.64 | 26.67 | NA |
| S-1 | 3/21/1996 | 48,000 | NA | 700 | 4,200 | 1,100 | 8,600 | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 6.87 | 31.44 | NA |
| S-1 | 9/6/1996 | 41,000 | 4,100 | 830 | 2,600 | 2,100 | 12,000 | <250 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 10.50 | 27.81 | NA |
| S-1 | 12/19/1996 | 40,000 | 2,500 | 540 | 3,100 | 1,900 | 9,800 | 920 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 8.24 | 30.07 | NA |
| S-1 | 3/17/1997 | 42,000 | 4,700 | 610 | 2,700 | 1,700 | 11,000 | 3,500 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 7.26 | 31.05 | NA |
| S-1 | 6/11/1997 | 28,000 | 4,000 | 540 | 960 | 1,300 | 5,300 | 220 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 10.69 | 27.62 | NA |
| S-1 (D) | 6/11/1997 | 30,000 | 3,900 | 580 | 1,000 | 1,400 | 5,400 | <125 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 10.69 | 27.62 | NA |
| S-1 | 9/17/1997 | 27,000 | 4,400 | 310 | 1,200 | 1,900 | 9,000 | 170 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 10.26 | 28.05 | NA |
| S-1 (D) | 9/17/1997 | 27,000 | 4,400 | 270 | 1,200 | 1,900 | 9,000 | 170 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 10.26 | 28.05 | NA |
| S-1 | 12/11/1997 | 21,000 | 3,400 | 350 | 820 | 1,500 | 6,500 | <125 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 6.96 | 31.35 | NA |
| S-1 | 3/16/1998 | 25,000 | 2,500 | 250 | 820 | 670 | 5,000 | <125 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 6.00 | 32.31 | NA |
| S-1 (D) | 3/16/1998 | 26,000 | NA | 250 | 840 | 720 | 5,100 | <125 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 6.00 | 32.31 | 5.3/3.7 |
| S-1 | 6/23/1998 | <1,000 | 230 | 280 | 14 | 23 | 15 | 6,100 | 7,800 | NA | NA | NA | NA | NA | NA | 38.31 | 6.31 | 32.00 | 3.8/2.4 |
| S-1 | 9/1/1998 | 26,000 | 2,300 | 370 | 620 | 1,300 | 33 | 1,400 | 120 | NA | NA | NA | NA | NA | NA | 38.31 | 9.17 | 29.14 | 1.4/2.6 |
| S-1 | 12/30/1998 | 29,900 | 1,970 | 174 | 732 | 1,680 | 5,740 | 182 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 8.99 | 29.32 | 1.6/2.0 |
| S-1 | 3/30/1999 | 14,200 | 1,150 | 1,360 | 260 | 1,070 | 3,580 | <500 | 90.0 | NA | NA | NA | NA | NA | NA | 38.31 | 6.10 | 32.21 | 1.2/1.8 |
| S-1 | 3/31/1999 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 38.31 | 7.84 | 30.47 | NA |
| S-1 | 6/14/1999 | 20,200 | 4,280 | 135 | 407 | 825 | 5,000 | 705 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 7.94 | 30.37 | 1.4/2.1 |
| S-1 | 9/30/1999 | 18,300 | 3,120 | 189 | 531 | 1,250 | 4,740 | 322 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 10.04 | 28.27 | 4.3/2.0 |
| S-1 | 12/22/1999 | 2,450 | 444 a | 50.2 | 97.5 | 139 | 458 | 133 | NA | NA | NA | NA | NA | NA | NA | 38.31 | 9.42 | 28.89 | 1.8/2.3 |

# WELL CONCENTRATIONS
## Former Shell Service Station
## 4411 Foothill Boulevard
## Oakland, CA

| 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) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-1 | 3/9/2000 | 1,230 d | 1,200 a | 21.2 d | 115 d | 116 d | 411 d | 45.1 d | NA | NA | NA | NA | NA | NA | NA | 38.30 | 6.21 | 32.09 | 2.0/2.9 |
| S-1 | 6/20/2000 | 755 | 352 a | 26.0 | 48.4 | 43.1 | 230 | 71.5 | NA | NA | NA | NA | NA | NA | NA | 38.30 | 9.18 | 29.12 | 2.0/2.4 |
| S-1 | 9/5/2000 | 2,980 | 783 a | 43.5 | 117 | 168 | 871 | 192 | NA | NA | NA | NA | NA | NA | NA | 38.30 | 10.14 | 28.16 | 0.6/0.3 |
| S-1 | 12/4/2000 | 399 | 238 a | 5.34 | 14.6 | 36.2 | 106 | 24.9 | NA | NA | NA | NA | NA | NA | NA | 38.30 | 10.10 | 28.20 | 8.6/9.8 |
| S-1 | 12/12/2000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 38.30 | 9.22 | 29.08 | NA |
| S-1 | 3/8/2001 | 2,940 | 1,390 a | 49.6 | 52.9 | 21.8 | 749 | 87.6 | NA | NA | NA | NA | NA | NA | NA | 38.30 | 5.84 | 32.46 | 2.7e |
| S-1 | 6/7/2001 | 10,000 | 1,400 | 120 | 370 | 680 | 2,400 | 150 | NA | NA | NA | NA | NA | NA | NA | 38.30 | 8.80 | 29.50 | 6.2/2.2 |
| S-1 | 9/13/2001 | 240 | <200 | 1.8 | 8.9 | 16 | 53 | NA | 17 | NA | NA | NA | NA | NA | NA | 38.30 | 10.25 | 28.05 | 7.8/8.9 |
| S-1 | 11/19/2001 | 1,400 | <300 | 14 | 42 | 110 | 260 | NA | 27 | NA | NA | NA | NA | NA | NA | 38.30 | 9.87 | 28.43 | 7.7/7.3 |
| S-1 | 3/18/2002 | 7,500 | <300 | 40 | 370 | 560 | 2,000 | NA | 20 | NA | NA | NA | NA | NA | NA | 38.30 | 5.08 | 33.22 | 5.6/6.1 |
| S-1 | 6/19/2002 | 1,000 | 180 | 4.7 | 36 | 68 | 250 | NA | 14 | NA | NA | NA | NA | NA | NA | 38.30 | 9.26 | 29.04 | NA |
| S-1 | 9/11/2002 | 2,100 | <350 | 8.1 | 68 | 180 | 820 | NA | 7.1 | NA | NA | NA | NA | NA | NA | 38.30 | 10.54 | 27.76 | 6.5 |
| S-1 | 12/11/2002 | 4,100 | <500 | 16 | 93 | 310 | 900 | NA | <20 | NA | NA | NA | NA | NA | NA | 38.04 | 9.97 | 28.07 | 8.0 |
| S-1 | 3/11/2003 | 14,000 | <1,600 | 71 | 470 | 1,000 | 3,300 | NA | <50 | NA | NA | NA | NA | NA | NA | 38.04 | 7.31 | 30.73 | 5.2 |
| S-1 | 6/10/2003 | 1,700 | 110 a | 7.7 | 44 | 190 | 340 | NA | 4.5 | NA | NA | NA | NA | NA | NA | 38.04 | 8.14 | 29.90 | 14.0 |
| S-1 | 9/9/2003 | 3,200 | 96 a | 11 | 110 | 350 | 1,100 | NA | 5.8 | NA | NA | NA | NA | NA | NA | 38.04 | 9.31 | 28.73 | 7.5 |
| S-1 | 12/9/2003 | 6,000 | 1,000 a | 20 | 170 | 530 | 1,700 | NA | 6.1 | NA | NA | NA | NA | NA | NA | 38.04 | 7.24 | 30.80 | 28.6 |
| S-1 | 3/9/2004 | 390 | 300 a | 5.8 | 30 | 67 | 160 | NA | 5.6 | NA | NA | NA | NA | NA | NA | 38.04 | 5.56 | 32.48 | 6.4 |
| S-1 | 6/8/2004 | 5,600 | 2,500 a | 11 | 140 | 660 | 1,900 | NA | 5.0 | NA | NA | NA | NA | NA | NA | 38.04 | 8.82 | 29.22 | 30.0 |
| S-1 | 9/7/2004 | <50 | 130 i | <0.50 | <0.50 | <0.50 | <1.0 | NA | 0.75 | <2.0 | <2.0 | <2.0 | <5.0 | NA | NA | 38.04 | 9.84 | 28.20 | 14.4 |
| S-1 | 12/6/2004 | Unable to sample | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 38.04 | 9.20 | 28.84 | NA |
| S-1 | 12/15/2004 | 560 | 120 i | 2.2 | 26 | 67 | 220 | NA | 1.4 | NA | NA | NA | NA | NA | NA | 38.04 | 5.39 | 32.65 | 31.7 |
| S-1 | 3/7/2005 | 12,000 | 460 i | 12 | 310 | 830 | 2,600 | NA | <5.0 | NA | NA | NA | NA | NA | NA | 38.04 | 5.77 | 32.27 | 16.1 |
| S-1 | 6/10/2005 | 13,000 | 1,200 i | 25 | 310 | 1,200 | 3,300 | NA | <10 | NA | NA | NA | NA | NA | NA | 38.04 | 5.39 | 32.65 | 0.17 |
| S-2 | 5/28/1993 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.51 | 29.28 | NA |
| S-2 | 6/3/1993 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.51 | 29.28 | NA |
| S-2 | 6/8/1993 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.57 | 29.22 | NA |
| S-2 | 6/29/1993 | 1,300 | NA | 290 | 35 | 38 | 130 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | NA | NA | NA |
| S-2 | 9/21/1993 | 3,300 | NA | 870 | 24 | 190 | 120 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 10.54 | 28.25 | NA |
| S-2 | 12/14/1993 | 1,300 | NA | 400 | 16 | 36 | 27 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.76 | 29.03 | NA |
| S-2 | 3/17/1994 | 4,500 | NA | 610 | 27 | 92 | 110 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.92 | 28.87 | NA |
| S-2 (D) | 3/17/1994 | 4,000 | NA | 610 | 26 | 93 | 120 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.92 | 28.87 | NA |
| S-2 | 6/16/1994 | 2,800 | NA | 690 | 45 | 97 | 140 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 10.11 | 28.68 | NA |

# WELL CONCENTRATIONS
## Former Shell Service Station
## 4411 Foothill Boulevard
## Oakland, CA

| 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) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-2 | 9/22/1994 | 4,000 | NA | 630 | 94 | 64 | 230 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 10.51 | 28.28 | NA |
| S-2 | 12/15/1994 | 1,600 | NA | 450 | 300 | 67 | 130 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.12 | 29.67 | NA |
| S-2 b | 3/30/1995 | 8,200 | NA | 2,800 | 190 | 240 | 700 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 7.86 | 30.93 | NA |
| S-2 | 06/20/1995 | 9,600 | NA | 2,600 | 160 | 170 | 500 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.51 | 29.28 | NA |
| S-2 | 9/20/1995 | 4,200 | NA | 920 | 45 | 98 | 140 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 10.06 | 28.73 | NA |
| S-2 | 12/6/1995 | <5,000 | NA | 790 | 67 | 64 | 130 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 10.52 | 28.27 | NA |
| S-2 | 3/21/1996 | 3,700 | NA | 850 | 45 | 96 | 170 | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 8.60 | 30.19 | NA |
| S-2 | 9/6/1996 | 2,400 | NA | 500 | 33 | 39 | 84 | 490 | NA | NA | NA | NA | NA | NA | NA | 38.79 | 10.50 | 28.29 | NA |
| S-2 | 12/19/1996 | 1,200 | NA | 330 | 15 | 24 | 31 | 430 | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.40 | 29.39 | NA |
| S-2 | 3/17/1997 | 4,100 | NA | 780 | 42 | 110 | 120 | 2,200 | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.82 | 28.97 | NA |
| S-2 | 6/11/1997 | 760 | NA | 120 | <5.0 | 7.0 | 7.6 | 900 | NA | NA | NA | NA | NA | NA | NA | 38.79 | 10.18 | 28.61 | NA |
| S-2 | 9/17/1997 | 1,500 | NA | 230 | 8.6 | 40 | 27 | 480 | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.90 | 28.89 | NA |
| S-2 | 12/11/1997 | 1,300 | NA | 240 | 15 | 33 | 57 | 280 | NA | NA | NA | NA | NA | NA | NA | 38.79 | 8.27 | 30.52 | NA |
| S-2 | 3/16/1998 | 1,100 | NA | 830 | 48 | <10 | <10 | 4,700 | 4,800 | NA | NA | NA | NA | NA | NA | 38.79 | 7.97 | 30.82 | 7.0/4.3 |
| S-2 | 6/23/1998 | 720 | NA | 46 | 6.8 | 50 | 68 | 50 | 8.8 | NA | NA | NA | NA | NA | NA | 38.79 | 8.20 | 30.59 | 4.2/3.8 |
| S-2 (D) | 6/23/1998 | 810 | NA | 49 | 7.1 | 50 | 70 | 49 | 8.8 | NA | NA | NA | NA | NA | NA | 38.79 | 8.20 | 30.59 | 4.2/3.8 |
| S-2 | 9/1/1998 | <2,000 | NA | 170 | <20 | <20 | <20 | 9,300 | 12,000 | NA | NA | NA | NA | NA | NA | 38.79 | 9.85 | 28.94 | 1.9/1.6 |
| S-2 | 12/30/1998 | <5,000 | NA | 369 | <50 | <50 | <50 | 14,300 | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.84 | 28.95 | 2.0/1.8 |
| S-2 | 3/30/1999 | <2,000 | NA | 234 | <20.0 | 27.4 | 36.9 | 49,200 | 53,000 | NA | NA | NA | NA | NA | NA | 38.79 | 8.41 | 30.38 | 2.1/1.8 |
| S-2 | 3/31/1999 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 38.79 | 8.67 | 30.12 | NA |
| S-2 | 6/14/1999 | <1,000 | NA | 175 | <10.0 | <10.0 | 11.1 | 67,500 | NA | NA | NA | NA | NA | NA | NA | 38.79 | 9.80 | 28.99 | NA |
| S-2 | 9/30/1999 | 678 | 177 a | 135 | 8.22 | 14.9 | 25.8 | 17,100 | 17,000 c | NA | NA | NA | NA | NA | NA | 38.79 | 10.58 | 28.21 | 5.1/4.8 |
| S-2 | 12/22/1999 | 316 | 142 a | 55.8 | 10.1 | 5.26 | 10.4 | 9,410 | 8,810 | NA | NA | NA | NA | NA | NA | 38.79 | 10.13 | 28.66 | 9.6/5.2 |
| S-2 | 3/9/2000 | 2,670 | 630 a | 1,190 d | 62.7 | 84.1 | 125 | 29,200 d | 31,400 c | NA | NA | NA | NA | NA | NA | 38.78 | 7.88 | 30.90 | 7.6/5.0 |
| S-2 | 6/20/2000 | <5,000 | 401 a | 348 | <50.0 | 50.4 | 127 | 35,800 | 33,900 c | NA | NA | NA | NA | NA | NA | 38.78 | 10.27 | 28.51 | 1.9/2.2 |
| S-2 | 9/5/2000 | <5,000 | 373 a | 106 | <50.0 | <50.0 | <50.0 | 25,800 | 37,100 c | NA | NA | NA | NA | NA | NA | 38.78 | 10.19 | 28.59 | 0.5/1.6 |
| S-2 | 12/4/2000 | <250 | 1,730 a | 4.37 | <2.50 | <2.50 | <2.50 | 4,500 | 5,130 c | NA | NA | NA | NA | NA | NA | 38.78 | 10.30 | 28.48 | 10.6/9.4 |
| S-2 | 12/12/2000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 38.78 | 9.66 | 29.12 | NA |
| S-2 | 3/8/2001 | <2,500 | <51.3 | 318 | 45.7 | 53.5 | 88.5 | 15,500 | 17,500 | NA | NA | NA | NA | NA | NA | 38.78 | 8.57 | 30.21 | 2.7e |
| S-2 | 6/7/2001 | 18,000 | 11,000 | 450 | 170 | 390 | 2,200 | 13,000 | 18,000 | NA | NA | NA | NA | NA | NA | 38.78 | 9.39 | 29.39 | 1.1/2.0 |
| S-2 | 9/13/2001 | 13,000 | <5,000 | 140 | 110 | 350 | 1,400 | NA | 9,200 | NA | NA | NA | NA | NA | NA | 38.78 | 10.34 | 28.44 | 11.0/4.5 |
| S-2 | 11/19/2001 | 15,000 | 8,700 | 71 | 27 | 86 | 330 | NA | 7,500 | NA | NA | NA | NA | NA | NA | 38.78 | 9.90 | 28.88 | 5.0/3.1 |
| S-2 | 3/18/2002 | 3,700 | 14,000 | 93 | <20 | 35 | 100 | NA | 7,500 | NA | NA | NA | NA | NA | NA | 38.78 | 9.91 | 28.87 | 0.9/4.2 |
| S-2 | 6/19/2002 | 2,100 | <2,000 | 92 | <10 | 24 | 50 | NA | 4,700 | NA | NA | NA | NA | NA | NA | 38.78 | 9.98 | 28.80 | NA |

**WELL CONCENTRATIONS**
**Former Shell Service Station**
**4411 Foothill Boulevard**
**Oakland, CA**

| 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) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-2 | 9/11/2002 | 2,100 | <450 | 54 | <5.0 | 19 | 55 | NA | 1,900 | NA | NA | NA | NA | NA | NA | 38.78 | 10.25 | 28.53 | 3.5 |
| S-2 | 12/11/2002 | 570 | 1,900 | 9.4 | <2.5 | 7.2 | 14 | NA | 1,100 | NA | NA | NA | NA | NA | NA | 38.47 | 9.99 | 28.48 | 2.0 |
| S-2 | 3/11/2003 | 2,900 | <1,800 | 150 | 5.5 | 54 | 84 | NA | 870 | NA | NA | NA | NA | NA | NA | 38.47 | 9.25 | 29.22 | 2.4 |
| S-2 | 6/10/2003 | 2,200 | 840 a | 83 | <5.0 | 22 | 52 | NA | 970 | NA | NA | NA | NA | NA | NA | 38.47 | 9.20 | 29.27 | 5.0 |
| S-2 | 9/9/2003 | 1,200 | 270 a | 57 | <2.5 | 11 | 33 | NA | 740 | NA | NA | NA | NA | NA | NA | 38.47 | 9.70 | 28.77 | 3.7 |
| S-2 | 12/9/2003 | 3,100 | 1,900 a | 84 | <5.0 | 45 | 90 | NA | 660 | NA | NA | NA | NA | NA | NA | 38.47 | 9.31 | 29.16 | 24.21 |
| S-2 | 3/9/2004 | 1,600 | 990 a | 140 | <5.0 | 31 | 49 | NA | 610 | NA | NA | NA | NA | NA | NA | 38.47 | 8.24 | 30.23 | 2.6 |
| S-2 | 6/8/2004 | 640 | 400 a | 40 | <2.5 | 4.2 | 6.6 | NA | 460 | NA | NA | NA | NA | NA | NA | 38.47 | 9.40 | 29.07 | 8.2 |
| S-2 | 9/7/2004 | <100 | 240 i | 6.6 | <1.0 | 1.3 | 2.3 | NA | 140 | <4.0 | <4.0 | <4.0 | 450 | NA | NA | 38.47 | 9.78 | 28.69 | 2.4 |
| S-2 | 12/6/2004 | 260 | 140 a | 26 | <1.0 | 2.0 | <2.0 | NA | 270 | NA | NA | NA | NA | NA | NA | 38.47 | 9.45 | 29.02 | 8.5 |
| S-2 | 3/7/2005 | 2,300 | 450 i | 100 | <5.0 | 11 | <10 | NA | 570 | NA | NA | NA | NA | NA | NA | 38.47 | 7.82 | 30.65 | 16.7 |
| S-2 | 6/10/2005 | <2,500 | 550 a | 200 | <25 | <25 | <50 | NA | 630 | NA | NA | NA | NA | NA | NA | 38.47 | 8.37 | 30.10 | 0.70 |
| S-3 | 5/28/1993 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 8.45 | 28.88 | NA |
| S-3 | 6/3/1993 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 8.36 | 28.97 | NA |
| S-3 | 1/19/1900 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 8.41 | 28.92 | NA |
| S-3 | 6/29/1993 | 29,000 | NA | 1,500 | 1,800 | 950 | 6,200 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | NA | NA | NA |
| S-3 | 9/21/1993 | 15,000 | NA | 900 | 2,200 | 2,600 | 11,000 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 10.08 | 27.25 | NA |
| S-3 | 12/94/1993 | 20,000 | NA | 1,100 | 2,400 | 1,800 | 8,500 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 8.80 | 28.53 | NA |
| S-3 | 3/17/1994 | 14,000 | NA | 580 | 190 | 750 | 1,700 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 8.34 | 28.99 | NA |
| S-3 | 6/16/1994 | 20,000 | NA | 700 | 690 | 1,400 | 4,100 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 9.12 | 28.21 | NA |
| S-3 (D) | 6/16/1994 | 19,000 | NA | 680 | 560 | 1,300 | 3,700 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | NA | NA | NA |
| S-3 | 9/22/1994 | 24,000 | NA | 630 | 1,100 | 1,400 | 5,700 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 10.27 | 27.06 | NA |
| S-3 (D) | 9/22/1994 | 25,000 | NA | 720 | 1,100 | 1,500 | 6,100 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | NA | NA | NA |
| S-3 | 12/15/1994 | 18,000 | NA | 520 | 800 | 1,100 | 4,200 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 7.81 | 29.52 | NA |
| S-3 (D) | 12/15/1994 | 23,000 | NA | 1,000 | 1,900 | 2,000 | 8,600 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | NA | NA | NA |
| S-3 b | 3/30/1995 | 8,800 | NA | 360 | 730 | 700 | 3,700 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 7.06 | 30.27 | NA |
| S-3 (D) | 3/30/1995 | 7,600 | NA | 330 | 570 | 600 | 2,600 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | NA | NA | NA |
| S-3 | 06/20/1995 | 9,600 | NA | 510 | 170 | 960 | 1,700 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 8.15 | 29.18 | NA |
| S-3 (D) | 06/20/1995 | 9,800 | NA | 500 | 170 | 950 | 1,700 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | NA | NA | NA |
| S-3 | 9/20/1995 | 21,000 | NA | 400 | 560 | 1,300 | 4,600 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 9.32 | 28.01 | NA |
| S-3 | 12/6/1995 | 24,000 | NA | 630 | 1,400 | 1,400 | 6,000 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 10.53 | 26.80 | NA |
| S-3 (D) | 12/6/1995 | 22,000 | NA | 630 | 1,200 | 1,400 | 5,500 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | NA | NA | NA |
| S-3 | 3/21/1996 | 9,100 | NA | 290 | 110 | 490 | 1,600 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 7.32 | 30.01 | NA |

**WELL CONCENTRATIONS**
**Former Shell Service Station**
**4411 Foothill Boulevard**
**Oakland, CA**

| 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) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-3 (D) | 3/21/1996 | 11,000 | NA | 310 | 250 | 540 | 2,100 | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | NA | NA | NA |
| S-3 | 9/6/1996 | 15,000 | NA | 440 | 300 | 1,100 | 3,000 | 500 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 10.10 | 27.23 | NA |
| S-3 (D) | 9/6/1996 | 11,000 | NA | 490 | 170 | 820 | 1,500 | 700 | NA | NA | NA | NA | NA | NA | NA | 37.33 | NA | NA | NA |
| S-3 | 12/19/1996 | 12,000 | NA | 600 | 380 | 850 | 2,500 | 380 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 8.36 | 28.97 | NA |
| S-3 (D) | 12/19/1996 | 12,000 | NA | 590 | 380 | 830 | 2,500 | 540 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 8.36 | 28.97 | NA |
| S-3 | 3/17/1997 | 12,000 | NA | 520 | 140 | 740 | 1,400 | 320 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 8.57 | 28.76 | NA |
| S-3 (D) | 3/17/1997 | 9,600 | NA | 500 | 100 | 680 | 1,100 | <250 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 8.57 | 28.76 | NA |
| S-3 | 6/11/1997 | 9,600 | NA | 510 | 94 | 740 | 1,100 | 410 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 9.26 | 28.07 | NA |
| S-3 | 9/17/1997 | 21,000 | NA | 140 | 560 | 1,800 | 7,200 | 130 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 9.62 | 27.71 | NA |
| S-3 | 12/11/1997 | 24,000 | NA | 530 | 970 | 1,600 | 6,900 | 950 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 7.34 | 29.99 | NA |
| S-3 (D) | 12/11/1997 | 29,000 | NA | 520 | 1,000 | 1,600 | 7,300 | 970 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 7.34 | 29.99 | NA |
| S-3 | 3/16/1998 | 29,000 | NA | 840 | 810 | 1,700 | 6,000 | <250 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 5.75 | 31.58 | 3.0/3.4 |
| S-3 | 6/23/1998 | 3,800 | NA | 90 | 220 | 240 | 1,400 | <50 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 5.98 | 31.35 | 4.2/2.0 |
| S-3 | 9/1/1998 | 9,600 | NA | 480 | 120 | 870 | 1,800 | 490 | <50 | NA | NA | NA | NA | NA | NA | 37.33 | 8.98 | 28.35 | 1.9/2.8 |
| S-3 (D) | 9/1/1998 | 9,200 | NA | 420 | 110 | 800 | 1,700 | 110 | <50 | NA | NA | NA | NA | NA | NA | 37.33 | 8.98 | 28.35 | 1.9/2.8 |
| S-3 | 12/30/1998 | 7,660 | NA | 240 | 103 | 410 | 834 | 64.9 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 9.11 | 28.22 | 1.8/1.6 |
| S-3 | 3/30/1999 | 2,070 | NA | 195 | 10.0 | <5.00 | 48.6 | 354 | 64.6 | NA | NA | NA | NA | NA | NA | 37.33 | 6.95 | 30.38 | 1.3/1.5 |
| S-3 | 3/31/1999 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 37.33 | 7.48 | 29.85 | NA |
| S-3 | 6/14/1999 | 1,250 | NA | 37.4 | 17.4 | 110 | 109 | 118 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 8.85 | 28.48 | NA |
| S-3 | 9/30/1999 | 8,270 | 2,020 a | 226 | 113 | 686 | 1,440 | 184 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 9.66 | 27.67 | 3.5/2.8 |
| S-3 | 12/22/1999 | 9,530 | 2,270 a | 207 | 132 | 603 | 1,450 | 616 | NA | NA | NA | NA | NA | NA | NA | 37.33 | 9.50 | 27.83 | 0.98/0.8 |
| S-3 | 3/9/2000 | 2,290 d | 1,600 a | 84.5d | 17.0 d | 104 d | 105 d | 29.3 d | NA | NA | NA | NA | NA | NA | NA | 37.30 | 6.25 | 31.05 | 1.0/1.4 |
| S-3 | 6/20/2000 | 5,570 | 2,900 a | 117 | 41.6 | 395 | 393 | 354 | NA | NA | NA | NA | NA | NA | NA | 37.30 | 9.67 | 27.63 | 1.8/2.0 |
| S-3 | 9/5/2000 | 6,930 | 1,600 a | 127 | 85.5 | 354 | 535 | 509 | NA | NA | NA | NA | NA | NA | NA | 37.30 | 9.49 | 27.81 | 1.1/1.9 |
| S-3 | 12/4/2000 | 8,390 | 1,460 a | 217 | 82.4 | 471 | 952 | 436 | NA | NA | NA | NA | NA | NA | NA | 37.30 | 9.23 | 28.07 | 1.1/1.5 |
| S-3 | 12/12/2000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 37.30 | 9.23 | 28.07 | NA |
| S-3 | 3/8/2001 | 19,400 | 1,720 a | 465 | 772 | 1,230 | 3,830 | 160 | NA | NA | NA | NA | NA | NA | NA | 37.30 | 8.17 | 29.13 | 1.1f |
| S-3 | 6/7/2001 | 12,000 | 1,400 | 230 | 110 | 900 | 1,100 | 120 | NA | NA | NA | NA | NA | NA | NA | 37.30 | 8.78 | 28.52 | 0.8/0.9 |
| S-3 | 9/13/2001 | 32,000 | <2,000 | 400 | 880 | 2,000 | 7,000 | NA | <100 | NA | NA | NA | NA | NA | NA | 37.30 | 9.93 | 27.37 | 3.7/2.9 |
| S-3 | 11/19/2001 | 26,000 | <2,000 | 160 | 210 | 990 | 4,100 | NA | <50 | NA | NA | NA | NA | NA | NA | 37.30 | 9.33 | 27.97 | 2.9/1.9 |
| S-3 | 3/18/2002 | 3,800 | 810 | 61 | 120 | 130 | 620 | NA | 5.0 | NA | NA | NA | NA | NA | NA | 37.30 | 7.03 | 30.27 | 1.1/4.7 |
| S-3 | 6/19/2002 | 3,200 | <500 | 48 | 81 | 160 | 360 | NA | 9.4 | NA | NA | NA | NA | NA | NA | 37.30 | 8.92 | 28.38 | NA |
| S-3 | 9/11/2002 | 16,000 | <1,100 | 230 | 570 | 980 | 3,900 | NA | <50 | NA | NA | NA | NA | NA | NA | 37.30 | 9.54 | 27.76 | 3.0 |
| S-3 | 12/11/2002 | 16,000 | <1,500 | 130 | 270 | 770 | 3,000 | NA | <50 | NA | NA | NA | NA | NA | NA | 36.85 | 9.23 | 27.62 | 1.6 |

**WELL CONCENTRATIONS**
**Former Shell Service Station**
**4411 Foothill Boulevard**
**Oakland, CA**

| 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) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-3 | 3/11/2003 | 8,100 | <1,500 | 29 | 110 | 190 | 1,700 | NA | <20 | NA | NA | NA | NA | NA | NA | 36.85 | 7.32 | 29.53 | 3.9 |
| S-3 | 6/10/2003 | Well inaccessible | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 36.85 | NA | NA | NA |
| S-3 | 9/9/2003 | 5,900 | 640 a | 44 | 140 | 130 | 1,500 | NA | 4.4 | NA | NA | NA | NA | NA | NA | 36.85 | 8.99 | 27.86 | 2.2 |
| S-3 | 12/9/2003 | 27,000 | 1,500 a | 130 | 460 | 550 | 4,900 | NA | <20 | NA | NA | NA | NA | NA | NA | 36.85 | 7.67 | 29.18 | 1.6 |
| S-3 | 3/9/2004 | 11,000 | 1,700 a | 24 | 100 | 230 | 3,200 | NA | <5.0 | NA | NA | NA | NA | NA | NA | 36.85 | 6.35 | 30.50 | 2.1 |
| S-3 | 6/8/2004 | 1,700 | 1,100 a | 11 | 34 | 29 | 420 | NA | <2.5 | NA | NA | NA | NA | NA | NA | 36.85 | 8.25 | 28.60 | 0.1 |
| S-3 | 9/7/2004 | 850 | 310 i | 13 | 0.99 | 23 | 17 | NA | 7.0 | <2.0 | <2.0 | <2.0 | <5.0 | NA | NA | 36.85 | 9.05 | 27.80 | 0.1 |
| S-3 | 12/6/2004 | Unable to sample | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 36.85 | 7.70 | 29.15 | NA |
| S-3 | 12/15/2004 | 620 | 270 i | 1.9 | 7.8 | 10 | 180 | NA | <0.50 | NA | NA | NA | NA | NA | NA | 36.85 | 5.83 | 31.02 | 2.4 |
| S-3 | 3/7/2005 | 4,500 | 400 i | <0.50 | 7.7 | 30 | 350 | NA | <0.50 | NA | NA | NA | NA | NA | NA | 36.85 | 4.58 | 32.27 | 4.4 |
| S-3 | 6/10/2005 | 850 | 130 a | <0.50 | 1.3 | 7.4 | 53 | NA | <0.50 | NA | NA | NA | NA | NA | NA | 36.85 | 5.40 | 31.45 | 0.17 |
| S-4 | 3/29/2000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 39.06 | 8.37 | 30.69 | NA |
| S-4 | 3/31/2000 | 20,900 | 5,780 a | 4,570 | 272 | 595 | 997 | 4,490 | 4,450 c | NA | NA | NA | NA | NA | NA | 39.06 | 8.92 | 30.14 | 1.8/1.2 |
| S-4 | 6/20/2000 | 19,500 | 244a | 4,590 | 309 | 723 | 1,290 | 3,740 | NA | NA | NA | NA | NA | NA | NA | 39.06 | 8.77 | 30.29 | 2.7/2.9 |
| S-4 | 9/5/2000 | 5,760 | 1,670 a | 841 | 54.2 | 162 | 115 | 1,040 | NA | NA | NA | NA | NA | NA | NA | 39.06 | 10.57 | 28.49 | 1.3/0.3 |
| S-4 | 12/4/2000 | 3,990 | 1,050 a | 949 | <10.0 | 118 | 48.3 | 1,120 | NA | NA | NA | NA | NA | NA | NA | 39.06 | 10.67 | 28.39 | 1.1/1.0 |
| S-4 | 12/12/2000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 39.06 | 10.64 | 28.42 | NA |
| S-4 | 3/8/2001 | 20,100 | 5,840 a | 5,210 | 105 | 381 | 281 | 2,520 | NA | NA | NA | NA | NA | NA | NA | 39.06 | 8.44 | 30.62 | 1.0/0.9 |
| S-4 | 6/7/2001 | 11,000 | 3,500 | 2,500 | 86 | 370 | 170 | 2,000 | NA | NA | NA | NA | NA | NA | NA | 39.06 | 10.57 | 28.49 | 0.7/0.6 |
| S-4 | 9/13/2001 | 4,200 | <800 | 790 | 14 | 110 | 48 | NA | 690 | NA | NA | NA | NA | NA | NA | 39.06 | 11.27 | 27.79 | 3.8/3.9 |
| S-4 | 11/19/2001 | 2,300 | <600 | 230 | 4.1 | 21 | 22 | NA | 590 | NA | NA | NA | NA | NA | NA | 39.06 | 10.83 | 28.23 | 3.6/1.6 |
| S-4 | 3/18/2002 | Unable to sample | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 39.06 | 8.75 | 30.31 | NA |
| S-4 | 3/29/2002 | 14,000 | NA | 1,700 | 30 | 280 | 250 | NA | 960 | NA | NA | NA | NA | NA | NA | 39.06 | 8.85 g | 30.21 | 3.0/3.1 |
| S-4 | 6/19/2002 | 4,700 | <1,500 | 620 | 9.5 | 84 | 37 | NA | 490 | NA | NA | NA | NA | NA | NA | NA | 10.37 h | NA | NA |
| S-4 | 9/11/2002 | 2,700 | 280 | 280 | 4.6 | 23 | 13 | NA | 410 | NA | NA | NA | NA | NA | NA | NA | 11.14 | NA | 0.6 |
| S-4 | 12/11/2002 | 3,300 | <900 | 320 | 5.7 | 24 | 15 | NA | 420 | NA | NA | NA | NA | NA | NA | 38.69 | 10.78 | 27.91 | 2.2 |
| S-4 | 3/11/2003 | 12,000 | <5,600 | 1,900 | 63 | 360 | 280 | NA | 930 | NA | NA | NA | NA | NA | NA | 38.69 | 9.31 | 29.38 | 1.5 |
| S-4 | 6/10/2003 | 13,000 | 3,100 a | 2,400 | 86 | 650 | 380 | NA | 1,100 | NA | NA | NA | NA | NA | NA | 38.69 | 9.77 | 28.92 | 0.8 |
| S-4 | 9/9/2003 | 3,700 | 1,700 a | 510 | 12 | 43 | 43 | NA | 650 | NA | NA | NA | NA | NA | NA | 38.69 | 10.78 | 27.91 | 0.9 |
| S-4 | 12/9/2003 | 3,900 | 390 a | 150 | 4.2 | 7.5 | 13 | NA | 510 | NA | NA | NA | NA | NA | NA | 38.69 | 10.20 | 28.49 | 0.1 |
| S-4 | 3/9/2004 | 13,000 | 3,100 a | 2,500 | 110 | 810 | 1,100 | NA | 1,100 | NA | NA | NA | NA | NA | NA | 38.69 | 7.67 | 31.02 | 0.7 |
| S-4 | 6/8/2004 | 6,100 | 1,400 a | 870 | 30 | 120 | 150 | NA | 420 | NA | NA | NA | NA | NA | NA | 38.69 | 10.27 | 28.42 | 0.3 |
| S-4 | 9/7/2004 | 3,100 | 890 i | 290 | 6.4 | 18 | 14 | NA | 250 | <10 | <10 | <10 | 140 | NA | NA | 38.69 | 10.91 | 27.78 | 0.1 |

**WELL CONCENTRATIONS**
**Former Shell Service Station**
**4411 Foothill Boulevard**
**Oakland, CA**

| 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) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-4 | 12/6/2004 | 4,900 | 670 i | 520 | 9.9 | 38 | 24 | NA | 290 | NA | NA | NA | NA | NA | NA | 38.69 | 10.03 | 28.66 | 0.2 |
| S-4 | 3/7/2005 | 28,000 | 2,900 i | 2,300 | 130 | 690 | 770 | NA | 770 | NA | NA | NA | NA | NA | NA | 38.69 | 6.20 | 32.49 | 0.2 |
| S-4 | 6/10/2005 | 13,000 | 2,700 i | 1,900 | 81 | 380 | 460 | NA | 890 | NA | NA | NA | NA | NA | NA | 38.69 | 8.90 | 29.79 | 0.15 |
| S-5 | 5/31/2002 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 9.54 | NA | NA |
| S-5 | 6/19/2002 | 16,000 | <2,000 | 2,600 | 320 | 180 | 1,600 | NA | 5,300 | NA | NA | NA | NA | NA | NA | NA | 9.87 | NA | NA |
| S-5 | 9/11/2002 | 8,800 | <1,200 | 1,500 | 64 | 89 | 120 | NA | 5,600 | NA | NA | NA | NA | NA | NA | NA | 10.28 | NA | 0.9 |
| S-5 | 12/11/2002 | 4,400 | <1,000 | 280 | 61 | 130 | 130 | NA | 4,000 | NA | NA | NA | NA | NA | NA | NA | 9.87 | NA | 2.9 |
| S-5 | 3/11/2003 | 2,300 | <900 | 28 | 5.6 | 59 | 15 | NA | 2,400 | NA | NA | NA | NA | NA | NA | 38.05 | 8.26 | 29.79 | 1.6 |
| S-5 | 6/10/2003 | 2,400 | 620 a | 11 | 7.2 | 56 | 38 | NA | 1,100 | NA | NA | NA | NA | NA | NA | 38.05 | 8.51 | 29.54 | 0.1 |
| S-5 | 9/9/2003 | 3,700 | 660 a | 23 | 14 | 44 | 150 | NA | 440 | NA | NA | NA | NA | NA | NA | 38.05 | 9.44 | 28.61 | 0.1 |
| S-5 | 12/9/2003 | 12,000 | 600 a | 200 | 80 | 41 | 320 | NA | 580 | NA | NA | NA | NA | NA | NA | 38.05 | 9.50 | 28.55 | 0.4 |
| S-5 | 3/9/2004 | 2,300 | 550 a | 130 | 3.5 | 6.9 | 13 | NA | 250 | NA | NA | NA | NA | NA | NA | 38.05 | 7.04 | 31.01 | 0.2 |
| S-5 | 6/8/2004 | 2,900 | 490 a | 11 | <2.5 | 8.9 | 18 | NA | 120 | NA | NA | NA | NA | NA | NA | 38.05 | 8.87 | 29.18 | 0.2 |
| S-5 | 9/7/2004 | 3,600 | 650 i | 17 | 11 | 12 | 30 | NA | 120 | <10 | <10 | <10 | 3,700 | NA | NA | 38.05 | 9.45 | 28.60 | 0.1 |
| S-5 | 12/6/2004 | 4,700 | 460 i | 99 | 28 | 14 | 69 | NA | 180 | NA | NA | NA | NA | NA | NA | 38.05 | 8.75 | 29.30 | 0.1 |
| S-5 | 3/7/2005 | 4,700 | 360 i | 440 | <2.5 | <2.5 | <5.0 | NA | 200 | NA | NA | NA | NA | NA | NA | 38.05 | 7.28 | 30.77 | 0.1 |
| S-5 | 6/10/2005 | 1,200 | 240 i | 1.3 | <0.50 | <0.50 | 1.2 | NA | 80 | NA | NA | NA | NA | NA | NA | 38.05 | 7.26 | 30.79 | 0.25 |
| S-6 | 2/22/2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 37.86 | 8.18 | 29.68 | NA |
| S-6 | 3/2/2007 | 5,100 k | 1,700 j | 630 k | 23 | 200 | 110 | NA | 140 | NA | NA | NA | 280 | 13 | <0.50 | 37.86 | 7.73 | 30.13 | NA |
| S-6 | 5/23/2007 | 5,600 l | 2,600 j | 510 | 16 | 11 | 144 | NA | 72 | NA | NA | NA | 66 | <2.5 | <5.0 | 37.86 | 8.13 | 29.73 | NA |
| S-6 | 8/28/2007 | 13,000 l | 6,100 j,m | 650 | 32 | 480 | 242 | NA | 78 | 6.1 | <10 | <10 | 320 | <2.5 | <5.0 | 37.86 | 8.44 | 29.42 | NA |
| S-6 | 11/13/2007 | 19,000 l | 6,400 j,m | 760 | 47 | 500 | 602 | NA | 68 | NA | NA | NA | 340 | <5.0 | <10 | 37.86 | 8.78 | 29.08 | NA |
| S-6 | 2/8/2008 | 6,800 l | 2,200 j,m | 380 | 14 | 130 | 87.0 | NA | 75 | NA | NA | NA | 200 | <2.5 | <5.0 | 37.86 | 7.06 | 30.80 | NA |
| S-6 | 5/20/2008 | 12,000 l | 2,900 j,m | 590 | 21 | 270 | 60 | NA | 54 | NA | NA | NA | 240 | <2.5 | <5.0 | 37.86 | 8.60 | 29.26 | NA |
| **S-6** | **8/12/2008** | **22,000** | **7,100 m,j** | **890** | **75** | **450** | **1,170** | **NA** | **71** | **<20** | **<20** | **<20** | **200** | **<5.0** | **<10** | **37.86** | **9.21** | **28.65** | **NA** |
| S-7 | 2/22/2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 37.58 | 7.39 | 30.19 | NA |
| S-7 | 3/2/2007 | 100,000 k | 2,500 j | 32,000 k | 9,700 k | 2,900 k | 14,000 k | NA | 310 k | NA | NA | NA | 480 | 150 | <0.50 | 37.58 | 7.42 | 30.16 | NA |
| S-7 | 5/23/2007 | 82,000 l,m | 3,700 j | 24,000 | 8,100 | 2,800 | 13,000 | NA | 190 | NA | NA | NA | <200 | <10 | <20 | 37.58 | 8.38 | 29.20 | NA |
| S-7 | 8/28/2007 | 96,000 l | 4,500 j,m | 23,000 | 7,000 | 2,900 | 12,200 | NA | 190 n | <400 | <400 | <400 | <2,000 | <100 | <200 | 37.58 | 9.32 | 28.26 | NA |
| S-7 | 11/13/2007 | 100,000 l | 25,000 j,m | 22,000 | 6,500 | 3,000 | 12,400 | NA | <200 | NA | NA | NA | <2,000 | <100 | <200 | 37.58 | 9.60 | 27.98 | NA |
| S-7 | 2/8/2008 | 74,000 l | 4,000 j,m | 29,000 | 9,300 | 3,100 | 13,700 | NA | 500 | NA | NA | NA | <2,000 | <100 | <200 | 37.58 | 6.57 | 31.01 | NA |

**WELL CONCENTRATIONS**
**Former Shell Service Station**
**4411 Foothill Boulevard**
**Oakland, CA**

| 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) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-7 | 5/20/2008 | 69,000 l | 1,600 j,m | 20,000 | 5,500 | 2,500 | 9,800 | NA | 260 | NA | NA | NA | <2,000 | <100 | <200 | 37.58 | 9.00 | 28.58 | NA |
| **S-7** | **8/12/2008** | **120,000** | **4,900 m,j** | **25,000** | **8,400** | **2,800** | **11,700** | **NA** | **<200** | **<400** | **<400** | **<400** | **<2,000** | **<100** | **<200** | **37.58** | **9.81** | **27.77** | **NA** |
| S-8 | 2/22/2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 37.05 | 6.65 | 30.40 | NA |
| S-8 | 3/2/2007 | 72,000 k | 2,300 j | 12,000 k | 5,600 k | 2,900 k | 15,000 k | NA | 120 | NA | NA | NA | 230 | 150 | <2.5 | 37.05 | 6.60 | 30.45 | NA |
| S-8 | 5/23/2007 | 69,000 l,m | 5,800 j | 12,000 | 6,700 | 3,100 | 19,500 | NA | 160 | NA | NA | NA | 280 | <10 | <20 | 37.05 | 7.91 | 29.14 | NA |
| S-8 | 8/28/2007 | 69,000 l | 6,700 j,m | 11,000 | 4,800 | 3,100 | 16,800 | NA | 170 | <200 | <200 | <200 | <1,000 | <50 | <100 | 37.05 | 8.79 | 28.26 | NA |
| S-8 | 11/13/2007 | 84,000 l | 21,000 j,m | 10,000 | 5,000 | 3,300 | 18,300 | NA | 290 | NA | NA | NA | <1,000 | <50 | <100 | 37.05 | 8.93 | 28.12 | NA |
| S-8 | 2/8/2008 | 54,000 l | 4,500 j,m | 11,000 | 5,500 | 3,500 | 18,200 | NA | 200 | NA | NA | NA | <1,000 | <50 | <100 | 37.05 | 6.26 | 30.79 | NA |
| S-8 | 5/20/2008 | 67,000 l | 2,200 j,m | 10,000 | 5,400 | 3,900 | 19,600 | NA | 160 | NA | NA | NA | <1,000 | <50 | <100 | 37.05 | 7.40 | 29.65 | NA |
| **S-8** | **8/12/2008** | **77,000** | **5,200 m,j** | **9,300** | **3,200** | **2,500** | **14,300** | **NA** | **210** | **<200** | **<200** | **<200** | **<1,000** | **<50** | **<100** | **37.05** | **9.10** | **27.95** | **NA** |
| S-9 | 2/22/2007 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 37.52 | 7.59 | 29.93 | NA |
| S-9 | 3/2/2007 | 12,000 | 1,400 j | 150 | 200 | 1,200 | 2,500 | NA | 5.8 | NA | NA | NA | <50 | <5.0 | <5.0 | 37.52 | 7.30 | 30.22 | NA |
| S-9 | 5/23/2007 | 8,200 l | 2,300 j | 13 | 38 | 2.5 n | 1,453 | NA | 5.2 n | NA | NA | NA | <100 | <5.0 | <10 | 37.52 | 8.43 | 29.09 | NA |
| S-9 | 8/28/2007 | 9,500 l | 2,800 j,m | 21 | 49 | 540 | 789 | NA | <10 | <20 | <20 | <20 | <100 | <5.0 | <10 | 37.52 | 9.59 | 27.93 | NA |
| S-9 | 11/13/2007 | 12,000 l | 2,100 j,m | 19 | 35 | 450 | 499 | NA | <10 | NA | NA | NA | <100 | <5.0 | <10 | 37.52 | 9.91 | 27.61 | NA |
| S-9 | 2/8/2008 | 10,000 l | 1,900 j,m | 18 | 67 | 1,100 | 1,451 | NA | <10 | NA | NA | NA | <100 | <5.0 | <10 | 37.52 | 6.40 | 31.12 | NA |
| S-9 | 5/20/2008 | 11,000 l | 1,500 j,m | 150 | 770 | 13,000 | 17,460 | NA | <100 | NA | NA | NA | <1,000 | <50 | <100 | 37.52 | 8.79 | 28.73 | NA |
| **S-9** | **8/12/2008** | **9,400** | **2,000 m,j** | **16** | **59** | **700** | **834** | **NA** | **<10** | **<20** | **<20** | **<20** | **<100** | **<5.0** | **<10** | **37.52** | **10.00** | **27.52** | **NA** |
| BW-A | 9/30/1999 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 10.55 | NA | 2.3 |
| BW-A | 12/22/1999 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 9.52 | NA | 2.2 |
| BW-A | 3/9/2000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 3.99 | NA | 1.5 |
| BW-A | 6/20/2000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 9.69 | NA | 2.4 |
| BW-A | 9/5/2000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 9.43 | NA | 1.0 |
| BW-A | 12/4/2000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 8.96 | NA | 1.3 |
| BW-A | 12/12/2000 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 8.71 | NA | NA |
| BW-A | 3/8/2001 | <2,500 | 1,370 a | 46.6 | <25.0 | <25.0 | <25.0 | 10,600 | 11,700 | NA | NA | NA | NA | NA | NA | NA | 6.38 | NA | 0.9/1.4 |
| BW-A | 6/7/2001 | 1,100 | 960 | <10 | <10 | <10 | 17 | 7,200 | NA | NA | NA | NA | NA | NA | NA | NA | 9.82 | NA | 3.6/0.8 |
| BW-A | 9/13/2001 | <2,000 | 460 | <20 | <20 | <20 | <50 | NA | 13,000 | NA | NA | NA | NA | NA | NA | NA | 10.49 | NA | 3.3/1.7 |
| BW-A | 11/19/2001 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 9.89 | NA | NA |

# WELL CONCENTRATIONS
## Former Shell Service Station
## 4411 Foothill Boulevard
## Oakland, CA

| 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) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to September 13, 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 September 13, 2001, analyzed by EPA Method 8020.
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260B
ETBE = Ethyl tertiary butyl ether, analyzed by EPA Method 8260B
TAME = Tertiary amyl methyl ether, analyzed by EPA Method 8260B
TBA = Tertiary butyl alcohol, analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane, analyzed by EPA Method 8260B
EDB = Ethylene Dibromide, analyzed by EPA Method 8260B
TOB = Top of Box Elevation
TOC = Top of Casing Elevation
GW = Groundwater
DO = Dissolved Oxygen
ug/L = Parts per billion
ppm = Parts per million
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
(D) = Duplicate sample
n/n = Pre-purge/Post-purge
NA = Not applicable

# WELL CONCENTRATIONS
## Former Shell Service Station
## 4411 Foothill Boulevard
## Oakland, CA

| 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) | DIPE (ug/L) | ETBE (ug/L) | TAME (ug/L) | TBA (ug/L) | 1,2-DCA (ug/L) | EDB (ug/L) | TOC (MSL) | Depth to Water (ft.) | GW Elevation (MSL) | DO Reading (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

Notes:

a = Chromatogram pattern indicates an unidentified hydrocarbon/Hydrocarbon does not match pattern of laboratory's standard.

b = National Environmental Testing, Inc. (NET), analyzed within hold time but further dilutions were required and analyzed out of hold time. NET suggests that these should be considered minimum concentrations.

c = Sample analyzed outside the EPA recommended holding times.

d = Result reported was generated out of hold time.

e = Post-purge DO reading.

f = Pre-purge DO reading.

g = Estimated depth to water from top of box; TOB determined by using the survey data from February 3, 2000 for the difference between TOB and TOC.

h = Estimated depth to water from TOB. Wellbox was destroyed. No new survey.

i = Hydrocarbon reported is in the early Diesel range and does not match the laboratory's standard.

j = Diesel with Silica gel clean-up.

k = Initial analysis within holding time. Reanalysis for the required dilution or confirmation was past holding time.

l = Analyzed by EPA Method 8015B (M).

m = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

n = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.

Wells S-1 through S-4 surveyed February 3, 2000 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells S-1 through S-4 surveyed March 5, 2002 by Virgil Chavez Land Surveying of Vallejo, CA.

Beginning December 12, 2002, depth to water referenced to Top of Casing elevation.

Well S-5 surveyed May 29, 2003 by Virgil Chavez Land Surveying of Vallejo, CA.

Wells S-6 through S-9 surveyed February 21, 2007 by Virgil Chavez Land Surveying of Vallejo, CA.

Calscience
Environmental
Laboratories, Inc.

August 28, 2008

Michael Ninokata
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.: 08-08-1234**
**Client Reference: 4411 Foothill Blvd., Oakland, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/14/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

**Analytical Report**

| | |
|---|---|
| Blaine Tech Services, Inc. | Date Received: 08/14/08 |
| 1680 Rogers Avenue | Work Order No: 08-08-1234 |
| San Jose, CA 95112-1105 | Preparation: EPA 3510C |
| | Method: EPA 8015B |

Project: 4411 Foothill Blvd., Oakland, CA



| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **S-6** | **08-08-1234-1-E** | **08/12/08 14:20** | **Aqueous** | **GC 3** | **08/19/08** | **08/22/08 17:39** | **080819B12** |

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-The sample extract was subjected to Silica Gel treatment prior to analysis.

| Parameter | Result | RL | DF | Qual | Units |
|---|---|---|---|---|---|
| Diesel Range Organics | 7100 | 250 | 5 | | ug/L |

| Surrogates: | REC (%) | Control Limits | Qual |
|---|---|---|---|
| Decachlorobiphenyl | 140 | 68-140 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **S-7** | **08-08-1234-2-E** | **08/12/08 14:35** | **Aqueous** | **GC 3** | **08/19/08** | **08/22/08 15:42** | **080819B12** |

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-The sample extract was subjected to Silica Gel treatment prior to analysis.

| Parameter | Result | RL | DF | Qual | Units |
|---|---|---|---|---|---|
| Diesel Range Organics | 4900 | 50 | 1 | | ug/L |

| Surrogates: | REC (%) | Control Limits | Qual |
|---|---|---|---|
| Decachlorobiphenyl | 92 | 68-140 | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **S-8** | **08-08-1234-3-E** | **08/12/08 14:15** | **Aqueous** | **GC 3** | **08/19/08** | **08/22/08 18:19** | **080819B12** |

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-The sample extract was subjected to Silica Gel treatment prior to analysis.

| Parameter | Result | RL | DF | Qual | Units |
|---|---|---|---|---|---|
| Diesel Range Organics | 5200 | 250 | 5 | | ug/L |

| Surrogates: | REC (%) | Control Limits | Qual |
|---|---|---|---|
| Decachlorobiphenyl | 110 | 68-140 | |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

## Analytical Report



| | |
|---|---|
| Blaine Tech Services, Inc. | Date Received: 08/14/08 |
| 1680 Rogers Avenue | Work Order No: 08-08-1234 |
| San Jose, CA 95112-1105 | Preparation: EPA 3510C |
| | Method: EPA 8015B |

Project: 4411 Foothill Blvd., Oakland, CA



| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **S-9** | **08-08-1234-4-E** | **08/12/08 14:25** | **Aqueous** | **GC 3** | **08/19/08** | **08/22/08 17:01** | **080819B12** |

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-The sample extract was subjected to Silica Gel treatment prior to analysis.

| Parameter | Result | RL | DF | Qual | Units |
|---|---|---|---|---|---|
| Diesel Range Organics | 2000 | 50 | 1 | | ug/L |

| Surrogates: | REC (%) | Control Limits | Qual |
|---|---|---|---|
| Decachlorobiphenyl | 113 | 68-140 | |

| Method Blank | 099-12-211-619 | N/A | Aqueous | GC 3 | 08/19/08 | 08/22/08 11:49 | 080819B12 |
|---|---|---|---|---|---|---|---|

| Parameter | Result | RL | DF | Qual | Units |
|---|---|---|---|---|---|
| Diesel Range Organics | ND | 50 | 1 | | ug/L |

| Surrogates: | REC (%) | Control Limits | Qual |
|---|---|---|---|
| Decachlorobiphenyl | 104 | 68-140 | |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

**Analytical Report**

| | | | |
|---|---|---|---|
| Blaine Tech Services, Inc. | | Date Received: | 08/14/08 |
| 1680 Rogers Avenue | | Work Order No: | 08-08-1234 |
| San Jose, CA 95112-1105 | | Preparation: | EPA 5030B |
| | | Method: | LUFT GC/MS / EPA 8260B |
| | | Units: | ug/L |

Project: 4411 Foothill Blvd., Oakland, CA



| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **S-6** | **08-08-1234-1-B** | **08/12/08 14:20** | **Aqueous** | **GC/MS OO** | **08/21/08** | **08/21/08 21:11** | **080821L01** |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 890 | 5.0 | 10 | | Methyl-t-Butyl Ether (MTBE) | 71 | 10 | 10 | |
| 1,2-Dibromoethane | ND | 10 | 10 | | Tert-Butyl Alcohol (TBA) | 200 | 100 | 10 | |
| 1,2-Dichloroethane | ND | 5.0 | 10 | | Diisopropyl Ether (DIPE) | ND | 20 | 10 | |
| Ethylbenzene | 450 | 10 | 10 | | Ethyl-t-Butyl Ether (ETBE) | ND | 20 | 10 | |
| Toluene | 75 | 10 | 10 | | Tert-Amyl-Methyl Ether (TAME) | ND | 20 | 10 | |
| p/m-Xylene | 970 | 10 | 10 | | TPPH | 22000 | 500 | 10 | |
| o-Xylene | 200 | 10 | 10 | | | | | | |

| Surrogates: | REC (%) | Control Limits | Qual | Surrogates: | REC (%) | Control Limits | Qual |
|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 101 | 74-140 | | 1,2-Dichloroethane-d4 | 107 | 74-146 | |
| Toluene-d8 | 101 | 88-112 | | Toluene-d8-TPPH | 99 | 88-112 | |
| 1,4-Bromofluorobenzene | 103 | 74-110 | | | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **S-7** | **08-08-1234-2-A** | **08/12/08 14:35** | **Aqueous** | **GC/MS OO** | **08/20/08** | **08/20/08 23:57** | **080820L01** |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 25000 | 100 | 200 | | Methyl-t-Butyl Ether (MTBE) | ND | 200 | 200 | |
| 1,2-Dibromoethane | ND | 200 | 200 | | Tert-Butyl Alcohol (TBA) | ND | 2000 | 200 | |
| 1,2-Dichloroethane | ND | 100 | 200 | | Diisopropyl Ether (DIPE) | ND | 400 | 200 | |
| Ethylbenzene | 2800 | 200 | 200 | | Ethyl-t-Butyl Ether (ETBE) | ND | 400 | 200 | |
| Toluene | 8400 | 200 | 200 | | Tert-Amyl-Methyl Ether (TAME) | ND | 400 | 200 | |
| p/m-Xylene | 8500 | 200 | 200 | | TPPH | 120000 | 10000 | 200 | |
| o-Xylene | 3200 | 200 | 200 | | | | | | |

| Surrogates: | REC (%) | Control Limits | Qual | Surrogates: | REC (%) | Control Limits | Qual |
|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 106 | 74-140 | | 1,2-Dichloroethane-d4 | 128 | 74-146 | |
| Toluene-d8 | 103 | 88-112 | | Toluene-d8-TPPH | 100 | 88-112 | |
| 1,4-Bromofluorobenzene | 104 | 74-110 | | | | | |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

**Analytical Report**

| | | | |
|---|---|---|---|
| Blaine Tech Services, Inc. | | Date Received: | 08/14/08 |
| 1680 Rogers Avenue | | Work Order No: | 08-08-1234 |
| San Jose, CA 95112-1105 | | Preparation: | EPA 5030B |
| | | Method: | LUFT GC/MS / EPA 8260B |
| | | Units: | ug/L |

Project: 4411 Foothill Blvd., Oakland, CA



| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **S-8** | **08-08-1234-3-A** | **08/12/08 14:15** | **Aqueous** | **GC/MS OO** | **08/20/08** | **08/21/08 07:54** | **080820L02** |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 9300 | 50 | 100 | | Methyl-t-Butyl Ether (MTBE) | 210 | 100 | 100 | |
| 1,2-Dibromoethane | ND | 100 | 100 | | Tert-Butyl Alcohol (TBA) | ND | 1000 | 100 | |
| 1,2-Dichloroethane | ND | 50 | 100 | | Diisopropyl Ether (DIPE) | ND | 200 | 100 | |
| Ethylbenzene | 2500 | 100 | 100 | | Ethyl-t-Butyl Ether (ETBE) | ND | 200 | 100 | |
| Toluene | 3200 | 100 | 100 | | Tert-Amyl-Methyl Ether (TAME) | ND | 200 | 100 | |
| p/m-Xylene | 10000 | 100 | 100 | | TPPH | 77000 | 5000 | 100 | |
| o-Xylene | 4300 | 100 | 100 | | | | | | |

| Surrogates: | REC (%) | Control Limits | Qual | Surrogates: | REC (%) | Control Limits | Qual |
|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 117 | 74-140 | | 1,2-Dichloroethane-d4 | 143 | 74-146 | |
| Toluene-d8 | 103 | 88-112 | | Toluene-d8-TPPH | 100 | 88-112 | |
| 1,4-Bromofluorobenzene | 107 | 74-110 | | | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **S-9** | **08-08-1234-4-B** | **08/12/08 14:25** | **Aqueous** | **GC/MS OO** | **08/21/08** | **08/21/08 21:36** | **080821L01** |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 16 | 5.0 | 10 | | Methyl-t-Butyl Ether (MTBE) | ND | 10 | 10 | |
| 1,2-Dibromoethane | ND | 10 | 10 | | Tert-Butyl Alcohol (TBA) | ND | 100 | 10 | |
| 1,2-Dichloroethane | ND | 5.0 | 10 | | Diisopropyl Ether (DIPE) | ND | 20 | 10 | |
| Ethylbenzene | 700 | 10 | 10 | | Ethyl-t-Butyl Ether (ETBE) | ND | 20 | 10 | |
| Toluene | 59 | 10 | 10 | | Tert-Amyl-Methyl Ether (TAME) | ND | 20 | 10 | |
| p/m-Xylene | 800 | 10 | 10 | | TPPH | 9400 | 500 | 10 | |
| o-Xylene | 34 | 10 | 10 | | | | | | |

| Surrogates: | REC (%) | Control Limits | Qual | Surrogates: | REC (%) | Control Limits | Qual |
|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 102 | 74-140 | | 1,2-Dichloroethane-d4 | 105 | 74-146 | |
| Toluene-d8 | 100 | 88-112 | | Toluene-d8-TPPH | 98 | 88-112 | |
| 1,4-Bromofluorobenzene | 100 | 74-110 | | | | | |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

**Analytical Report**

| | | | |
|---|---|---|---|
| Blaine Tech Services, Inc. | | Date Received: | 08/14/08 |
| 1680 Rogers Avenue | | Work Order No: | 08-08-1234 |
| San Jose, CA 95112-1105 | | Preparation: | EPA 5030B |
| | | Method: | LUFT GC/MS / EPA 8260B |
| | | Units: | ug/L |

Project: 4411 Foothill Blvd., Oakland, CA



| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **Method Blank** | **099-12-767-127** | **N/A** | **Aqueous** | **GC/MS OO** | **08/20/08** | **08/20/08 16:17** | **080820L01** |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.50 | 1 | | Methyl-t-Butyl Ether (MTBE) | ND | 1.0 | 1 | |
| 1,2-Dibromoethane | ND | 1.0 | 1 | | Tert-Butyl Alcohol (TBA) | ND | 10 | 1 | |
| 1,2-Dichloroethane | ND | 0.50 | 1 | | Diisopropyl Ether (DIPE) | ND | 2.0 | 1 | |
| Ethylbenzene | ND | 1.0 | 1 | | Ethyl-t-Butyl Ether (ETBE) | ND | 2.0 | 1 | |
| Toluene | ND | 1.0 | 1 | | Tert-Amyl-Methyl Ether (TAME) | ND | 2.0 | 1 | |
| p/m-Xylene | ND | 1.0 | 1 | | TPPH | ND | 50 | 1 | |
| o-Xylene | ND | 1.0 | 1 | | | | | | |

| Surrogates: | REC (%) | Control Limits | Qual | Surrogates: | REC (%) | Control Limits | Qual |
|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 109 | 74-140 | | 1,2-Dichloroethane-d4 | 130 | 74-146 | |
| Toluene-d8 | 101 | 88-112 | | Toluene-d8-TPPH | 98 | 88-112 | |
| 1,4-Bromofluorobenzene | 100 | 74-110 | | | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **Method Blank** | **099-12-767-130** | **N/A** | **Aqueous** | **GC/MS OO** | **08/20/08** | **08/21/08 04:33** | **080820L02** |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.50 | 1 | | Methyl-t-Butyl Ether (MTBE) | ND | 1.0 | 1 | |
| 1,2-Dibromoethane | ND | 1.0 | 1 | | Tert-Butyl Alcohol (TBA) | ND | 10 | 1 | |
| 1,2-Dichloroethane | ND | 0.50 | 1 | | Diisopropyl Ether (DIPE) | ND | 2.0 | 1 | |
| Ethylbenzene | ND | 1.0 | 1 | | Ethyl-t-Butyl Ether (ETBE) | ND | 2.0 | 1 | |
| Toluene | ND | 1.0 | 1 | | Tert-Amyl-Methyl Ether (TAME) | ND | 2.0 | 1 | |
| p/m-Xylene | ND | 1.0 | 1 | | TPPH | ND | 50 | 1 | |
| o-Xylene | ND | 1.0 | 1 | | | | | | |

| Surrogates: | REC (%) | Control Limits | Qual | Surrogates: | REC (%) | Control Limits | Qual |
|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 110 | 74-140 | | 1,2-Dichloroethane-d4 | 131 | 74-146 | |
| Toluene-d8 | 101 | 88-112 | | Toluene-d8-TPPH | 99 | 88-112 | |
| 1,4-Bromofluorobenzene | 99 | 74-110 | | | | | |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

**Analytical Report**

| | | | |
|---|---|---|---|
| Blaine Tech Services, Inc. | | Date Received: | 08/14/08 |
| 1680 Rogers Avenue | | Work Order No: | 08-08-1234 |
| San Jose, CA 95112-1105 | | Preparation: | EPA 5030B |
| | | Method: | LUFT GC/MS / EPA 8260B |
| | | Units: | ug/L |

Project: 4411 Foothill Blvd., Oakland, CA



| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|---|---|---|---|---|---|---|---|
| **Method Blank** | **099-12-767-135** | **N/A** | **Aqueous** | **GC/MS OO** | **08/21/08** | **08/21/08 16:55** | **080821L01** |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.50 | 1 | | Methyl-t-Butyl Ether (MTBE) | ND | 1.0 | 1 | |
| 1,2-Dibromoethane | ND | 1.0 | 1 | | Tert-Butyl Alcohol (TBA) | ND | 10 | 1 | |
| 1,2-Dichloroethane | ND | 0.50 | 1 | | Diisopropyl Ether (DIPE) | ND | 2.0 | 1 | |
| Ethylbenzene | ND | 1.0 | 1 | | Ethyl-t-Butyl Ether (ETBE) | ND | 2.0 | 1 | |
| Toluene | ND | 1.0 | 1 | | Tert-Amyl-Methyl Ether (TAME) | ND | 2.0 | 1 | |
| p/m-Xylene | ND | 1.0 | 1 | | TPPH | ND | 50 | 1 | |
| o-Xylene | ND | 1.0 | 1 | | | | | | |

| Surrogates: | REC (%) | Control Limits | Qual | Surrogates: | REC (%) | Control Limits | Qual |
|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 113 | 74-140 | | 1,2-Dichloroethane-d4 | 135 | 74-146 | |
| Toluene-d8 | 101 | 88-112 | | Toluene-d8-TPPH | 100 | 88-112 | |
| 1,4-Bromofluorobenzene | 98 | 74-110 | | | | | |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

## Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 08/14/08
Work Order No: 08-08-1234
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---|---|---|---|---|---|
| **08-08-1107-1** | **Aqueous** | **GC/MS OO** | **08/20/08** | **08/20/08** | **080820S01** |

| Parameter | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|
| Benzene | 100 | 101 | 88-118 | 2 | 0-7 | |
| Carbon Tetrachloride | 125 | 127 | 67-145 | 2 | 0-11 | |
| Chlorobenzene | 94 | 96 | 88-118 | 2 | 0-7 | |
| 1,2-Dibromoethane | 105 | 109 | 70-130 | 4 | 0-30 | |
| 1,2-Dichlorobenzene | 88 | 96 | 86-116 | 9 | 0-8 | 4 |
| 1,1-Dichloroethene | 99 | 103 | 70-130 | 4 | 0-25 | |
| Ethylbenzene | 95 | 98 | 70-130 | 3 | 0-30 | |
| Toluene | 94 | 96 | 87-123 | 2 | 0-8 | |
| Trichloroethene | 96 | 99 | 79-127 | 3 | 0-10 | |
| Vinyl Chloride | 97 | 103 | 69-129 | 6 | 0-13 | |
| Methyl-t-Butyl Ether (MTBE) | 108 | 110 | 71-131 | 2 | 0-13 | |
| Tert-Butyl Alcohol (TBA) | 88 | 95 | 36-168 | 7 | 0-45 | |
| Diisopropyl Ether (DIPE) | 89 | 91 | 81-123 | 1 | 0-9 | |
| Ethyl-t-Butyl Ether (ETBE) | 96 | 97 | 72-126 | 2 | 0-12 | |
| Tert-Amyl-Methyl Ether (TAME) | 108 | 112 | 72-126 | 3 | 0-12 | |
| Ethanol | 93 | 94 | 53-149 | 1 | 0-31 | |

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

## Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 08/14/08
Work Order No: 08-08-1234
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---|---|---|---|---|---|
| **08-08-1233-1** | **Aqueous** | **GC/MS OO** | **08/20/08** | **08/21/08** | **080820S02** |

| Parameter | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|
| Benzene | 113 | 107 | 88-118 | 6 | 0-7 | |
| Carbon Tetrachloride | 143 | 143 | 67-145 | 0 | 0-11 | |
| Chlorobenzene | 105 | 101 | 88-118 | 4 | 0-7 | |
| 1,2-Dibromoethane | 122 | 109 | 70-130 | 11 | 0-30 | |
| 1,2-Dichlorobenzene | 100 | 95 | 86-116 | 5 | 0-8 | |
| 1,1-Dichloroethene | 105 | 99 | 70-130 | 6 | 0-25 | |
| Ethylbenzene | 106 | 105 | 70-130 | 2 | 0-30 | |
| Toluene | 108 | 104 | 87-123 | 3 | 0-8 | |
| Trichloroethene | 109 | 110 | 79-127 | 1 | 0-10 | |
| Vinyl Chloride | 87 | 111 | 69-129 | 23 | 0-13 | 4 |
| Methyl-t-Butyl Ether (MTBE) | 128 | 111 | 71-131 | 14 | 0-13 | 4 |
| Tert-Butyl Alcohol (TBA) | 109 | 87 | 36-168 | 23 | 0-45 | |
| Diisopropyl Ether (DIPE) | 110 | 100 | 81-123 | 9 | 0-9 | |
| Ethyl-t-Butyl Ether (ETBE) | 116 | 103 | 72-126 | 12 | 0-12 | |
| Tert-Amyl-Methyl Ether (TAME) | 129 | 116 | 72-126 | 11 | 0-12 | 3 |
| Ethanol | 111 | 95 | 53-149 | 16 | 0-31 | |

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

## Quality Control - Spike/Spike Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 08/14/08
Work Order No: 08-08-1234
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 4411 Foothill Blvd., Oakland, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---|---|---|---|---|---|
| **08-08-1329-6** | **Aqueous** | **GC/MS OO** | **08/21/08** | **08/21/08** | **080821S01** |

| Parameter | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|
| Benzene | 101 | 102 | 88-118 | 1 | 0-7 | |
| Carbon Tetrachloride | 130 | 132 | 67-145 | 1 | 0-11 | |
| Chlorobenzene | 97 | 99 | 88-118 | 2 | 0-7 | |
| 1,2-Dibromoethane | 103 | 106 | 70-130 | 3 | 0-30 | |
| 1,2-Dichlorobenzene | 91 | 96 | 86-116 | 6 | 0-8 | |
| 1,1-Dichloroethene | 92 | 91 | 70-130 | 1 | 0-25 | |
| Ethylbenzene | 100 | 101 | 70-130 | 1 | 0-30 | |
| Toluene | 98 | 100 | 87-123 | 2 | 0-8 | |
| Trichloroethene | 101 | 100 | 79-127 | 1 | 0-10 | |
| Vinyl Chloride | 107 | 116 | 69-129 | 8 | 0-13 | |
| Methyl-t-Butyl Ether (MTBE) | 106 | 106 | 71-131 | 0 | 0-13 | |
| Tert-Butyl Alcohol (TBA) | 86 | 90 | 36-168 | 5 | 0-45 | |
| Diisopropyl Ether (DIPE) | 92 | 93 | 81-123 | 1 | 0-9 | |
| Ethyl-t-Butyl Ether (ETBE) | 97 | 98 | 72-126 | 0 | 0-12 | |
| Tert-Amyl-Methyl Ether (TAME) | 109 | 111 | 72-126 | 2 | 0-12 | |
| Ethanol | 84 | 84 | 53-149 | 1 | 0-31 | |

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

## Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 08-08-1234
Preparation: EPA 3510C
Method: EPA 8015B

Project: 4411 Foothill Blvd., Oakland, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---|---|---|---|---|---|
| **099-12-211-619** | **Aqueous** | **GC 3** | **08/19/08** | **08/22/08** | **080819B12** |

| Parameter | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|
| Diesel Range Organics | 87 | 89 | 75-117 | 2 | 0-13 | |

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

## Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 08-08-1234
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---|---|---|---|---|---|
| **099-12-767-127** | **Aqueous** | **GC/MS OO** | **08/20/08** | **08/20/08** | **080820L01** |

| Parameter | LCS %REC | LCSD %REC | %REC CL | ME_CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|---|
| Benzene | 102 | 100 | 84-120 | 78-126 | 2 | 0-8 | |
| Carbon Tetrachloride | 125 | 121 | 63-147 | 49-161 | 4 | 0-10 | |
| Chlorobenzene | 96 | 96 | 89-119 | 84-124 | 1 | 0-7 | |
| 1,2-Dibromoethane | 109 | 108 | 80-120 | 73-127 | 1 | 0-20 | |
| 1,2-Dichlorobenzene | 95 | 96 | 89-119 | 84-124 | 1 | 0-9 | |
| 1,1-Dichloroethene | 103 | 99 | 77-125 | 69-133 | 4 | 0-16 | |
| Ethylbenzene | 97 | 96 | 80-120 | 73-127 | 1 | 0-20 | |
| Toluene | 98 | 96 | 83-125 | 76-132 | 2 | 0-9 | |
| Trichloroethene | 101 | 98 | 89-119 | 84-124 | 3 | 0-8 | |
| Vinyl Chloride | 101 | 100 | 63-135 | 51-147 | 1 | 0-13 | |
| Methyl-t-Butyl Ether (MTBE) | 112 | 111 | 82-118 | 76-124 | 1 | 0-13 | |
| Tert-Butyl Alcohol (TBA) | 91 | 93 | 46-154 | 28-172 | 2 | 0-32 | |
| Diisopropyl Ether (DIPE) | 93 | 92 | 81-123 | 74-130 | 2 | 0-11 | |
| Ethyl-t-Butyl Ether (ETBE) | 101 | 99 | 74-122 | 66-130 | 2 | 0-12 | |
| Tert-Amyl-Methyl Ether (TAME) | 113 | 113 | 76-124 | 68-132 | 1 | 0-10 | |
| Ethanol | 96 | 87 | 60-138 | 47-151 | 9 | 0-32 | |
| TPPH | 105 | 107 | 65-135 | 53-147 | 2 | 0-30 | |

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

## Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 08-08-1234
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---|---|---|---|---|---|
| **099-12-767-130** | **Aqueous** | **GC/MS OO** | **08/20/08** | **08/21/08** | **080820L02** |

| Parameter | LCS %REC | LCSD %REC | %REC CL | ME_CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|---|
| Benzene | 98 | 97 | 84-120 | 78-126 | 1 | 0-8 | |
| Carbon Tetrachloride | 119 | 119 | 63-147 | 49-161 | 0 | 0-10 | |
| Chlorobenzene | 92 | 92 | 89-119 | 84-124 | 1 | 0-7 | |
| 1,2-Dibromoethane | 104 | 109 | 80-120 | 73-127 | 5 | 0-20 | |
| 1,2-Dichlorobenzene | 91 | 90 | 89-119 | 84-124 | 1 | 0-9 | |
| 1,1-Dichloroethene | 90 | 88 | 77-125 | 69-133 | 3 | 0-16 | |
| Ethylbenzene | 92 | 93 | 80-120 | 73-127 | 1 | 0-20 | |
| Toluene | 93 | 92 | 83-125 | 76-132 | 1 | 0-9 | |
| Trichloroethene | 99 | 94 | 89-119 | 84-124 | 5 | 0-8 | |
| Vinyl Chloride | 102 | 99 | 63-135 | 51-147 | 3 | 0-13 | |
| Methyl-t-Butyl Ether (MTBE) | 110 | 111 | 82-118 | 76-124 | 1 | 0-13 | |
| Tert-Butyl Alcohol (TBA) | 92 | 95 | 46-154 | 28-172 | 4 | 0-32 | |
| Diisopropyl Ether (DIPE) | 95 | 93 | 81-123 | 74-130 | 1 | 0-11 | |
| Ethyl-t-Butyl Ether (ETBE) | 99 | 100 | 74-122 | 66-130 | 1 | 0-12 | |
| Tert-Amyl-Methyl Ether (TAME) | 113 | 113 | 76-124 | 68-132 | 0 | 0-10 | |
| Ethanol | 87 | 102 | 60-138 | 47-151 | 16 | 0-32 | |
| TPPH | 108 | 116 | 65-135 | 53-147 | 8 | 0-30 | |

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

## Quality Control - LCS/LCS Duplicate



Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 08-08-1234
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 4411 Foothill Blvd., Oakland, CA

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---|---|---|---|---|---|
| **099-12-767-135** | **Aqueous** | **GC/MS OO** | **08/21/08** | **08/21/08** | **080821L01** |

| Parameter | LCS %REC | LCSD %REC | %REC CL | ME_CL | RPD | RPD CL | Qualifiers |
|---|---|---|---|---|---|---|---|
| Benzene | 100 | 95 | 84-120 | 78-126 | 5 | 0-8 | |
| Carbon Tetrachloride | 124 | 124 | 63-147 | 49-161 | 0 | 0-10 | |
| Chlorobenzene | 95 | 95 | 89-119 | 84-124 | 0 | 0-7 | |
| 1,2-Dibromoethane | 110 | 105 | 80-120 | 73-127 | 5 | 0-20 | |
| 1,2-Dichlorobenzene | 90 | 93 | 89-119 | 84-124 | 3 | 0-9 | |
| 1,1-Dichloroethene | 90 | 88 | 77-125 | 69-133 | 2 | 0-16 | |
| Ethylbenzene | 97 | 97 | 80-120 | 73-127 | 0 | 0-20 | |
| Toluene | 95 | 93 | 83-125 | 76-132 | 2 | 0-9 | |
| Trichloroethene | 101 | 98 | 89-119 | 84-124 | 2 | 0-8 | |
| Vinyl Chloride | 105 | 110 | 63-135 | 51-147 | 4 | 0-13 | |
| Methyl-t-Butyl Ether (MTBE) | 113 | 103 | 82-118 | 76-124 | 9 | 0-13 | |
| Tert-Butyl Alcohol (TBA) | 93 | 88 | 46-154 | 28-172 | 6 | 0-32 | |
| Diisopropyl Ether (DIPE) | 98 | 91 | 81-123 | 74-130 | 7 | 0-11 | |
| Ethyl-t-Butyl Ether (ETBE) | 101 | 94 | 74-122 | 66-130 | 7 | 0-12 | |
| Tert-Amyl-Methyl Ether (TAME) | 114 | 103 | 76-124 | 68-132 | 10 | 0-10 | |
| Ethanol | 97 | 98 | 60-138 | 47-151 | 1 | 0-32 | |
| TPPH | 100 | 95 | 65-135 | 53-147 | 4 | 0-30 | |

Total number of LCS compounds : 17
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

## Glossary of Terms and Qualifiers

Work Order Number: 08-08-1234

| Qualifier | Definition |
|---|---|
| * | See applicable analysis comment. |
| 1 | Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification. |
| 2 | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| 3 | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification. |
| 4 | The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification. |
| 5 | The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required. |
| A | Result is the average of all dilutions, as defined by the method. |
| B | Analyte was present in the associated method blank. |
| C | Analyte presence was not confirmed on primary column. |
| E | Concentration exceeds the calibration range. |
| H | Sample received and/or analyzed past the recommended holding time. |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| ME | LCS Recovery Percentage is within LCS ME Control Limit range. |
| N | Nontarget Analyte. |
| ND | Parameter not detected at the indicated reporting limit. |
| Q | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| U | Undetected at the laboratory method detection limit. |
| X | % Recovery and/or RPD out-of-range. |
| Z | Analyte presence was not confirmed by second column or GC/MS analysis. |

# Shell Oil Products Chain Of Custody Record

**LAB (LOCATION)**
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

**Please Check Appropriate Box:**
☑ ENV. SERVICES | ☐ MOTIVA RETAIL | ☐ SHELL RETAIL
☐ MOTIVA SD&CM | ☐ CONSULTANT | ☐ LUBES
☐ SHELL PIPELINE | ☐ OTHER _____

**Print Bill To Contact Name:** Denis Brown

**PO #:**

**INCIDENT # (ENV SERVICES):** 98995746 ☐ CHECK IF NO INCIDENT # APPLIES

**SAP #:**

DATE: 8/12/08

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services | LOG CODE: BTSS

ADDRESS: 1680 Rogers Ave, San Jose, CA 95112

PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata

TELEPHONE: (408)573-0555 | FAX: (408)573-7771 | E-MAIL: mninokata@blainetech.com

SITE ADDRESS: Street and City: 4411 Foothill Blvd., Oakland | State: CA | GLOBAL ID NO.: T0600101065

EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville | PHONE NO.: (510) 420-3335 | E-MAIL: Shelledf@craworld.com | CONSULTANT PROJECT NO.: BTS #080812-ML1

SAMPLER NAME(S) (Print): B. Deshler / W. Lampe

LAB USE ONLY: 08 1234

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES :**

Run TPH-d w/Silica Gel Clean Up

☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

**REQUESTED ANALYSIS**

| LAB USE ONLY | Field Sample Identification | SAMPLING DATE | SAMPLING TIME | MATRIX | PRESERVATIVE HCL | HNO3 | H2SO4 | NONE | OTHER | NO. OF CONT. | TPH - Purgeable (8260B) | TPH - Extractable (8015M) | BTEX (8260B) | 5 Oxygenates (8260B) | MTBE (8260B) | TBA (8260B) | DIPE (8260B) | TAME (8260B) | ETBE (8260B) | 1,2 DCA (8260B) | EDB (8260B) | Ethanol (8260B) | Methanol (8015M) | TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + 1 | S-6 | 8/12/08 | 1420 | W | X | | | | | 5 | X | X | X | X | | | | | | X | X | | | |
| + 2 | S-7 | ↓ | 1435 | W | X | | | | | 5 | X | X | X | X | | | | | | X | X | | | |
| + 3 | S-8 | | 1415 | W | X | | | | | 5 | X | X | X | X | | | | | | X | X | | | |
| + 4 | S-9 | | 1425 | W | X | | | | | 5 | X | X | X | X | | | | | | X | X | | | |

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| | | 8/12/08 | 1602 |
| (Sample Custody) | Ian O'Malley CEL | 8/13/08 | 1215 |
| Ian O'Malley TO 650 8/13/08 1730 | | 8/14/08 | 1000 |

5101 71022

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

**WORK ORDER #: 08 - 08 - 1234**

**Cooler 1 of 1**

# SAMPLE RECEIPT FORM

**CLIENT:** Blaine Tech **DATE:** 8/14/08

## TEMPERATURE – SAMPLES RECEIVED BY:

**CALSCIENCE COURIER:**

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature (For Air & Filter Only).
___ ___ . ___ °C Temperature blank.

**LABORATORY (Other than Calscience Courier):**

3.9 °C Temperature blank.
___ ___ . ___ °C IR Thermometer.
_____ Ambient temperature (For Air & Filter Only).

Initial: HP

## CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: HP

## SAMPLE CONDITION:

| | Yes | No | N/A |
|---|---|---|---|
| Chain-Of-Custody document(s) received with samples | ✓ | | |
| Sampler's name indicated on COC | ✓ | | |
| Sample container label(s) consistent with custody papers | ✓ | | |
| Sample container(s) intact and good condition | ✓ | | |
| Correct containers and volume for analyses requested | ✓ | | |
| Proper preservation noted on sample label(s) | ✓ | | |
| VOA vial(s) free of headspace. | ✓ | | |
| Tedlar bag(s) free of condensation | | | ✓ |

Initial: HP

## COMMENTS:

# SHELL WELLHEAD INSPECTION FORM
(FOR SAMPLE TECHNICIAN)

Site Address 4411 Foothill BLVD OAKLAND Date 8/12/08

Job Number 080812-WL1 Technician B. Doshier / W. Lampe Page 1 of 1

| Well ID | Well Inspected - No Corrective Action Required | Well Box Meets Compliance Requirements *See Below | Water Bailed From Wellbox | Cap Replaced | Lock Replaced | Well Not Inspected (explain in notes) | New Deficiency Identified | Previously Identified Deficiency Persists | Notes |
|---|---|---|---|---|---|---|---|---|---|
| S-6 | X | | | | | | | X | No Tags |
| S-7 | X | | | | | | | X | No Tag |
| S-8 | X | | | | | | | X | No Tag |
| S-9 | X | | | | | | | X | No Tag |
| | | | | | | | | | |
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*Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12"or less) 2) WELL IS MARKED WITH THE WORDS "MONITORING WELL" (12"or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes:

# WELL GAUGING DATA

Project # 080812-WL1 Date 8/12/08 Client Shell

Site 4411 Foothill Blvd Oakland CA

| Well ID | Time | 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 | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| S-6 | 0846 | 4 | odor | | | | 9.21 | 19.62 | | |
| S-7 | 0855 | 4 | odor | | | | 9.81 | 19.91 | | |
| S-8 | 0844 | 4 | odor | | | | 9.10 | 19.60 | | |
| S-9 | 0856 | 4 | odor | | | | 10.00 | 19.55 | | |
| | | | | | | | | | | |
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# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 080812-WL1 | Site: 4411 Foothill Blvd. |
| Sampler: WL | Date: 8/12/08 |
| Well I.D.: S-6 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 19.62 | Depth to Water (DTW): 9.21 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.29 | |

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / ~~Electric~~ Submersible / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: ~~Bailer~~ / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

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

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

| Time | Temp (°F) | pH | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 0904 | 68.8 | 7.0 | 1891 | 14 | 6.7 | clear |
| 0905 | 69.4 | 6.9 | 1842 | 19 | 13.4 | ↓ |
| 0906 | 69.7 | 6.9 | 1837 | 12 | 20.1 | |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes (No) Gallons actually evacuated: 20.1

Sampling Date: 8/12/08 Sampling Time: 1420 Depth to Water: 9.29

Sample I.D.: S-6 Laboratory: STL Other Cal Scient

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

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

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 680812-WL1 | Site: 4411 Foothill Blvd. |
| Sampler: WL | Date: 8/12/08 |
| Well I.D.: S-7 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 19.91 | Depth to Water (DTW): 9.81 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.83 | |

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (X) Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other____

Sampling Method: (X) Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: ____

6.5 (Gals.) X 3 = 19.5 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 | radius$^2$ * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or µS) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 0915 | 68.0 | 6.8 | 1607 | 18 | 6.5 | odor clear |
| 0916 | 68.9 | 6.5 | 1586 | 23 | 13.0 | |
| | well dewatered @ 15 gallons | | | | | |
| 1435 | 73.4 | 6.7 | 1619 | 11 | — | clear/odor |
| | | | | | | |

Did well dewater? (Yes) No Gallons actually evacuated: 15

Sampling Date: 8/12/08 Sampling Time: 1435 Depth to Water: 10.01

Sample I.D.: S-7 Laboratory: STL Other Cal Science

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

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

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 080812-WL1 | Site: 95995746 |
| Sampler: BD | Date: 8/12/08 |
| Well I.D.: S-8 | Well Diameter: 2 3 (4) 6 8 ___ |
| Total Well Depth (TD): 19.60 | Depth to Water (DTW): 9.10 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.20 | |

Purge Method: Bailer, Disposable Bailer, Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: Bailer, Disposable Bailer, Extraction Port, Dedicated Tubing, Other: _____

| 6.8 (Gals.) X | 3 | = | 20.4 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 | radius$^2$ * 0.163 |

| Time | Temp (°F) | pH | Cond. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 0905 | 70.2 | 7.58 | 1287 | 32 | | clear/odor |
| 0906 | 69.8 | 7.29 | 1325 | 39 | | ↓ |
| 0907 | 69.1 | 7.21 | 1331 | 41 | | ↓ |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes (No) Gallons actually evacuated: 20.4

Sampling Date: 8/12/08 Sampling Time: 1415 Depth to Water: 10.80 +2hr

Sample I.D.: S-8 Laboratory: STL Other CAL SCI

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

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

# SHELL WELL MONITORING DATA SHEET

| | |
|---|---|
| BTS #: 080812-WL1 | Site: 9599 5746 |
| Sampler: BD | Date: 8/12/08 |
| Well I.D.: S-9 | Well Diameter: 2 3 (4) 6 8 ____ |
| Total Well Depth (TD): 19.55 | Depth to Water (DTW): 10.00 |
| Depth to Free Product: | Thickness of Free Product (feet): |
| Referenced to: (PVC) Grade | D.O. Meter (if req'd): YSI HACH |
| DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.91 | |

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / X Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other____

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

| 1 Case Volume | Specified Volumes | Calculated Volume |
|---|---|---|
| 6.2 (Gals.) X | 3 = | 18.6 Gals. |

| 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. (mS or (µS)) | Turbidity (NTUs) | Gals. Removed | Observations |
|---|---|---|---|---|---|---|
| 0922 | 66.6 | 6.56 | 1046 | 22 | 6.2 | clear / odor |
| 0923 | 66.2 | 6.52 | 837 | 5 | 12.4 | ↓ |
| 0924 | 66.1 | 6.54 | 830 | 5 | 18.6 | ↓ |
| | | | | | | |
| | | | | | | |

Did well dewater? Yes (No) Gallons actually evacuated: 18.6

Sampling Date: 8/12/08 Sampling Time: 1425 Depth to Water: 15.21 + 2hr recharge

Sample I.D.: S-9 Laboratory: STL Other CAL SCI

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

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

# SHELL SITE INSPECTION CHECKLIST

Client Shell Date 5-29-08

Site Address 4411 Foothill Blvd.

Job Number 080529-EC2 Technician EC

**Site Status** ____ Branded Station Vacant Lot (Other) mini Plaza

| | | |
|---|---|---|
| **Inspected / Labeled / Cleaned - all wells on Scope Of Work** | ☒ | |
| **Inspected / Cleaned Components - all other identifiable wells** | ☐ | N/A |
| **Inspected site for site investigation & site remediation related trip hazards** | ☒ | |
| **Completed all outstanding *BLAINE Wellhead Repair Order(s)*** | ☐ | N/A |
| **Completed *Shell Wellhead Repair Form(s)*** | ☐ | N/A |
| **Inspected treatment / remediation system compound for security, cleanliness and appearance** | ☐ | N/A |
| **Inspected vacant lot for signs of habitation, hazardous materials or terrain, overgrown vegetation and security** | ☐ | N/A |
| **Visually inspected site drums for condition and proper labeling** | ☐ | N/A |
| **Unresolved deficiencies identified - *"Notice of Deficient Condition"* form(s) completed** | ☐ | N/A |

**Notes** ____

PROJECT MANAGER ONLY

**Checklist Reviewed** mrd 6/4 Notes
Initial/Date

# SHELL WELLHEAD REPAIR FORM
## (FOR REPAIR TECHNICIAN)

Site Address 4411 Foothill Blvd. Date 5-29-08

Job Number 080529-EC2 Technician EC Page 1 of 1

| Inspection Point (Well ID or description of location) | Well Inspected, Cleaned, Labeled - No Further Corrective Action Required | Replaced Cap | Replaced Lock | Replaced Lid Seal | Check Indicates deficiency: Casing | Annular Seal | Tabs / Bolts | Box Structure | Apron | Trip Hazard | Below Grade | Not Securable by Design (12" diameter or less) | Lid not marked with words "MONITORING WELL" | Other Deficiency | Not Securable by Design (greater than 12" diameter) | Well Not Inspected (explain in notes) | All Repairs Completed | Remaining Deficiencies Logged onto *BLAINE Repair Order* | Remaining Deficiencies Logged onto *Notice of Deficient Condition* - BLAINE Unable to Repair |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-6 | | | | X | | | | | | | | | | | | | 1 | X | |
| | Notes: no tag | | | | | | | | | | | | | | | | | | |
| | Well box type / size: EMCO 12" Materials used: | | | | | | | | | | | | | | | | | | |
| S-7 | | | | X | | X | | | | | | | | | | | | X | |
| | Notes: no tag | | | | | | | | | | | | | | | | | | |
| | Well box type / size: EMCO 12" Materials used: 1 RS 1 bag Conc. | | | | | | | | | | | | | | | | | | |
| S-8 | | | | X | | | | | | | | | | | | | | X | |
| | Notes: no tag | | | | | | | | | | | | | | | | | | |
| | Well box type / size: EMCO 12" Materials used: 1 RS | | | | | | | | | | | | | | | | | | |
| S-9 | | | | X | | | | | | | | | | | | | | X | |
| | Notes: no tag | | | | | | | | | | | | | | | | | | |
| | Well box type / size: EMCO 12" Materials used: 1 RS | | | | | | | | | | | | | | | | | | |
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| | Notes: | | | | | | | | | | | | | | | | | | |
| | Well box type / size: Materials used: | | | | | | | | | | | | | | | | | | |
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| | Notes: | | | | | | | | | | | | | | | | | | |
| | Well box type / size: Materials used: | | | | | | | | | | | | | | | | | | |
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| | Notes: | | | | | | | | | | | | | | | | | | |
| | Well box type / size: Materials used: | | | | | | | | | | | | | | | | | | |