Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 1257
San Ramon, California 94583
Phone: (925) 275-3801
Fax: (925) 275-3815

26 October 2007

Re: Third Quarter 2007 Ground-Water Monitoring Report
Atlantic Richfield Company (a BP affiliated company) Station #276
10600 MacArthur Boulevard
Oakland, California
ACEH Case #RO0002565

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Submitted by:

Paul Supple
Environmental Business Manager

**Third Quarter 2007 Ground-Water Monitoring Report**
Atlantic Richfield Company Station #276
10600 MacArthur Boulevard
Oakland, California

Prepared for

Mr. Paul Supple
Environmental Business Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

1324 Mangrove Avenue, Suite 212
Chico, California 95926
(530) 566-1400
*www.broadbentinc.com*

26 October 2007

Project No. 06-08-601

Broadbent & Associates, Inc.
1324 Mangrove Ave., Suite 212
Chico, CA 95926
Voice (530) 566-1400
Fax (530) 566-1401

BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

26 October 2007 Project No. 06-08-601

Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583
Submitted via ENFOS

Attn.: Mr. Paul Supple

Re: Third Quarter 2007 Report, Atlantic Richfield Company (a BP affiliated company)
Station #276, 10600 MacArthur Boulevard, Oakland, Alameda County, California
ACEH Case #RO0002565

Dear Mr. Supple:

Provided herein is the *Third Quarter 2007 Ground-Water Monitoring Report* for Atlantic Richfield Company Station #276 (herein referred to as Station #276) located at 10600 MacArthur Boulevard, Oakland, Alameda County, California (Property). This report presents results of ground-water monitoring conducted during the Third Quarter of 2007.

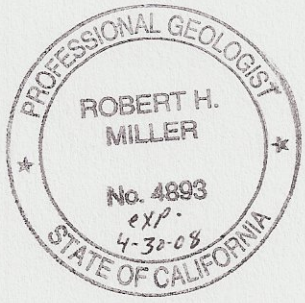
Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E.
Senior Engineer

Robert H. Miller, P.G., C.HG.
Principal Hydrogeologist




Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp site)
Electronic copy uploaded to GeoTracker

# STATION #276 QUARTERLY GROUND-WATER MONITORING REPORT

| | |
|---|---|
| Facility: #276 Address: | 10600 MacArthur Boulevard, Oakland, California |
| Environmental Business Manager: | Mr. Paul Supple |
| Consulting Co./Contact Persons: | Broadbent & Associates, Inc.(BAI)/Rob Miller & Tom Venus<br>(530) 566-1400 |
| Consultant Project No.: | 06-08-601 |
| Primary Agency/Regulatory ID No.: | Alameda County Environmental Health (ACEH)<br>ACEH Case #RO0002565 |
| Facility Permits/Permitting Agency: | NA |

**WORK PERFORMED THIS QUARTER (Third Quarter 2007):**

1. Prepared and submitted Second Quarter 2007 Ground-Water Monitoring Report.
2. Conducted ground-water monitoring/sampling for Third Quarter 2007. Work performed on 14 August 2007 by Stratus Environmental, Inc (Stratus).

**WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter 2007):**

1. Prepared and submitted Third Quarter 2007 Ground-Water Monitoring Report (contained herein).
2. Conduct quarterly ground-water monitoring/sampling for Fourth Quarter 2007.

**QUARTERLY RESULTS SUMMARY:**

| | |
|---|---|
| Current phase of project: | **Ground-water monitoring/sampling** |
| Frequency of ground-water monitoring: | **Quarterly = MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, RW-1, WGR-3** |
| Frequency of ground-water sampling: | **Quarterly = MW-2, MW-5, and MW-8**<br>**Semi-Annually (1Q and 3Q) = MW-6 and MW-7**<br>**Annually (1Q) = MW-1, MW-3, MW-4, WGR-3,and RW-1** |
| Is free product (FP) present on-site: | **No** |
| Current remediation techniques: | **NA** |
| Depth to ground water (below TOC): | **17.40 ft (MW-2) to 35.10 ft (MW-6)** |
| General ground-water flow direction: | **South-southwest** |
| Approximate hydraulic gradient: | **0.004 ft/ft** |

**DISCUSSION:**

Third quarter 2007 ground-water monitoring and sampling was conducted at Station #276 on 14 August 2007 by Stratus. Water levels were gauged in the 10 wells at the Site. No irregularities were noted during water level gauging. Depth to water measurements ranged from 17.40 ft at MW-2 to 35.10 ft at MW-6. Resulting ground-water surface elevations ranged from 42.81 ft above mean sea level (msl) in well MW-2 to 31.04 ft above msl in well MW-8. Water level elevations were between historic minimum and maximum ranges for each well, as summarized in Table 1, with the following exceptions: an historic minimum water level elevation was observed in well WGR-3 at 40.89 ft above msl. Water level elevations yielded a potentiometric ground-water flow direction and gradient to the south-southwest at approximately 0.004 ft/ft, consistent with historical data (see Table 3). Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground-water and respective ground-water elevations are summarized in Table 1. Potentiometric ground-water elevation contours are presented in Drawing 1.

Consistent with the current ground-water sampling schedule, water samples were collected from wells MW-2 and MW-5 through MW-8 on 14 August 2007. No irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to Test America Analytical Testing Corporation (Morgan Hill, California), for analysis of Gasoline Range Organics (GRO, C4-12) by the LUFT GCMS Method; for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B; and tert-Amyl methyl ether (TAME), tert-Butyl alcohol (TBA), Di-isopropyl ether(DIPE), 1,2-Dibromomethane (EDB), 1,2-Dichloroethane (1,2-DCA), Ethanol, Ethyl tert-butyl ether (ETBE), Tetrachloroethene (PCE), and Methyl tert-butyl ether (MTBE) by EPA Method 8260B. The laboratory reported that the GRO concentrations for samples collected from wells MW-5 and MW-6 was partly due to individual peak(s) in the quantitation range. No other significant irregularities were encountered during laboratory analysis of the samples. Ground-water sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A.

Gasoline range organics (GRO) were detected above the laboratory reporting limits in each of the wells sampled at concentrations up to 1,900 micrograms per liter (µg/L) in well MW-7. Benzene was detected above the laboratory reporting limit in one of the five wells sampled at a concentration of 1.2 µg/L in well MW-7. Ethylbenzene was detected above the laboratory reporting limit in one of the five wells sampled at a concentration of 2.7 µg/L in well MW-7. Total Xylenes were detected above the laboratory reporting limit in one of the five wells sampled at a concentration of 1.3 µg/L in well MW-7. TAME was detected above the laboratory reporting limit in four of the five wells sampled at concentrations up to 39 µg/L in well MW-8. DIPE was detected above the laboratory reporting limit in one of the five wells sampled at a concentration of 0.73 µg/L in well MW-5. 1,2-DCA was detected above the laboratory reporting limit in two of the five wells sampled at concentrations up to 5.4 µg/L in well MW-5. MTBE was detected above the laboratory reporting limit in each of the wells sampled at concentrations up to 510 µg/L in well MW-8. PCE was detected above the laboratory reporting limit in three of the five wells sampled at concentrations up to 640 µg/L in well MW-6. The remaining fuel additives and oxygenates were not detected above their laboratory reporting limits in the five wells sampled this quarter.

Detected analyte concentrations were within the historic minimum and maximum ranges recorded for each well. Historic laboratory analytical results are summarized in Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 1. A copy of the Laboratory Analytical Report, including chain-of-custody documentation is provided in Appendix A. Ground-water monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation pages are provided in Appendix B.

**CLOSURE:**

The findings presented in this report are based upon: observations of Stratus field personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Test America (Morgan Hill, California). Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of Atlantic Richfield Company. It is possible that variations in soil or ground-water conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

**ATTACHMENTS:**

Drawing 1. Ground-Water Elevation Contour and Analytical Summary Map, 14 August 2007, Station #276, 10600 MacArthur Boulevard, Oakland, California

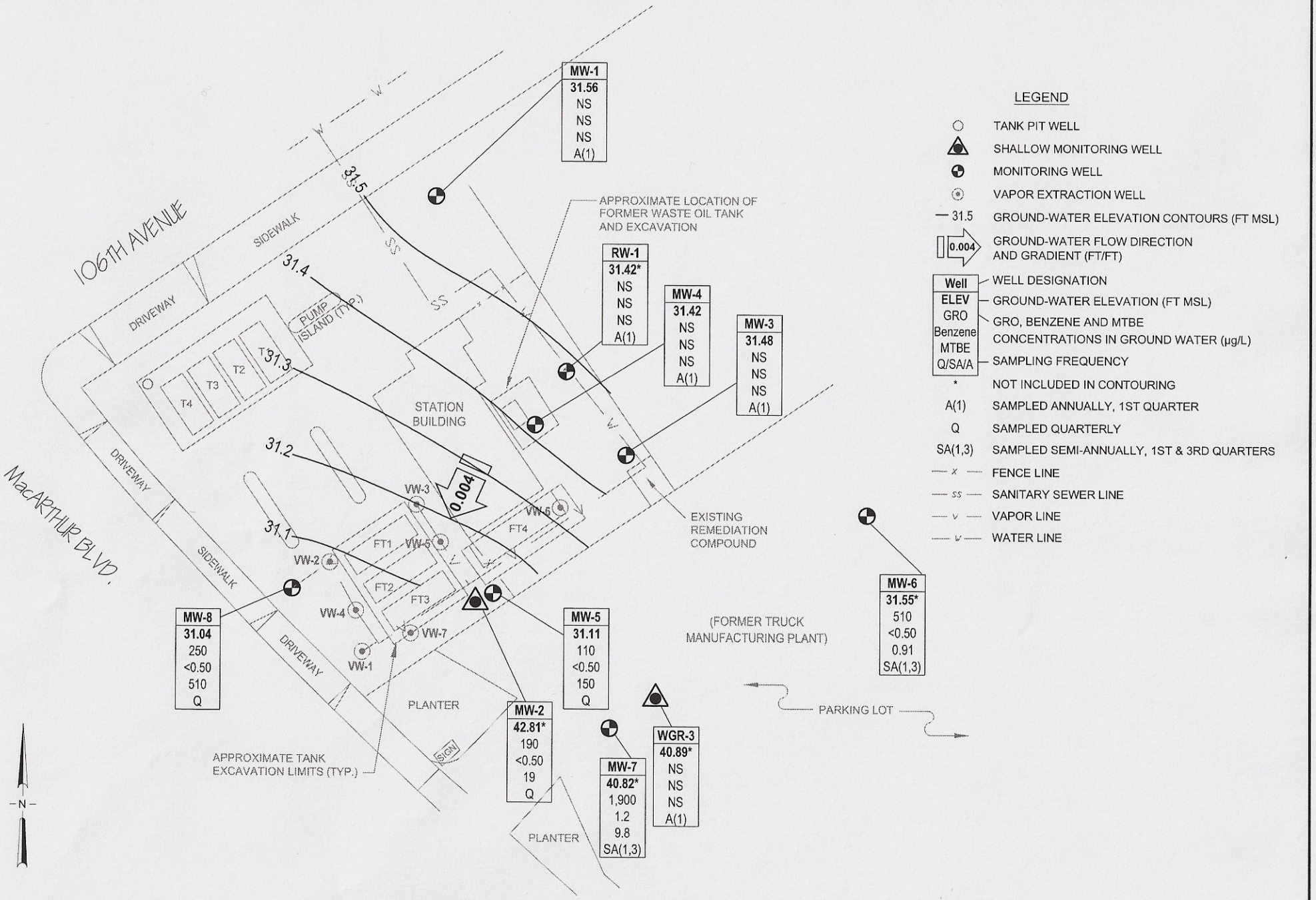
Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #276, 10600 MacArthur Blvd., Oakland, CA

Table 2. Summary of Fuel Additives Analytical Data, Station #276, 10600 MacArthur Blvd., Oakland, CA

Table 3. Historical Ground-Water Flow Direction and Gradient, Station #276, 10600 MacArthur Blvd., Oakland, CA

Appendix A. Stratus Ground-Water Sampling Data Package (Includes Field Data Sheets and Laboratory Analytical Report with Chain-of-Custody Documentation)

Appendix B. GeoTracker Upload Confirmation




0 40 80

SCALE (ft)

**BROADBENT & ASSOCIATES, INC.**

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

1324 Mangrove Ave. Suite 212, Chico, California

Project No.: 06-08-601 Date: 10/23/07

Station #276
10600 MacArthur Boulevard
Oakland, California

Ground-Water Elevation Contour and Analytical Summary Map
14 August 2007

Drawing
1

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | P/NP | Comments | TOC (feet msl) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet bgs) | Water Level Elevation (feet msl) | Concentrations in (µg/L) | | | | | | DO (mg/L) | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | GRO/ TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | |
| **MW-1** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | | 55.92 | 23.50 | **28.50** | 29.16 | 26.76 | 5.09 | -- | -- | -- | -- | -- | -- | -- |
| 12/28/2001 | -- | | 55.92 | 23.50 | **28.50** | 27.38 | 28.54 | 8.8 | -- | -- | -- | -- | -- | -- | -- |
| 11/27/2002 | NP | | 55.92 | 23.50 | **28.50** | 29.45 | 26.47 | 4.2 | -- | -- | -- | -- | -- | 2.3 | 6.7 |
| 7/22/2003 | NP | | 55.92 | 23.50 | **28.50** | 27.58 | 28.34 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 3.1 | 6.7 |
| 11/07/2003 | NP | | 55.92 | 23.50 | 28.50 | 30.42 | 25.50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.1 | 6.6 |
| 02/03/2004 | NP | | 55.92 | 23.50 | 28.50 | 38.80 | 17.12 | -- | -- | -- | -- | -- | -- | 1.5 | -- |
| 05/04/2004 | NP | g | 61.26 | 23.50 | 28.50 | 26.67 | 34.59 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 6.6 |
| 08/12/2004 | NP | | 61.26 | 23.50 | 28.50 | 29.49 | 31.77 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.2 | 6.6 |
| 11/10/2004 | NP | | 61.26 | 23.50 | 28.50 | 30.29 | 30.97 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.1 | 6.6 |
| 02/03/2005 | NP | | 61.26 | 23.50 | 28.50 | 26.23 | 35.03 | -- | -- | -- | -- | -- | -- | 0.89 | -- |
| 05/09/2005 | -- | | 61.26 | 23.50 | 28.50 | 22.93 | 38.33 | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/11/2005 | -- | | 61.26 | 23.50 | 28.50 | 26.11 | 35.15 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/18/2005 | -- | | 61.26 | 23.50 | 28.50 | 29.14 | 32.12 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/01/2006 | NP | i | 61.26 | 23.50 | 28.50 | 24.15 | 37.11 | 53 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.6 | 6.7 |
| 5/30/2006 | -- | | 61.26 | 23.50 | **28.50** | 21.25 | 40.01 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8/10/2006 | -- | | 61.26 | 23.50 | 28.50 | 24.70 | 36.56 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/2/2006 | -- | | 61.26 | 23.50 | 28.50 | 27.71 | 33.55 | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/6/2007 | NP | | 61.26 | 23.50 | 28.50 | 28.12 | 33.14 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.15 | 7.57 |
| 5/8/2007 | -- | | 61.26 | 23.50 | 28.50 | 27.27 | 33.99 | -- | -- | -- | -- | -- | -- | -- | -- |
| **8/14/2007** | -- | | **61.26** | **23.50** | **28.50** | **29.70** | **31.56** | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-2** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | | 55.10 | 15.00 | **25.00** | 15.72 | 39.38 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/28/2001 | -- | | 55.10 | 15.00 | **25.00** | 27.38 | 27.72 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/27/2002 | -- | | 55.10 | 15.00 | **25.00** | 16.35 | 38.75 | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/22/2003 | -- | | 55.10 | 15.00 | **25.00** | 16.20 | 38.90 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/07/2003 | P | | 55.10 | 15.00 | 25.00 | 18.22 | 36.88 | 990 | <5.0 | <5.0 | <5.0 | <5.0 | 110 | 1.8 | 6.7 |
| 02/03/2004 | P | | 55.10 | 15.00 | 25.00 | 13.63 | 41.47 | 180 | <2.5 | <2.5 | 2.6 | 4.1 | 55 | 1.8 | 6.5 |
| 05/04/2004 | P | g | 60.21 | 15.00 | 25.00 | 15.76 | 44.45 | 290 | <2.5 | <2.5 | <2.5 | <2.5 | 70 | 0.6 | 6.3 |
| 08/12/2004 | P | | 60.21 | 15.00 | 25.00 | 17.21 | 43.00 | <250 | <2.5 | <2.5 | 3.2 | <2.5 | 49 | 1.6 | 6.6 |
| 11/10/2004 | P | | 60.21 | 15.00 | 25.00 | 15.90 | 44.31 | 270 | <1.0 | <1.0 | 1.6 | <1.0 | 90 | 0.9 | 6.2 |

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | P/NP | Comments | TOC (feet msl) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet bgs) | Water Level Elevation (feet msl) | Concentrations in (µg/L) | | | | | | DO (mg/L) | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | GRO/ TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | |
| **MW-2 Cont.** | | | | | | | | | | | | | | | |
| 02/03/2005 | P | | 60.21 | 15.00 | 25.00 | 14.29 | 45.92 | 480 | 1.7 | <0.50 | 2.0 | 1.4 | 37 | 1.53 | 6.5 |
| 05/09/2005 | P | | 60.21 | 15.00 | 25.00 | 14.38 | 45.83 | 320 | <0.50 | <0.50 | <0.50 | 0.64 | 56 | 0.57 | 6.5 |
| 08/11/2005 | P | | 60.21 | 15.00 | 25.00 | 15.97 | 44.24 | 320 | <0.50 | <0.50 | <0.50 | <0.50 | 50 | 1.0 | 6.3 |
| 11/18/2005 | P | | 60.21 | 15.00 | 25.00 | 17.66 | 42.55 | 990 | 3.2 | 0.64 | 3.8 | 1.6 | 49 | 3.23 | 6.5 |
| 02/01/2006 | P | | 60.21 | 15.00 | 25.00 | 12.50 | 47.71 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 3.1 | 1.0 | 6.4 |
| 5/30/2006 | P | | 60.21 | 15.00 | 25.00 | 13.25 | 46.96 | 280 | <0.50 | <0.50 | <0.50 | <0.50 | 64 | 1.76 | 6.5 |
| 8/11/2006 | P | Water Levels 8/10 | 60.21 | 15.00 | 25.00 | 15.90 | 44.31 | 210 | <0.50 | <0.50 | <0.50 | <0.50 | 28 | 0.63 | 6.4 |
| 11/2/2006 | P | | 60.21 | 15.00 | 25.00 | 17.38 | 42.83 | 270 | 0.64 | <0.50 | <0.50 | <0.50 | 40 | 1.41 | 6.82 |
| 2/6/2007 | NP | i | 60.21 | 15.00 | 25.00 | 15.48 | 44.73 | 110 | <0.50 | <0.50 | <0.50 | <0.50 | 39 | 0.67 | 6.95 |
| 5/8/2007 | NP | | 60.21 | 15.00 | 25.00 | 15.40 | 44.81 | 140 | <0.50 | <0.50 | <0.50 | <0.50 | 25 | 0.84 | 6.85 |
| **8/14/2007** | **NP** | | **60.21** | **15.00** | **25.00** | **17.40** | **42.81** | **190** | **<0.50** | **<0.50** | **<0.50** | **<0.50** | **19** | **0.71** | **6.75** |
| **MW-3** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | | 56.55 | 22.00 | 27.00 | 29.78 | 26.77 | 158 | -- | -- | -- | -- | -- | -- | -- |
| 12/28/2001 | -- | | 56.55 | 22.00 | 27.00 | 27.95 | 28.60 | 310 | 20 | 1.5 | 13 | -- | -- | -- | -- |
| 11/27/2002 | NP | | 56.55 | 22.00 | 27.00 | 30.10 | 26.45 | 110 | -- | -- | -- | -- | -- | 2.0 | 7.2 |
| 7/22/2003 | NP | | 56.55 | 22.00 | 27.00 | 28.32 | 28.23 | 120 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.2 | 5.9 |
| 11/07/2003 | NP | | 56.55 | 22.00 | 27.00 | 30.86 | 25.69 | 70 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.8 | 6.5 |
| 02/03/2004 | NP | | 56.55 | 22.00 | 27.00 | 27.65 | 28.90 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.1 | 6.7 |
| 05/04/2004 | NP | g | 61.89 | 22.00 | 27.00 | 27.57 | 34.32 | <100 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.6 | 6.4 |
| 08/12/2004 | NP | | 61.89 | 22.00 | 27.00 | 30.31 | 31.58 | 52 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.6 | 6.3 |
| 11/10/2004 | NP | | 61.89 | 22.00 | 27.00 | 31.00 | 30.89 | 91 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.6 | 6.7 |
| 02/03/2005 | NP | i | 61.89 | 22.00 | 27.00 | 26.85 | 35.04 | 180 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.25 | 6.5 |
| 05/09/2005 | -- | | 61.89 | 22.00 | 27.00 | 23.72 | 38.17 | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/11/2005 | -- | | 61.89 | 22.00 | 27.00 | 26.84 | 35.05 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/18/2005 | -- | | 61.89 | 22.00 | 27.00 | 29.82 | 32.07 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/01/2006 | NP | | 61.89 | 22.00 | 27.00 | 24.80 | 37.09 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.4 | 6.4 |
| 5/30/2006 | -- | | 61.89 | 22.00 | 27.00 | 21.77 | 40.12 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8/10/2006 | -- | | 61.89 | 22.00 | 27.00 | 25.37 | 36.52 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/2/2006 | -- | | 61.89 | 22.00 | 27.00 | 28.43 | 33.46 | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/6/2007 | NP | i | 61.86 | 22.00 | 27.00 | 28.85 | 33.01 | 50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.27 | 8.63 |

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | P/NP | Comments | TOC (feet msl) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet bgs) | Water Level Elevation (feet msl) | Concentrations in (µg/L) | | | | | | DO (mg/L) | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | GRO/ TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | |
| **MW-3 Cont.** | | | | | | | | | | | | | | | |
| 5/8/2007 | -- | | 61.86 | 22.00 | 27.00 | 27.98 | 33.88 | -- | -- | -- | -- | -- | -- | -- | -- |
| **8/14/2007** | -- | | **61.86** | **22.00** | **27.00** | **30.41** | **31.45** | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-4** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | | 55.98 | 25.00 | **45.00** | 29.22 | 26.76 | 225 | -- | -- | -- | -- | -- | -- | -- |
| 12/28/2001 | -- | | 55.98 | 25.00 | **45.00** | 27.37 | 28.61 | 160 | 1.2 | -- | -- | -- | -- | -- | -- |
| 11/27/2002 | NP | | 55.98 | 25.00 | **45.00** | 29.55 | 26.43 | 95 | -- | -- | -- | -- | -- | 3.7 | 6.7 |
| 7/22/2003 | NP | | 55.98 | 25.00 | **45.00** | 27.73 | 28.25 | 130 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.9 | 6.6 |
| 11/07/2003 | NP | | 55.98 | 25.00 | 45.00 | 30.41 | 25.57 | 59 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.6 | 6.5 |
| 02/03/2004 | NP | | 55.98 | 25.00 | 45.00 | 27.01 | 28.97 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 4.2 | 7.1 |
| 05/04/2004 | NP | g | 61.30 | 25.00 | 45.00 | 26.91 | 34.39 | <100 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.1 | 6.5 |
| 08/12/2004 | NP | | 61.30 | 25.00 | 45.00 | 29.76 | 31.54 | 58 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.3 | 6.4 |
| 11/10/2004 | NP | | 61.30 | 25.00 | 45.00 | 30.40 | 30.90 | 69 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.4 | 6.6 |
| 02/03/2005 | NP | i | 61.30 | 25.00 | 45.00 | 26.28 | 35.02 | 51 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 3.77 | 6.8 |
| 05/09/2005 | -- | | 61.30 | 25.00 | 45.00 | 23.14 | 38.16 | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/11/2005 | -- | | 61.30 | 25.00 | 45.00 | 26.23 | 35.07 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/18/2005 | -- | | 61.30 | 25.00 | 45.00 | 29.24 | 32.06 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/01/2006 | P | i | 61.30 | 25.00 | 45.00 | 24.20 | 37.10 | 330 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.7 | 7.0 |
| 5/30/2006 | -- | | 61.30 | 25.00 | **45.00** | 21.26 | 40.04 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8/10/2006 | -- | | 61.30 | 25.00 | 45.00 | 24.62 | 36.68 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/2/2006 | -- | | 61.30 | 25.00 | 45.00 | 27.90 | 33.40 | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/6/2007 | NP | i | 61.30 | 25.00 | 45.00 | 28.28 | 33.02 | 55 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.21 | 8.28 |
| 5/8/2007 | -- | | 61.30 | 25.00 | 45.00 | 27.40 | 33.90 | -- | -- | -- | -- | -- | -- | -- | -- |
| **8/14/2007** | -- | | **61.30** | **25.00** | **45.00** | **29.88** | **31.42** | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | | 55.43 | 23.50 | **31.50** | 28.82 | 26.61 | 1,040 | -- | -- | -- | -- | -- | -- | -- |
| 12/28/2001 | -- | | 55.43 | 23.50 | **31.50** | 26.91 | 28.52 | 3,200 | 190 | 2/4/1900 | 140 | 1.9/3.2/2.0 | -- | -- | -- |
| 11/27/2002 | P | | 55.43 | 23.50 | **31.50** | 29.15 | 26.28 | 110 | -- | -- | -- | -- | -- | 1.4 | 6.4 |
| 7/22/2003 | P | | 55.43 | 23.50 | **31.50** | 27.43 | 28.00 | 160 | <1.0 | <1.0 | <1.0 | <1.0 | 110 | 1.5 | 6.6 |
| 11/07/2003 | P | | 55.43 | 23.50 | 31.50 | 29.99 | 25.44 | <250 | <2.5 | <2.5 | <2.5 | <2.5 | 120 | 0.6 | 6.2 |

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | P/NP | Comments | TOC (feet msl) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet bgs) | Water Level Elevation (feet msl) | Concentrations in (µg/L) | | | | | | DO (mg/L) | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | GRO/ TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | |
| **MW-5 Cont.** | | | | | | | | | | | | | | | |
| 02/03/2004 | P | | 55.43 | 23.50 | 31.50 | 26.55 | 28.88 | 85 | <2.5 | <2.5 | <2.5 | <2.5 | 71 | 1.7 | 6.7 |
| 05/04/2004 | P | g | 60.73 | 23.50 | 31.50 | 26.47 | 34.26 | <250 | <2.5 | <2.5 | <2.5 | <2.5 | 150 | 0.9 | 6.2 |
| 08/12/2004 | P | | 60.73 | 23.50 | 31.50 | 29.49 | 31.24 | <250 | <2.5 | <2.5 | <2.5 | <2.5 | 140 | 1.8 | 6.3 |
| 11/10/2004 | P | | 60.73 | 23.50 | 31.50 | 30.15 | 30.58 | 170 | <1.0 | <1.0 | <1.0 | <1.0 | 150 | 1.0 | 6.3 |
| 02/03/2005 | P | | 60.73 | 23.50 | 31.50 | 25.85 | 34.88 | 100 | <0.50 | <0.50 | <0.50 | <0.50 | 16 | 1.65 | 6.5 |
| 05/09/2005 | P | | 60.73 | 23.50 | 31.50 | 22.85 | 37.88 | 340 | <2.5 | <2.5 | <2.5 | <2.5 | 140 | 0.87 | 6.3 |
| 08/11/2005 | P | | 60.73 | 23.50 | 31.50 | 26.05 | 34.68 | <250 | <2.5 | <2.5 | <2.5 | <2.5 | 160 | 1.6 | 6.3 |
| 11/18/2005 | P | | 60.73 | 23.50 | 31.50 | 29.07 | 31.66 | <250 | <2.5 | <2.5 | <2.5 | <2.5 | 120 | 1.98 | 6.3 |
| 02/01/2006 | P | i | 60.73 | 23.50 | 31.50 | 23.70 | 37.03 | 520 | <1.2 | <1.2 | <1.2 | <1.2 | 100 | 0.4 | 6.4 |
| 5/30/2006 | P | | 60.73 | 23.50 | 31.50 | 21.03 | 39.70 | 220 | <2.5 | <2.5 | <2.5 | <2.5 | 230 | 1.32 | 6.3 |
| 8/11/2006 | P | Water Levels 8/10 | 60.73 | 23.50 | 31.50 | 24.77 | 35.96 | 150 | <2.5 | <2.5 | <2.5 | <2.5 | 170 | 0.68 | 6.1 |
| 11/2/2006 | P | | 60.73 | 23.50 | 31.50 | 27.65 | 33.08 | 100 | <1.0 | <1.0 | <1.0 | <1.0 | 160 | 1.43 | 6.52 |
| 2/6/2007 | NP | i | 60.73 | 23.50 | 31.50 | 28.00 | 32.73 | 150 | <1.0 | <1.0 | <1.0 | <1.0 | 120 | 1.19 | 7.33 |
| 5/8/2007 | NP | i | 60.73 | 23.50 | 31.50 | 27.12 | 33.61 | 130 | <1.0 | <1.0 | <1.0 | <1.0 | 180 | 0.82 | 6.42 |
| **8/14/2007** | **NP** | **i** | **60.73** | **23.50** | **31.50** | **29.62** | **31.11** | **110** | **<0.50** | **<0.50** | **<0.50** | **<0.50** | **150** | **1.32** | **6.97** |
| **MW-6** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | | 61.21 | 37.50 | 56.00 | 34.61 | 26.60 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/28/2001 | -- | | 61.21 | 37.50 | 56.00 | 32.80 | 28.41 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/27/2002 | -- | | 61.21 | 37.50 | 56.00 | 35.00 | 26.21 | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/22/2003 | -- | | 61.21 | 37.50 | 56.00 | 33.17 | 28.04 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/07/2003 | P | d, e | 61.21 | 37.50 | 56.00 | 35.70 | 25.51 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2.7 | 6.9 |
| 02/03/2004 | P | | 61.21 | 37.50 | 56.00 | 32.17 | 29.04 | 84 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | 1.9 | 7.0 |
| 05/04/2004 | P | g | 66.65 | 37.50 | 56.00 | 32.07 | 34.58 | <250 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | 2.0 | 6.7 |
| 08/12/2004 | P | | 66.65 | 37.50 | 56.00 | 34.90 | 31.75 | 660 | <0.50 | <0.50 | <0.50 | <0.50 | 0.81 | 1.4 | 6.9 |
| 11/10/2004 | P | | 66.65 | 37.50 | 56.00 | 35.70 | 30.95 | 640 | <0.50 | <0.50 | <0.50 | <0.50 | 0.89 | 2.6 | 6.8 |
| 02/03/2005 | P | i | 66.65 | 37.50 | 56.00 | 31.48 | 35.17 | 77 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.73 | 7.0 |
| 05/09/2005 | -- | | 66.65 | 37.50 | 56.00 | 28.37 | 38.28 | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/11/2005 | P | | 66.65 | 37.50 | 56.00 | 31.40 | 35.25 | 630 | <0.50 | <0.50 | <0.50 | <0.50 | 0.77 | 1.9 | 6.3 |
| 11/18/2005 | -- | | 66.65 | 37.50 | 56.00 | 34.50 | 32.15 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/01/2006 | P | i | 66.65 | 37.50 | 56.00 | 29.40 | 37.25 | 760 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2.1 | 6.9 |

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | P/NP | Comments | TOC (feet msl) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet bgs) | Water Level Elevation (feet msl) | Concentrations in (µg/L) | | | | | | DO (mg/L) | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | GRO/ TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | |
| **MW-6 Cont.** | | | | | | | | | | | | | | | |
| 5/30/2006 | -- | | 66.65 | 37.50 | 56.00 | 26.51 | 40.14 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8/11/2006 | P | Water Levels 8/10 | 66.65 | 37.50 | 56.00 | 30.10 | 36.55 | 790 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 1.32 | 6.7 |
| 11/2/2006 | -- | | 66.65 | 37.50 | 56.00 | 33.12 | 33.53 | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/6/2007 | P | i | 66.65 | 37.50 | 56.00 | 33.53 | 33.12 | 510 | <0.50 | <0.50 | <0.50 | <0.50 | 0.80 | 0.68 | 6.84 |
| 5/8/2007 | -- | | 66.65 | 37.50 | 56.00 | 32.65 | 34.00 | -- | -- | -- | -- | -- | -- | -- | -- |
| **8/14/2007** | **P** | **i** | **66.65** | **37.50** | **56.00** | **35.10** | **31.55** | **510** | **<0.50** | **<0.50** | **<0.50** | **<0.50** | **0.91** | **1.60** | **7.10** |
| **MW-7** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | | 58.22 | 17.50 | 37.5 | 19.94 | 38.28 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/28/2001 | -- | | 58.22 | 17.50 | 37.5 | 17.29 | 40.93 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/27/2002 | -- | | 58.22 | 17.50 | 37.5 | 21.30 | 36.92 | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/22/2003 | -- | | 58.22 | 17.50 | 37.5 | 21.36 | 36.86 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/07/2003 | P | d | 58.22 | 17.50 | 37.5 | 23.76 | 34.46 | 3,200 | 15 | <2.5 | 130 | 11 | 53 | 2.2 | 6.8 |
| 02/03/2004 | P | | 58.22 | 17.50 | 37.5 | 17.74 | 40.48 | 53 | <0.50 | <0.50 | <0.50 | 0.54 | 32 | 1.9 | 6.4 |
| 02/03/2005 | P | | 63.54 | 17.50 | 37.5 | 18.13 | 45.41 | 61 | <0.50 | <0.50 | <0.50 | <0.50 | 14 | 3.39 | 6.5 |
| 05/09/2005 | -- | | 63.54 | 17.50 | 37.5 | 18.39 | 45.15 | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/11/2005 | P | | 63.54 | 17.50 | 37.5 | 21.47 | 42.07 | 1,500 | 1.8 | <1.0 | 4.2 | 1.2 | 21 | 2.0 | 6.3 |
| 11/18/2005 | -- | | 63.54 | 17.50 | 37.5 | 22.41 | 41.13 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/01/2006 | P | | 63.54 | 17.50 | 37.5 | 16.65 | 46.89 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.8 | 1.3 | 6.3 |
| 5/30/2006 | -- | | 63.54 | 17.50 | 37.50 | 19.22 | 44.32 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8/11/2006 | P | Water Levels 8/10 | 63.54 | 17.50 | 37.50 | 21.28 | 42.26 | 1,800 | 1.3 | 0.55 | 5.0 | 1.4 | 41 | 1.22 | 6.4 |
| 11/2/2006 | -- | | 63.54 | 17.50 | 37.50 | 22.61 | 40.93 | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/6/2007 | NP | | 63.54 | 17.50 | 37.50 | 19.79 | 43.75 | 530 | <0.50 | <0.50 | <0.50 | <0.50 | 8.4 | 0.93 | 7.23 |
| 5/8/2007 | -- | | 63.54 | 17.50 | 37.50 | 19.62 | 43.92 | -- | -- | -- | -- | -- | -- | -- | -- |
| **8/14/2007** | **NP** | | **63.54** | **17.50** | **37.50** | **22.72** | **40.82** | **1,900** | **1.2** | **<0.50** | **2.7** | **1.3** | **9.8** | **0.94** | **7.5** |
| **MW-8** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | | 53.65 | 29.00 | 49.00 | 27.02 | 26.63 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/28/2001 | -- | | 53.65 | 29.00 | 49.00 | 24.99 | 28.66 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/27/2002 | -- | | 53.65 | 29.00 | 49.00 | 27.45 | 26.20 | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/22/2003 | -- | | 53.65 | 29.00 | 49.00 | 25.74 | 27.91 | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | P/NP | Comments | TOC (feet msl) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet bgs) | Water Level Elevation (feet msl) | Concentrations in (µg/L) | | | | | | DO (mg/L) | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | GRO/ TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | |
| **MW-8 Cont.** | | | | | | | | | | | | | | | |
| 11/07/2003 | P | | 53.65 | 29.00 | 49.00 | 28.27 | 25.38 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | 440 | 2.6 | 6.5 |
| 02/03/2004 | P | f | 53.65 | 29.00 | 49.00 | 24.80 | 28.85 | 170 | <12 | <12 | <12 | <12 | 470 | 3.0 | 6.7 |
| 05/04/2004 | P | g | 58.96 | 29.00 | 49.00 | 24.81 | 34.15 | <1,000 | <10 | <10 | <10 | <10 | 700 | 3.8 | 6.4 |
| 08/12/2004 | P | | 58.96 | 29.00 | 49.00 | 27.72 | 31.24 | <2,500 | <25 | <25 | <25 | <25 | 400 | 3.4 | 6.5 |
| 11/10/2004 | P | | 58.96 | 29.00 | 49.00 | 28.41 | 30.55 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | 480 | 3.4 | 6.3 |
| 02/03/2005 | P | | 58.96 | 29.00 | 49.00 | 24.01 | 34.95 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 45 | 1.43 | 6.4 |
| 05/09/2005 | P | i | 58.96 | 29.00 | 49.00 | 21.07 | 37.89 | 640 | <5.0 | <5.0 | <5.0 | <5.0 | 440 | 1.06 | 6.4 |
| 08/11/2005 | P | | 58.96 | 29.00 | 49.00 | 24.32 | 34.64 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | 420 | 5.0 | 6.1 |
| 11/18/2005 | P | | 58.96 | 29.00 | 49.00 | 27.35 | 31.61 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | 390 | 3.51 | 6.4 |
| 02/01/2006 | P | i | 58.96 | 29.00 | 49.00 | 22.00 | 36.96 | 520 | <5.0 | <5.0 | <5.0 | <5.0 | 600 | 0.5 | 6.3 |
| 5/30/2006 | P | | 58.96 | 29.00 | **49.00** | 19.25 | 39.71 | 310 | <5.0 | <5.0 | <5.0 | <5.0 | 480 | 1.35 | 6.3 |
| 8/11/2006 | P | Water Levels 8/10 | 58.96 | 29.00 | 49.00 | 22.95 | 36.01 | 320 | <0.50 | <0.50 | <0.50 | <0.50 | 630 | 0.65 | 6.2 |
| 11/2/2006 | P | | 58.96 | 29.00 | 49.00 | 25.98 | 32.98 | 370 | <2.5 | <2.5 | <2.5 | <2.5 | 660 | 1.46 | 6.61 |
| 2/6/2007 | P | i | 58.96 | 29.00 | 49.00 | 26.27 | 32.69 | 66 | <0.50 | <0.50 | <0.50 | <0.50 | 60 | 0.65 | 6.64 |
| 5/8/2007 | P | i, j (MTBE) | 58.96 | 29.00 | 49.00 | 25.35 | 33.61 | 440 | <0.50 | <0.50 | <0.50 | <0.50 | 490 | 1.35 | 6.60 |
| **8/14/2007** | **P** | | **58.96** | **29.00** | **49.00** | **27.92** | **31.04** | **250** | **<0.50** | **<0.50** | **<0.50** | **<0.50** | **510** | **2.80** | **6.88** |
| **RW-1** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | | 56.32 | 36.00 | **51.00** | 29.57 | 26.75 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/28/2001 | -- | | 56.32 | 36.00 | **51.00** | 27.64 | 28.68 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/27/2002 | -- | | 56.32 | 36.00 | **51.00** | 29.93 | 26.39 | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/22/2003 | -- | | 56.32 | 36.00 | **51.00** | 28.09 | 28.23 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/07/2003 | P | | 56.32 | 36.00 | 51.00 | 30.64 | 25.68 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 3.1 | 7.0 |
| 02/03/2004 | P | | 56.32 | 36.00 | 51.00 | 27.28 | 29.04 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 6.7 | 7.1 |
| 05/04/2004 | P | g | 61.65 | 36.00 | 51.00 | 27.16 | 34.49 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 4.4 | 6.8 |
| 08/12/2004 | P | | 61.65 | 36.00 | 51.00 | 30.10 | 31.55 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.2 | 7.1 |
| 11/10/2004 | P | | 61.65 | 36.00 | 51.00 | 30.79 | 30.86 | <100 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.7 | 6.9 |
| 02/03/2005 | P | | 61.65 | 36.00 | 51.00 | 26.61 | 35.04 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.57 | 7.1 |
| 05/09/2005 | -- | | 61.65 | 36.00 | 51.00 | 23.51 | 38.14 | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/11/2005 | -- | | 61.65 | 36.00 | 51.00 | 26.60 | 35.05 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/18/2005 | -- | | 61.65 | 36.00 | 51.00 | 29.65 | 32.00 | -- | -- | -- | -- | -- | -- | -- | -- |

**Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | P/NP | Comments | TOC (feet msl) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet bgs) | Water Level Elevation (feet msl) | Concentrations in (µg/L) | | | | | | DO (mg/L) | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | GRO/ TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | |
| **RW-1 Cont.** | | | | | | | | | | | | | | | |
| 02/01/2006 | P | | 61.65 | 36.00 | 51.00 | 24.65 | 37.00 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.5 | 7.0 |
| 5/30/2006 | -- | | 61.65 | 36.00 | 51.00 | 21.69 | 39.96 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8/10/2006 | -- | | 61.65 | 36.00 | 51.00 | 25.31 | 36.34 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/2/2006 | -- | | 61.65 | 36.00 | 51.00 | 28.28 | 33.37 | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/6/2007 | NP | | 61.65 | 36.00 | 51.00 | 28.63 | 33.02 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.21 | 6.92 |
| 5/8/2007 | -- | | 61.65 | 36.00 | 51.00 | 27.77 | 33.88 | -- | -- | -- | -- | -- | -- | -- | -- |
| **8/14/2007** | -- | | **61.65** | **36.00** | **51.00** | **30.23** | **31.42** | -- | -- | -- | -- | -- | -- | -- | -- |
| **WGR-3** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | | -- | -- | -- | 19.21 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/28/2001 | -- | h | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/27/2002 | -- | | -- | -- | -- | 20.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 7/22/2003 | -- | | -- | -- | -- | 20.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/04/2004 | P | g | 63.27 | -- | -- | 19.53 | 43.74 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 11 | 1.8 | 6.5 |
| 08/12/2004 | P | | 63.27 | -- | -- | 22.20 | 41.07 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 35 | 2.0 | -- |
| 11/10/2004 | P | | 63.27 | -- | -- | 19.98 | 43.29 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.6 | 0.3 | 6.3 |
| 02/03/2005 | P | | 63.27 | -- | -- | 16.91 | 46.36 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.1 | 2.04 | 6.5 |
| 05/09/2005 | -- | | 63.27 | -- | -- | 17.29 | 45.98 | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/11/2005 | -- | | 63.27 | -- | -- | 20.88 | 42.39 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/18/2005 | -- | | 63.27 | -- | -- | 22.15 | 41.12 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/01/2006 | P | | 63.27 | -- | -- | 14.90 | 48.37 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.3 | 2.0 | 6.5 |
| 5/30/2006 | -- | | 63.27 | -- | -- | 18.39 | 44.88 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8/10/2006 | -- | | 63.27 | -- | -- | 20.63 | 42.64 | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/2/2006 | -- | | 63.27 | -- | -- | 20.32 | 42.95 | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/6/2007 | P | | 63.27 | -- | -- | 18.52 | 44.75 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 4.4 | 0.89 | 6.87 |
| 5/8/2007 | -- | | 63.27 | -- | -- | 18.41 | 44.86 | -- | -- | -- | -- | -- | -- | -- | -- |
| **8/14/2007** | -- | | **63.27** | -- | -- | **22.38** | **40.89** | -- | -- | -- | -- | -- | -- | -- | -- |

SYMBOLS & ABBREVIATIONS:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
BTEX = Benzene, toluene, ethylbenzene and xylenes
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = Feet below ground surface
ft MSL = Feet above mean sea level
GRO = Gasoline range organics
GWE = Groundwater elevation measured in ft MSL
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Not purged prior to sampling
P = Purged prior to sampling
TOC = Top of casing measured in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter

FOOTNOTES:
a = 1,1 DCE; this footnote is no longer applicable.
b = 1,2 DCA; this footnote is no longer applicable.
c = Chlorobenzene; this footnote is no longer applicable.
d = Sample was originally analyzed within the EPA recommended hold time. Re-analysis for confirmation or dilution was performed past the recommended hold time. Results may still be used for intended purpose.
e = The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
f = Discrete peak @ C5 for GRO/TPH-g.
g = Site was re-surveyed to NAVD' 88 on January 26, 2004.
h = Well was dry.
i = Hydrocarbon result for GRO partly due to individual peak(s) in quantitative range.
j = Initial analysis within holding time but required dilution.

NOTES:
Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported.

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12.

Groundwater samples were analyzed by EPA method 8015B for GRO and EPA method 8260B for BTEX, fuel oxygenates, ethanol, and PCE.

Values for pH and DO levels are field measurements.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

**Table 2. Summary of Fuel Additives Analytical Data**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | Concentrations in (µg/L) | | | | | | | | | | | | | | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ethanol | TBA | MtBE | DIPE | EtBE | TAME | 1,2-DCA | EDB | trans-1,2 | cis-1,2 | VOC | Oxygen | PCE | TCE | |
| **MW-1** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.09 | -- | |
| 12/28/2001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.8 | -- | |
| 11/27/2002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.2 | -- | |
| 7/22/2003 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | 6.0 | -- | |
| 11/07/2003 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | | | 3.0 | -- | |
| 02/03/2004 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 05/04/2004 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 34 | -- | |
| 08/12/2004 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 4.5 | -- | |
| 11/10/2004 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 4.9 | -- | |
| 02/03/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | e |
| 05/09/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 08/11/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 11/18/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 02/01/2006 | <300 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 38 | -- | e |
| 5/30/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 8/11/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 11/2/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 2/6/2007 | <300 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | -- | -- | |
| **MW-2** | | | | | | | | | | | | | | | |
| 11/07/2003 | <1,000 | <200 | 110 | <5.0 | <5.0 | 28 | -- | -- | -- | -- | | | <5.0 | -- | |
| 02/03/2004 | <500 | <100 | 55 | <5.0 | <5.0 | 16 | <2.5 | <2.5 | -- | -- | | | <2.5 | -- | |
| 05/04/2004 | <500 | <100 | 70 | <2.5 | <2.5 | 15 | <2.5 | <2.5 | -- | -- | | | <2.5 | -- | |
| 08/12/2004 | <500 | <100 | 49 | <2.5 | <2.5 | 14 | <2.5 | <2.5 | -- | -- | | | <0.50 | -- | |
| 11/10/2004 | <200 | <40 | 90 | <1.0 | <1.0 | 19 | <1.0 | <1.0 | -- | -- | | | <1.0 | -- | |
| 02/03/2005 | <100 | <20 | 37 | <0.50 | <0.50 | 13 | <0.50 | <0.50 | -- | -- | | | <0.50 | -- | e |
| 05/09/2005 | <100 | <20 | 56 | <0.50 | <0.50 | 17 | <0.50 | <0.50 | -- | -- | | | <0.50 | -- | e |
| 08/11/2005 | <100 | <20 | 50 | <0.50 | <0.50 | 8.5 | <0.50 | <0.50 | -- | -- | | | <0.50 | -- | |
| 11/18/2005 | <100 | <20 | 49 | <0.50 | <0.50 | 11 | <0.50 | <0.50 | -- | -- | | | <0.50 | -- | f |
| 02/01/2006 | <300 | <20 | 3.1 | <0.50 | <0.50 | 0.52 | <0.50 | <0.50 | -- | -- | | | <0.50 | -- | e |
| 5/30/2006 | <300 | <20 | 64 | <0.50 | <0.50 | 12 | <0.50 | <0.50 | -- | -- | -- | -- | <0.50 | -- | |
| 8/11/2006 | <300 | <20 | 28 | <0.50 | <0.50 | 5.9 | <0.50 | <0.50 | -- | -- | -- | -- | <0.50 | -- | |

**Table 2. Summary of Fuel Additives Analytical Data**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | Concentrations in (µg/L) | | | | | | | | | | | | | | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ethanol | TBA | MtBE | DIPE | EtBE | TAME | 1,2-DCA | EDB | trans-1,2 | cis-1,2 | VOC | Oxygen | PCE | TCE | |
| **MW-2 Cont.** | | | | | | | | | | | | | | | |
| 11/2/2006 | <300 | <20 | 40 | <0.50 | <0.50 | 7.9 | <0.50 | <0.50 | -- | -- | -- | -- | <0.50 | -- | |
| 2/6/2007 | <300 | <20 | 39 | <0.50 | <0.50 | 9.2 | <0.50 | <0.50 | -- | -- | -- | -- | -- | -- | |
| 5/8/2007 | <300 | <20 | 25 | <0.50 | <0.50 | 5.4 | <0.50 | <0.50 | -- | -- | -- | -- | <0.50 | -- | |
| **8/14/2007** | **<300** | **<20** | **19** | **<0.50** | **<0.50** | **3.4** | **<0.50** | **<0.50** | **--** | **--** | **--** | **--** | **<0.50** | **--** | |
| **MW-3** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 158 | -- | |
| 12/28/2001 | -- | -- | -- | -- | -- | -- | -- | -- | 1.5 | 13 | -- | -- | 310 | 20 | |
| 11/27/2002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 110 | -- | |
| 7/22/2003 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | 80 | -- | |
| 11/07/2003 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | | | 80 | -- | |
| 02/03/2004 | <100 | <20 | <0.50 | <1.0 | <1.0 | <1.0 | <0.50 | <0.50 | -- | -- | | | 110 | -- | |
| 05/04/2004 | <200 | <40 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- | -- | | | 110 | -- | |
| 08/12/2004 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 61 | -- | |
| 11/10/2004 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 99 | -- | |
| 02/03/2005 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 160 | -- | e |
| 05/09/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 08/11/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 11/18/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 02/01/2006 | <300 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 110 | -- | e |
| 5/30/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 8/11/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 11/2/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 2/6/2007 | <300 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | -- | -- | |
| **MW-4** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 225 | -- | |
| 12/28/2001 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 160 | 1.2 | |
| 11/27/2002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 95 | -- | |
| 7/22/2003 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | 94 | -- | |
| 11/07/2003 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | | | 68 | -- | |
| 02/03/2004 | <100 | <20 | <0.50 | <1.0 | <1.0 | <1.0 | <0.50 | <0.50 | -- | -- | | | 83 | -- | |

**Table 2. Summary of Fuel Additives Analytical Data**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | Concentrations in (µg/L) | | | | | | | | | | | | | | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ethanol | TBA | MtBE | DIPE | EtBE | TAME | 1,2-DCA | EDB | trans-1,2 | cis-1,2 | VOC | Oxygen | PCE | TCE | |
| **MW-4 Cont.** | | | | | | | | | | | | | | | |
| 05/04/2004 | <200 | <40 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | -- | -- | | | 81 | -- | |
| 08/12/2004 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 59 | -- | |
| 11/10/2004 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 78 | -- | |
| 02/03/2005 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 61 | -- | e |
| 05/09/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 08/11/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 11/18/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 02/01/2006 | <300 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 320 | -- | e |
| 5/30/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 8/11/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 11/2/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 2/6/2007 | <300 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | -- | -- | |
| **MW-5** | | | | | | | | | | | | | | | |
| 12/17/2000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1,040 | -- | |
| 12/28/2001 | -- | -- | -- | -- | -- | -- | -- | -- | 36 | 140 | 1.9, 3.2, 2.0 | -- | 3,200 | 190 | a,b,c |
| 11/27/2002 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 110 | -- | |
| 7/22/2003 | <200 | <40 | 110 | 1.4 | <1.0 | 3.2 | 12 | <1.0 | -- | -- | -- | -- | 55 | -- | |
| 11/07/2003 | <500 | <100 | 120 | <2.5 | <2.5 | 6.6 | -- | -- | -- | -- | | | 42 | -- | |
| 02/03/2004 | <500 | <100 | 71 | <5.0 | <5.0 | <5.0 | 12 | <2.5 | -- | -- | | | 130 | -- | |
| 05/04/2004 | <500 | <100 | 150 | <2.5 | <2.5 | 5.9 | 8.8 | <2.5 | -- | -- | | | 36 | -- | |
| 08/12/2004 | <500 | <100 | 140 | <2.5 | <2.5 | 10 | 10 | <2.5 | -- | -- | | | 37 | -- | |
| 11/10/2004 | <200 | <40 | 150 | 1.1 | <1.0 | 9.5 | 9.8 | <1.0 | -- | -- | | | 50 | -- | |
| 02/03/2005 | <100 | <20 | 16 | <0.50 | <0.50 | 0.54 | 2.7 | <0.50 | -- | -- | | | 480 | -- | e |
| 05/09/2005 | <500 | <100 | 140 | <2.5 | <2.5 | 9.2 | 10 | <2.5 | -- | -- | | | 78 | -- | e |
| 08/11/2005 | <500 | <100 | 160 | <2.5 | <2.5 | 10 | 9.6 | <2.5 | -- | -- | | | 27 | -- | |
| 11/18/2005 | <500 | <100 | 120 | <2.5 | <2.5 | 9.2 | 10 | <2.5 | -- | -- | | | 19 | -- | f |
| 02/01/2006 | <750 | <50 | 100 | <1.2 | <1.2 | 5.1 | 7.4 | <1.2 | -- | -- | | | 470 | -- | e |
| 5/30/2006 | <1,500 | <100 | 230 | <2.5 | <2.5 | 11 | 11 | <2.5 | -- | -- | -- | -- | 48 | -- | |
| 8/11/2006 | <1,500 | <100 | 170 | <2.5 | <2.5 | 14 | 9.2 | <2.5 | -- | -- | -- | -- | 24 | -- | |
| 11/2/2006 | <600 | <40 | 160 | <1.0 | <1.0 | 12 | 7.8 | <1.0 | -- | -- | -- | -- | 9.8 | -- | |
| 2/6/2007 | <600 | <40 | 120 | <1.0 | <1.0 | 13 | 4.6 | <1.0 | -- | -- | -- | -- | -- | -- | |

**Table 2. Summary of Fuel Additives Analytical Data**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | Concentrations in (µg/L) | | | | | | | | | | | | | | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ethanol | TBA | MtBE | DIPE | EtBE | TAME | 1,2-DCA | EDB | trans-1,2 | cis-1,2 | VOC | Oxygen | PCE | TCE | |
| **MW-5 Cont.** | | | | | | | | | | | | | | | |
| 5/8/2007 | <600 | <40 | 180 | <1.0 | <1.0 | 16 | 8.6 | <1.0 | -- | -- | -- | -- | 9.0 | -- | |
| **8/14/2007** | **<300** | **<20** | **150** | **0.73** | **<0.50** | **14** | **5.4** | **<0.50** | -- | -- | -- | -- | **5.6** | -- | |
| **MW-6** | | | | | | | | | | | | | | | |
| 11/07/2003 | <1,000 | <200 | <5.0 | <5.0 | <5.0 | <5.0 | -- | -- | -- | -- | | | 560 | -- | |
| 02/03/2004 | <500 | <100 | <2.5 | <5.0 | <5.0 | <5.0 | <2.5 | <2.5 | -- | -- | | | 220 | -- | |
| 05/04/2004 | <500 | <100 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | -- | -- | | | 210 | -- | |
| 08/12/2004 | <100 | <20 | 0.81 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 750 | -- | |
| 11/10/2004 | <100 | <20 | 0.89 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 530 | -- | |
| 02/03/2005 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 85 | -- | e |
| 05/09/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 08/11/2005 | <100 | <20 | 0.77 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 610 | -- | |
| 11/18/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 02/01/2006 | <3,000 | <200 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | -- | -- | | | 690 | -- | e |
| 8/11/2006 | <3,000 | <200 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | -- | -- | -- | -- | 880 | -- | |
| 2/6/2007 | <300 | <20 | 0.80 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | -- | -- | |
| **8/14/2007** | **<300** | **<20** | **0.91** | **<0.50** | **<0.50** | **<0.50** | **<0.50** | **<0.50** | -- | -- | -- | -- | **640** | -- | |
| **MW-7** | | | | | | | | | | | | | | | |
| 11/07/2003 | <500 | <100 | 53 | <2.5 | <2.5 | 13 | -- | -- | -- | -- | | | <2.5 | -- | |
| 02/03/2004 | <100 | <20 | 32 | <1.0 | <1.0 | 7.4 | <0.50 | <0.50 | -- | -- | | | 0.74 | -- | |
| 02/03/2005 | <100 | <20 | 14 | <0.50 | <0.50 | 3.9 | <0.50 | <0.50 | -- | -- | | | 1.6 | -- | e |
| 05/09/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 08/11/2005 | <200 | <40 | 21 | <1.0 | <1.0 | 4.7 | <1.0 | <1.0 | -- | -- | | | 1.0 | -- | e |
| 11/18/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 02/01/2006 | <300 | <20 | 1.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 0.71 | -- | e |
| 8/11/2006 | <300 | <20 | 41 | <0.50 | <0.50 | 9.0 | <0.50 | <0.50 | -- | -- | -- | -- | <0.50 | -- | |
| 2/6/2007 | <300 | <20 | 8.4 | <0.50 | <0.50 | 2.2 | <0.50 | <0.50 | -- | -- | -- | -- | <0.50 | -- | |
| **8/14/2007** | **<300** | **<20** | **9.8** | **<0.50** | **<0.50** | **1.8** | **<0.50** | **<0.50** | -- | -- | -- | -- | **<0.50** | -- | |
| **MW-8** | | | | | | | | | | | | | | | |
| 11/07/2003 | <1,000 | <200 | 440 | <5.0 | <5.0 | 18 | -- | -- | -- | -- | | | <5.0 | -- | |
| 02/03/2004 | <2,500 | <500 | 470 | <25 | <25 | <25 | <12 | <12 | -- | -- | | | <12 | -- | |

**Table 2. Summary of Fuel Additives Analytical Data**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | Concentrations in (µg/L) | | | | | | | | | | | | | | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ethanol | TBA | MtBE | DIPE | EtBE | TAME | 1,2-DCA | EDB | trans-1,2 | cis-1,2 | VOC | Oxygen | PCE | TCE | |
| **MW-8 Cont.** | | | | | | | | | | | | | | | |
| 05/04/2004 | <2,000 | <400 | 700 | <10 | <10 | 21 | <10 | <10 | -- | -- | | | 12 | -- | |
| 08/12/2004 | <5,000 | <1,000 | 400 | <25 | <25 | <25 | <25 | <25 | -- | -- | | | 1.1 | -- | |
| 11/10/2004 | <1,000 | <200 | 480 | <5.0 | <5.0 | 21 | <5.0 | <5.0 | -- | -- | | | 8.9 | -- | |
| 02/03/2005 | <100 | <20 | 45 | <0.50 | <0.50 | 1.9 | <0.50 | <0.50 | -- | -- | | | 0.59 | -- | e |
| 05/09/2005 | <1,000 | <200 | 440 | <5.0 | <5.0 | 21 | <5.0 | <5.0 | -- | -- | | | <5.0 | -- | e |
| 08/11/2005 | <1,000 | <200 | 420 | <5.0 | <5.0 | 24 | <5.0 | <5.0 | -- | -- | | | <0.50 | -- | e |
| 11/18/2005 | <1,000 | <200 | 390 | <5.0 | <5.0 | 23 | <5.0 | <5.0 | -- | -- | | | 4.2 | -- | f |
| 02/01/2006 | <3,000 | <200 | 600 | <5.0 | <5.0 | 21 | <5.0 | <5.0 | -- | -- | | | <0.50 | -- | e |
| 5/30/2006 | <3,000 | <200 | 480 | <5.0 | <5.0 | 25 | <5.0 | <5.0 | -- | -- | -- | -- | <5.0 | -- | |
| 8/11/2006 | <300 | <20 | 630 | <0.50 | <0.50 | 37 | 1.2 | <0.50 | -- | -- | -- | -- | <0.50 | -- | |
| 11/2/2006 | <1,500 | <100 | 660 | <2.5 | <2.5 | 43 | <2.5 | <2.5 | -- | -- | -- | -- | <2.5 | -- | |
| 2/6/2007 | <300 | <20 | 60 | <0.50 | <0.50 | 4.8 | <0.50 | <0.50 | -- | -- | -- | -- | 0.72 | -- | |
| 5/8/2007 | <300 | <20 | 490 | <0.50 | <0.50 | 35 | 1.9 | <0.50 | -- | -- | -- | -- | 9.0 | -- | h (MTBE) |
| **8/14/2007** | **<300** | **<20** | **510** | **<0.50** | **<0.50** | **39** | **1.5** | **<0.50** | -- | -- | -- | -- | **12** | -- | |
| **RW-1** | | | | | | | | | | | | | | | |
| 11/07/2003 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | | | 3.1 | -- | |
| 02/03/2004 | <100 | <20 | <0.50 | <1.0 | <1.0 | <1.0 | <0.50 | <0.50 | -- | -- | | | 0.76 | -- | |
| 05/04/2004 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 1.8 | -- | |
| 08/12/2004 | 330/<100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 2.9 | -- | d |
| 11/10/2004 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 5.2 | -- | |
| 02/03/2005 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 1.7 | -- | e |
| 05/09/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 08/11/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 11/18/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 02/01/2006 | <300 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | 1.7 | -- | e |
| 5/30/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 8/11/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 11/2/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 2/6/2007 | <300 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | -- | -- | 15 | -- | |
| **WGR-3** | | | | | | | | | | | | | | | |

**Table 2. Summary of Fuel Additives Analytical Data**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Well and Sample Date | Concentrations in (µg/L) | | | | | | | | | | | | | | Footnotes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ethanol | TBA | MtBE | DIPE | EtBE | TAME | 1,2-DCA | EDB | trans-1,2 | cis-1,2 | VOC | Oxygen | PCE | TCE | |
| **WGR-3 Cont.** | | | | | | | | | | | | | | | |
| 05/04/2004 | <100 | <20 | 11 | <0.50 | <0.50 | 2.4 | <0.50 | <0.50 | -- | -- | | | <0.50 | -- | |
| 08/12/2004 | <100 | <20 | 35 | <0.50 | <0.50 | 7.5 | <0.50 | <0.50 | -- | -- | | | <0.50 | -- | |
| 11/10/2004 | <100 | <20 | 5.6 | <0.50 | <0.50 | 1.3 | <0.50 | <0.50 | -- | -- | | | <0.50 | -- | |
| 02/03/2005 | <100 | <20 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | <0.50 | -- | e |
| 05/09/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 08/11/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 11/18/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | | | -- | -- | |
| 02/01/2006 | <300 | <20 | 2.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | -- | | | <0.50 | -- | e |
| 5/30/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 8/11/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 11/2/2006 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | g |
| 2/6/2007 | <300 | <20 | 4.4 | <0.50 | <0.50 | 0.58 | <0.50 | <0.50 | -- | -- | -- | -- | <0.50 | -- | |

SYMBOLS & ABBREVIATIONS:
-- = Not analyzed/applicable/measured/available
< = Not detected at or above the laboratory reporting limit
1,2-DCA = 1,2-Dichloroethane
cis-1,2-DCE = cis-1,2-Dichloroethene
DIPE = Di-isopropyl ether
EDB = 1,2-Dibromoethane
ETBE = Ethyl tert-butyl ether
MTBE = Methyl tert-butyl ether
PCE = Tetrachloroethene
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
TCE = Trichloroethene
trans-1,2-DCE = trans 1,2-Dichloroethene
VOC = Volatile organic compounds
µg/L = Micrograms per Liter
BTEX = Benzene, toluene, ethylbenzene and xylenes

FOOTNOTES:
a = VOC 1,1 DCE detected at a concentration of 1.9 ug/L.
b = VOC 1,2 DCA detected at a concentration of 3.2 ug/L.
c = VOC Chlorobenzene detected at a concentration of 2.0 ug/L.
d = Ethanol was re-analyzed two days out of holding time and was not detected above a laboratory reporting limit of 100 ug/L.
e = Calibration verification for ethanol was within method limits but outside contract limits.
f = Sample for PCE analyzed after holding time expired.
g = Well sampled annually.
h = Initial analysis within holding time but required dilution.

NOTES:
PCE was analyzed using EPA Method 8260B. Samples were analyzed by EPA method 8015B for GRO and EPA method 8260B for BTEX, fuel oxygenates, ethanol, and PCE.

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

**Table 3. Historical Ground-Water Flow Direction and Gradient**

**Station #276, 10600 MacArthur Blvd., Oakland, CA**

| Date Sampled | Approximate Flow Direction | Approximate Hydraulic Gradient |
|---|---|---|
| 12/17/2000 | South-Southeast | 0.003 |
| 12/28/2001 | Southeast | 0.002 |
| 11/27/2002 | South-Southeast | 0.003 |
| 7/22/2003 | South | 0.007 |
| 11/7/2003 | Southwest | 0.002 |
| 2/3/2004 | South-Southwest | 0.002 |
| 5/4/2004 | South-Southwest | 0.003 |
| 8/12/2004 | South | 0.004 |
| 11/10/2004 | Southwest | 0.004 |
| 2/3/2005 | Southwest | 0.003 |
| 5/9/2005 | South-Southwest | 0.004 |
| 8/11/2005 | South-Southwest | 0.007 |
| 11/18/2005 | Southwest | 0.005 |
| 2/1/2006 | Southwest | 0.002 |
| 5/30/2006 | South-Southwest | 0.007 |
| 8/10/2006 | South-Southwest | 0.004 |
| 11/2/2006 | South-Southwest | 0.004 |
| 2/6/2007 | South-Southwest | 0.005 |
| 5/8/2007 | South-Southwest | 0.005 |
| **8/14/2007** | **South-Southwest** | **0.004** |

Note: The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information.

**APPENDIX A**

STRATUS GROUND-WATER SAMPLING DATA PACKAGE
(INCLUDES FIELD DATA SHEETS AND LABORATORY ANALYTICAL REPORT WITH CHAIN-OF-CUSTODY DOCUMENTATION)

STRATUS
ENVIRONMENTAL, INC.

3330 Cameron Park Drive, Ste 550
Cameron Park, California 95682
**(530) 676-6004** ~ Fax: (530) 676-6005

September 6, 2007

Mr. Rob Miller
Broadbent & Associates, Inc.
2000 Kirman Avenue
Reno, NV 89502

Re: Groundwater Sampling Data Package, BP Service Station No. 276, located at 10600 MacArthur Boulevard, Oakland, California

**General Information**

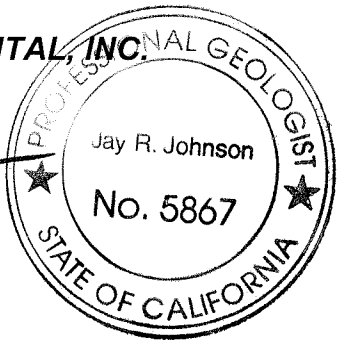
*Data Submittal Prepared / Reviewed by:* Sandy Hayes / Jay Johnson
*Phone Number:* (530) 676-6000
*On-Site Supplier Representative:* Jerry Gonzales

*Sampling Date:* August 15, 2007
*Arrival:* 12:00 *Departure:* 14:50
*Weather Conditions:* Clear
*Unusual Field Conditions:* None
*Scope of Work Performed:* Quarterly monitoring and sampling
*Variations from Work Scope:* None noted

This submittal presents the tabulation of data collected in association with routine groundwater monitoring. The attachments include field data sheets, non-hazardous waste data form, chain of custody documentation, and analytical results. The information is being provided to BP-ARCO's Scoping Supplier for use in preparing a report for regulatory submittal. This submittal is limited to presentation of collected data and does not include data interpretation or conclusions or recommendations. Any questions concerning this submittal should be addressed to the Preparer/Reviewer identified above.

Sincerely,

**STRATUS ENVIRONMENTAL, INC.**




Jay R. Johnson, P.G.
Project Manager

**Attachments:**

- Field Data Sheets
- Non-Hazardous Waste Data Form
- Chain of Custody Documentation
- Certified Analytical Results

cc: Mr. Paul Supple, BP/ARCO

# BP ALAMEDA PORTFOLIO

## HYDROLOGIC DATA SHEET

AF: 12:00 14: 50

**Gauge Date:** 8-14-07 **Project Name:** *Oakland - 10600 MacArthur Blvd.*

**Field Technician:** Jerry **Project Number:** 276

TOC = Top of Well Casing Elevation
DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC
DIA = Well Casing Diameter
ELEV = Groundwater Elevation
DUP = Duplicate

| WELL OR LOCATION | TIME | MEASUREMENT | | | | | | PURGE & SAMPLE | SHEEN CONFIRMATION (w/bailer) | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | TOC | DTP | DTW | DTB | DIA | ELEV | | | |
| MW-1 | 12:37 | | | 29.70 | 38.65 | | | | | |
| MW-2 | 12:48 | | | 17.49 | 25.11 | | | | | |
| MW-3 | 12:28 | | | 30.41 | 38.38 | | | | | |
| MW-4 | 12:33 | | | 29.88 | 47.60 | | | | | |
| MW-5 | 12:47 | | | 39.62 | 46.68 | | | | | |
| MW-6 | 12:19 | | | 35.10 | 48.20 | | | | | |
| MW-7 | 12:15 | | | 22.72 | 36.63 | | | | | |
| MW-8 | 12:51 | | | 27.92 | 47.18 | | | | | |
| RW-1 | 12:25 | | | 30.23 | 48.71 | | | | | |
| WBR-3 | 12:08 | | | 22.38 | 26.92 | | | | | |

# *BP ALAMEDA PORTFOLIO*

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 276 | PURGED BY: S | WELL I.D.: MW-2

CLIENT NAME: | SAMPLED BY: S | SAMPLE I.D.: MW-2

LOCATION: Oakland - 10600 MacArthur Blvd. | QA SAMPLES:

DATE PURGED 8-14-07 | START (2400hr) 14:21 | END (2400hr) 14:26

DATE SAMPLED 8-14-07 | SAMPLE TIME (2400hr) 14:25

SAMPLE TYPE: Groundwater x | Surface Water | Treatment Effluent | Other

| CASING DIAMETER: | 2" | 3" | 4" | 5" | 6" | 8" | Other |
|---|---|---|---|---|---|---|---|
| Casing Volume: (gallons per foot) | (0.17) | (0.38) | X (0.67) | (1.02) | (1.50) | (2.60) | ( ) |

DEPTH TO BOTTOM (feet) = 25.11 | CASING VOLUME (gal) = 5.1

DEPTH TO WATER (feet) = 13.50 | CALCULATED PURGE (gal) = 15.3

WATER COLUMN HEIGHT (feet) = 7.7 | ACTUAL PURGE (gal) = NP 0

### FIELD MEASUREMENTS

| DATE | TIME (2400hr) | VOLUME (gal) | TEMP. (degrees F) | CONDUCTIVITY (umhos/cm) | pH (units) | COLOR (visual) | TURBIDITY (NTU) |
|---|---|---|---|---|---|---|---|
| 8-14-07 | 1125 | 0 | 71.5 | 502 | 6.75 | clear | |
| | | | | | | | |
| | | | | | | | |
| | | | NA | ND | | | |
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### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 1290 | SAMPLE TURBIDITY: clear

80% RECHARGE: X YES ___ NO | ANALYSES: 8WO

ODOR: No | SAMPLE VESSEL / PRESERVATIVE: 6 Voa-HCl

### PURGING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
___ Dedicated

Other:

Pump Depth:

### SAMPLING EQUIPMENT

___ Bladder Pump
___ Centrifugal Pump
___ Submersible Pump
___ Peristaltic Pump
___ Bailer (Teflon)
X Bailer ( ___ PVC or X disposable)
___ Bailer (Stainless Steel)
___ Dedicated

Other:

WELL INTEGRITY: Good | LOCK#: NA

REMARKS: DO 0.71

SIGNATURE:

# *BP ALAMEDA PORTFOLIO*

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 276 PURGED BY: [illegible] WELL I.D.: MW-5

CLIENT NAME: _____ SAMPLED BY: [illegible] SAMPLE I.D.: MW-5

LOCATION: Oakland - 10600 MacArthur Blvd. QA SAMPLES: _____

DATE PURGED 8-14-07 START (2400hr) 14:34 END (2400hr) 14:46

DATE SAMPLED 8-14-07 SAMPLE TIME (2400hr) 14:45

SAMPLE TYPE: Groundwater x Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" _____ 3" _____ 4" X 5" _____ 6" _____ 8" _____ Other _____

Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 46.68 CASING VOLUME (gal) = 11.4

DEPTH TO WATER (feet) = 29.62 CALCULATED PURGE (gal) = 34.2

WATER COLUMN HEIGHT (feet) = 17.0 ACTUAL PURGE (gal) = NP-0

### FIELD MEASUREMENTS

| DATE | TIME (2400hr) | VOLUME (gal) | TEMP. (degrees F) | CONDUCTIVITY (umhos/cm) | pH (units) | COLOR (visual) | TURBIDITY (NTU) |
|---|---|---|---|---|---|---|---|
| 8-14-07 | 1416 | 0 | 20.9 | 631 | 6.99 | clear | |
| | | | | | | | |
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### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 29.62 SAMPLE TURBIDITY: Clear

80% RECHARGE: X YES ___ NO ANALYSES: 5-W-O

ODOR: No SAMPLE VESSEL / PRESERVATIVE: 6 VOA-HCl

### PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

___ Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated _____

Other: _____

Pump Depth: _____

### SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump X Bailer ( ___ PVC or X disposable)

___ Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated _____

Other: _____

WELL INTEGRITY: Good LOCK#: Matrix

REMARKS: DO 1.32

SIGNATURE: [signature] Page ___ of ___

# *BP ALAMEDA PORTFOLIO*

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 276 PURGED BY: J. WELL I.D.: MW 6

CLIENT NAME: SAMPLED BY: J SAMPLE I.D.: MW 6

LOCATION: Oakland - 10600 MacArthur Blvd. QA SAMPLES:

DATE PURGED 8-14-07 START (2400hr) 13:20 END (2400hr) 13:29

DATE SAMPLED 8-14-07 SAMPLE TIME (2400hr) 13:26

SAMPLE TYPE: Groundwater x Surface Water ___ Treatment Effluent ___ Other ___

CASING DIAMETER: 2" x 3" ___ 4" ___ 5" ___ 6" ___ 8" ___ Other ___

Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 48.70 CASING VOLUME (gal) = 2.2

DEPTH TO WATER (feet) = 35.10 CALCULATED PURGE (gal) = 6.6

WATER COLUMN HEIGHT (feet) = 13.1 ACTUAL PURGE (gal) = 5.0

### FIELD MEASUREMENTS

| DATE | TIME (2400hr) | VOLUME (gal) | TEMP. (degrees F) | CONDUCTIVITY (umhos/cm) | pH (units) | COLOR (visual) | TURBIDITY (NTU) |
|---|---|---|---|---|---|---|---|
| 8-14-07 | 13:22 | 2.3 | 21.8 | 1417 | 6.78 | clear | |
| " | 13:23 | 4.6 | 20.8 | 1431 | 6.99 | | |
| " | 13:24 | 5.0 | 20.5 | 1453 | 7.10 | | |
| | | | | | | | |
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### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 36.08 SAMPLE TURBIDITY: clear

80% RECHARGE: X YES ___ NO ANALYSES: 5 WD

ODOR: yes SAMPLE VESSEL / PRESERVATIVE: 6 VOA-HCl

### PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer (PVC)

X Submersible Pump ___ Bailer (Stainless Steel)

___ Peristalic Pump ___ Dedicated ___

Other: ___

Pump Depth: ~

### SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)

___ Centrifugal Pump ___ Bailer ( ___ PVC or ___ disposable)

___ Submersible Pump ___ Bailer (Stainless Steel)

___ Peristalic Pump ___ Dedicated ___

Other: Disp Tubing

WELL INTEGRITY: Good LOCK#: Many Tks

REMARKS: DO: 1.60

SIGNATURE: Page ___ of ___

# *BP ALAMEDA PORTFOLIO*

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 276 PURGED BY: JC WELL I.D.: MW-7

CLIENT NAME: SAMPLED BY: JC SAMPLE I.D.: MW-7

LOCATION: Oakland - 10600 MacArthur Blvd. QA SAMPLES:

DATE PURGED 8-14-07 START (2400hr) 13:04 END (2400hr) 13:06

DATE SAMPLED 8-14-07 SAMPLE TIME (2400hr) 13:05

SAMPLE TYPE: Groundwater x Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 36.63 CASING VOLUME (gal) = 23

DEPTH TO WATER (feet) = 22.72 CALCULATED PURGE (gal) = 3.0

WATER COLUMN HEIGHT (feet) = 13.8 ACTUAL PURGE (gal) = NP. 0

FIELD MEASUREMENTS

| DATE | TIME (2400hr) | VOLUME (gal) | TEMP. (degrees F) | CONDUCTIVITY (umhos/cm) | pH (units) | COLOR (visual) | TURBIDITY (NTU) |
|---|---|---|---|---|---|---|---|
| 8-14-07 | 13:06 | 0 | 22.6 | 546 | 7.50 | clear | |
| | | | | | | | |
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SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 22.72 SAMPLE TURBIDITY: clear

80% RECHARGE: X YES ____ NO ANALYSES: 5.W.O

ODOR: no SAMPLE VESSEL / PRESERVATIVE: 6 VOA - HCL

PURGING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)

____ Centrifugal Pump ____ Bailer (PVC)

____ Submersible Pump ____ Bailer (Stainless Steel)

____ Peristaltic Pump ____ Dedicated ____

Other: ____

Pump Depth: ____

SAMPLING EQUIPMENT

____ Bladder Pump ____ Bailer (Teflon)

____ Centrifugal Pump X Bailer ( ____ PVC or X disposable)

____ Submersible Pump ____ Bailer (Stainless Steel)

____ Peristaltic Pump ____ Dedicated ____

Other: ____

WELL INTEGRITY: good LOCK#: Master

REMARKS: DO 0.94

SIGNATURE: [signature] Page ____ of ____

# *BP ALAMEDA PORTFOLIO*

## WATER SAMPLE FIELD DATA SHEET

PROJECT #: 276 PURGED BY: JG WELL I.D.: MW-8

CLIENT NAME: SAMPLED BY: JG SAMPLE I.D.: MW-8

LOCATION: Oakland - 10600 MacArthur Blvd. QA SAMPLES:

DATE PURGED 8-14-09 START (2400hr) 13:45 END (2400hr) 13:56

DATE SAMPLED 8-14-09 SAMPLE TIME (2400hr) 13:55

SAMPLE TYPE: Groundwater x Surface Water ___ Treatment Effluent ___ Other ___

CASING DIAMETER: 2" ___ 3" ___ 4" X 5" ___ 6" ___ 8" ___ Other ___

Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

DEPTH TO BOTTOM (feet) = 42.78 CASING VOLUME (gal) = 13.3

DEPTH TO WATER (feet) = 27.92 CALCULATED PURGE (gal) = 39.9

WATER COLUMN HEIGHT (feet) = 14.8 ACTUAL PURGE (gal) = 40.0

### FIELD MEASUREMENTS

| DATE | TIME (2400hr) | VOLUME (gal) | TEMP. (degrees F) | CONDUCTIVITY (umhos/cm) | pH (units) | COLOR (visual) | TURBIDITY (NTU) |
|---|---|---|---|---|---|---|---|
| 8-14-09 | 13:45 | 13.3 | 21.9 | 354 | 7.27 | Clear | |
| | 13:50 | 26.7 | 21.6 | 717 | 6.98 | | |
| | 13:52 | 40.0 | 21.6 | 715 | 6.98 | | |

### SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 28.49 SAMPLE TURBIDITY: Clear

80% RECHARGE: X YES ___ NO ANALYSES: 5 VOA

ODOR: ___ SAMPLE VESSEL / PRESERVATIVE: 6 Voa HCl

| PURGING EQUIPMENT | | SAMPLING EQUIPMENT | |
|---|---|---|---|
| ___ Bladder Pump | ___ Bailer (Teflon) | ___ Bladder Pump | ___ Bailer (Teflon) |
| ___ Centrifugal Pump | ___ Bailer (PVC) | ___ Centrifugal Pump | ___ Bailer ( ___ PVC or ___ disposable) |
| ___ Submersible Pump | ___ Bailer (Stainless Steel) | ___ Submersible Pump | ___ Bailer (Stainless Steel) |
| ___ Peristalic Pump | ___ Dedicated ___ | ___ Peristalic Pump | ___ Dedicated ___ |
| Other: ___ | | Other: Disp-Tubing | |
| Pump Depth: 40 | | | |

WELL INTEGRITY: ___ LOCK#: NA

REMARKS: DO. 280

SIGNATURE: [signature] Page ___ of ___

## Wellhead Observation Form

Account: _____

Sampled by: Jerry Date: 8-14-07

| Well ID | Box in good condition | Lock Missing (Replaced with new) | Water in Box | Bolts Missing | Bolts Stripped | Bolt-Holes Stripped | Cracked or Broken Lid | Cracked Box and/or Bolt - Holes | Misc. | Add'l – Notes and Other Stuff |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | Y | N | N | Y | N | Y | N | N | | |
| MW-2 | Y | N | N | Y | Y | Y | N | N | | |
| MW-3 | Y | N | N | N | N | N | N | N | | |
| MW-4 | Y | N | N | N | N | N | N | N | | |
| MW-5 | Y | N | N | Y | N | N | N | N | | |
| MW-6 | Y | N | N | N | N | N | N | N | | |
| MW-7 | Y | N | N | N | N | N | N | N | | |
| MW-8 | Y | N | N | N | N | N | N | N | | |
| [redacted]W-1 | Y | N | N | N | N | N | N | N | | |
| WER-3 | Y | N | N | N | N | N | N | N | | |
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NO. 665097

# NON-HAZARDOUS WASTE DATA FORM

## TO BE COMPLETED BY GENERATOR

SITE:

NAME: BP WEST COAST PRODUCTS LLC ARCO # 776

EPA I.D. NO.: NOT REQUIRED

ADDRESS: P.O. BOX 80249 RANCHO SANTA MARGARITA

PROFILE NO.:

CITY, STATE, ZIP: CA 92688

PHONE NO.: ( )

CONTAINERS: No. _____ VOLUME 12 yds WEIGHT _____

TYPE: ☐ TANK TRUCK ☐ DUMP TRUCK ☐ DRUMS ☐ CARTONS ☐ OTHER _____

WASTE DESCRIPTION: NON-HAZARDOUS WATER

GENERATING PROCESS: WELL PURGING/DECON WATER

| COMPONENTS OF WASTE | PPM | % | COMPONENTS OF WASTE | PPM | % |
|---|---|---|---|---|---|
| 1. WATER | | 99-100% | 6. | | |
| 2. TPH | | <1% | 5. | | |
| 3. | | | 7. BESI# | | |
| 4. | | | 8. | | |

PROPERTIES: pH 7-10 ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Larry Moothart BESI for BP — 7/11/1

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

## TRANSPORTER

Transporter #1

NAME: STRATUS ENVIRONMENTAL

EPA I.D. NO.:

ADDRESS: 3330 CAMERON PARK DR

SERVICE ORDER NO.:

CITY, STATE, ZIP: CAMERON PARK, CA 95682

PICK UP DATE:

PHONE NO.: 530-676-2031

TRUCK, UNIT, I.D. NO.:

Larry Moothart — 7/11/1

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

Transporter #2

NAME:

EPA I.D. NO.:

ADDRESS:

SERVICE ORDER NO.:

CITY, STATE, ZIP:

PICK UP DATE:

PHONE NO.:

TRUCK, UNIT, I.D. NO.:

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

## TSD FACILITY

NAME: SEAPORT REFINING & ENVIRONMENTAL, LLC

EPA I.D. NO.:

ADDRESS: 700 SEAPORT BLVD.

DISPOSAL METHOD: ☐ LANDFILL ☐ OTHER _____

CITY, STATE, ZIP: REDWOOD CITY, CA 94063

PHONE NO.: 650-364-1024

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

| | | | |
|---|---|---|---|
| GEN | OLD/NEW | L A | TONS |
| TRANS | | S B | |
| C/G | | RT/CD | H WDF: NONE |

DISCREPANCY

Atlantic Richfield Company
bp
A BP affiliated company

# Chain of Custody Record

**Project Name:** BP 276
**BP BU/AR Region/Enfos Segment:** BP > Americas > West > Retail > CA > Alameda>276
**State or Lead Regulatory Agency:**
**Requested Due Date (mm/dd/yy):**

| | | | |
|---|---|---|---|
| On-site Time: | 12:00 | Temp: | 56 |
| Off-site Time: | 1450 | Temp: | 80 |
| Sky Conditions: | Clear | | |
| Meteorological Events: | None | | |
| Wind Speed: | 0 | Direction: | 0 |

| | | | |
|---|---|---|---|
| Lab Name: TestAmerica | BP/AR Facility No.: 276 | Consultant/Contractor: Stratus Environmental, Inc. |
| Address: 885 Jarvis Drive | BP/AR Facility Address: 10600 MacArthur Blvd., Oakland | Address: 3330 Cameron Park Drive, Suite 550 |
| Morgan Hill, CA 95937 | Site Lat/Long: | Cameron Park, CA 95682 |
| Lab PM: Lisa Race | California Global ID #: T0600108312 | Consultant/Contractor Project No.: E276-04 |
| Tele/Fax: 408-782-8156 408-782-6308 (fax) | Enfos Project No.: G0C20-0014 | Consultant/Contractor PM: Jay Johnson |
| BP/AR PM Contact: Paul Supple | Provision or RCOP (circle one) Provision | Tele/Fax: (530) 676-6000 / (530) 676-6005 |
| Address: 2010 Crow Canyon Place, Suite 150 | Phase/WBS: 04-Monitoring | Report Type & QC Level: Level 1 with EDF |
| San Ramon, CA | Sub Phase/Task: 03-Analytical | E-mail EDD To: shayes@stratusinc.net |
| Tele/Fax: 925-275-3506 | Cost Element: 01-Contractor labor | Invoice to: Atlantic Richfield Co. |

**Lab Bottle Order No:**

| Item No. | Sample Description | Time | Date | Matrix: Soil/Solid | Matrix: Water/Liquid | Matrix: Air | Laboratory No. | No. of Containers | Preservative: Unpreserved | Preservative: $H_2SO_4$ | Preservative: $HNO_3$ | Preservative: HCl | Preservative: Methanol | Requested Analysis: GRO/BTEX/Oxy* | Requested Analysis: EDB | Requested Analysis: 1,2 DCA | Requested Analysis: Ethanol by 8260 | Requested Analysis: PCE by 8010 | Sample Point Lat/Long and Comments *Oxy = MTBE, TAME, ETBE, DIPE, TBA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-2 | 1425 | 8/14/07 | | X | | | 6 | | | | X | | X | X | X | X | X | |
| 2 | MW-5 | 1415 | " | | X | | | 6 | | | | X | | X | X | X | X | X | |
| 3 | MW-6 | 1326 | " | | X | | | 6 | | | | X | | X | X | X | X | X | |
| 4 | MW-7 | 1305 | " | | X | | | 6 | | | | X | | X | X | X | X | X | |
| 5 | MW-8 | 1355 | " | | X | | | 6 | | | | X | | X | X | X | X | X | |
| 6 | TB - 276 - 8/14/07 | 500 | " | | X | | | 3 | | | | X | | X | X | X | X | X | HOLD |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Sampler's Name: | Jerry Gonzales | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
| Sampler's Company: | Dellos ENV | | 8/16 | 1540 | | 8/16 | 1540 |
| Shipment Date: | | | | | | | |
| Shipment Method: | | | | | | | |
| Shipment Tracking No: | | | | | | | |

**Special Instructions:** Please cc results to: rmiller@broadbentinc.com

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

31 August, 2007

Jay Johnson
Stratus Environmental Inc. [Arco]
3330 Cameron Park Dr., Suite 550
Cameron Park, CA 95682

RE: ARCO #0276, Oakland, CA
Work Order: MQH0514

Enclosed are the results of analyses for samples received by the laboratory on 08/16/07 18:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Race
Senior Project Manager

CA ELAP Certificate # 1210

The results in this laboratory report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable Federal, State, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This entire report was reviewed and approved for release.

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|---|---|---|
| Stratus Environmental Inc. [Arco] | Project: ARCO #0276, Oakland, CA | MQH0514 |
| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|---|---|---|---|---|
| MW-2 | MQH0514-01 | Water | 08/14/07 14:25 | 08/16/07 18:45 |
| MW-5 | MQH0514-02 | Water | 08/14/07 14:15 | 08/16/07 18:45 |
| MW-6 | MQH0514-03 | Water | 08/14/07 13:26 | 08/16/07 18:45 |
| MW-7 | MQH0514-04 | Water | 08/14/07 13:05 | 08/16/07 18:45 |
| MW-8 | MQH0514-05 | Water | 08/14/07 13:55 | 08/16/07 18:45 |
| TB-276-81407 | MQH0514-06 | Water | 08/14/07 05:00 | 08/16/07 18:45 |

The carbon range for the TPH-GRO has been changed from C6-C10 to C4-C12. The carbon range for TPH-DRO has been changed from C10-C28 to C10-C36. EPA 8015B has been modified to better meet the requirements of California regulatory agencies.

These samples were received with no custody seals.

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|---|---|---|
| Stratus Environmental Inc. [Arco] | Project: ARCO #0276, Oakland, CA | MQH0514 |
| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

## Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **MW-2 (MQH0514-01) Water Sampled: 08/14/07 14:25 Received: 08/16/07 18:45** | | | | | | | | | |
| **Gasoline Range Organics (C4-C12)** | **190** | 50 | ug/l | 1 | 7H24029 | 08/24/07 | 08/25/07 | LUFT GCMS | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *94 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *103 %* | *75-120* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *98 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *96 %* | *60-135* | | " | " | " | " | |
| **MW-5 (MQH0514-02) Water Sampled: 08/14/07 14:15 Received: 08/16/07 18:45** | | | | | | | | | |
| **Gasoline Range Organics (C4-C12)** | **110** | 50 | ug/l | 1 | 7H24029 | 08/24/07 | 08/25/07 | LUFT GCMS | PV |
| *Surrogate: 1,2-Dichloroethane-d4* | | *108 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *104 %* | *75-120* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *97 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *82 %* | *60-135* | | " | " | " | " | |
| **MW-6 (MQH0514-03) Water Sampled: 08/14/07 13:26 Received: 08/16/07 18:45** | | | | | | | | | |
| **Gasoline Range Organics (C4-C12)** | **510** | 50 | ug/l | 1 | 7H24029 | 08/24/07 | 08/25/07 | LUFT GCMS | PV |
| *Surrogate: 1,2-Dichloroethane-d4* | | *119 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *108 %* | *75-120* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *95 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *87 %* | *60-135* | | " | " | " | " | |
| **MW-7 (MQH0514-04) Water Sampled: 08/14/07 13:05 Received: 08/16/07 18:45** | | | | | | | | | |
| **Gasoline Range Organics (C4-C12)** | **1900** | 50 | ug/l | 1 | 7H24029 | 08/24/07 | 08/25/07 | LUFT GCMS | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *100 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *100 %* | *75-120* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *100 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *100 %* | *60-135* | | " | " | " | " | |

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|---|---|---|
| Stratus Environmental Inc. [Arco] | Project: ARCO #0276, Oakland, CA | MQH0514 |
| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

## Total Purgeable Hydrocarbons by GC/MS (CA LUFT)

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **MW-8 (MQH0514-05) Water Sampled: 08/14/07 13:55 Received: 08/16/07 18:45** | | | | | | | | | |
| **Gasoline Range Organics (C4-C12)** | **250** | 50 | ug/l | 1 | 7H24029 | 08/24/07 | 08/25/07 | LUFT GCMS | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *100 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *100 %* | *75-120* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *100 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *100 %* | *60-135* | | " | " | " | " | |

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|---|---|---|
| Stratus Environmental Inc. [Arco] | Project: ARCO #0276, Oakland, CA | MQH0514 |
| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

## Volatile Organic Compounds by EPA Method 8260B

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **MW-2 (MQH0514-01) Water Sampled: 08/14/07 14:25 Received: 08/16/07 18:45** | | | | | | | | | |
| **tert-Amyl methyl ether** | **3.4** | 0.50 | ug/l | 1 | 7H24004 | 08/24/07 | 08/24/07 | EPA 8260B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Ethanol | ND | 300 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| **Methyl tert-butyl ether** | **19** | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *92 %* | *75-120* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *100 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *100 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *96 %* | *60-135* | | " | " | " | " | |
| **MW-5 (MQH0514-02) Water Sampled: 08/14/07 14:15 Received: 08/16/07 18:45** | | | | | | | | | |
| **tert-Amyl methyl ether** | **14** | 0.50 | ug/l | 1 | 7H24004 | 08/24/07 | 08/24/07 | EPA 8260B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | |
| **Di-isopropyl ether** | **0.73** | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | " | " | " | " | " | |
| **1,2-Dichloroethane** | **5.4** | 0.50 | " | " | " | " | " | " | |
| Ethanol | ND | 300 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| **Methyl tert-butyl ether** | **150** | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *96 %* | *75-120* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *102 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *96 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *91 %* | *60-135* | | " | " | " | " | |

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|---|---|---|
| Stratus Environmental Inc. [Arco] | Project: ARCO #0276, Oakland, CA | MQH0514 |
| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

## Volatile Organic Compounds by EPA Method 8260B

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **MW-6 (MQH0514-03) Water Sampled: 08/14/07 13:26 Received: 08/16/07 18:45** | | | | | | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | 1 | 7H24004 | 08/24/07 | 08/24/07 | EPA 8260B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Ethanol | ND | 300 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| **Methyl tert-butyl ether** | **0.91** | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *98 %* | *75-120* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *105 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *97 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *90 %* | *60-135* | | " | " | " | " | |
| **MW-7 (MQH0514-04) Water Sampled: 08/14/07 13:05 Received: 08/16/07 18:45** | | | | | | | | | |
| **tert-Amyl methyl ether** | **1.8** | 0.50 | ug/l | 1 | 7H24029 | 08/24/07 | 08/25/07 | EPA 8260B | |
| **Benzene** | **1.2** | 0.50 | " | " | " | " | " | " | |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dichloroethane | ND | 0.50 | " | " | " | " | " | " | |
| Ethanol | ND | 300 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| **Ethylbenzene** | **2.7** | 0.50 | " | " | " | " | " | " | |
| **Methyl tert-butyl ether** | **9.8** | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| **Xylenes (total)** | **1.3** | 0.50 | " | " | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *95 %* | *75-120* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *109 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *109 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *114 %* | *60-135* | | " | " | " | " | |

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|---|---|---|
| Stratus Environmental Inc. [Arco] | Project: ARCO #0276, Oakland, CA | MQH0514 |
| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

## Volatile Organic Compounds by EPA Method 8260B

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **MW-8 (MQH0514-05) Water Sampled: 08/14/07 13:55 Received: 08/16/07 18:45** | | | | | | | | | |
| **tert-Amyl methyl ether** | **39** | 0.50 | ug/l | 1 | 7H24029 | 08/24/07 | 08/25/07 | EPA 8260B | |
| Benzene | ND | 0.50 | " | " | " | " | " | " | |
| tert-Butyl alcohol | ND | 20 | " | " | " | " | " | " | |
| Di-isopropyl ether | ND | 0.50 | " | " | " | " | " | " | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | " | " | " | " | " | |
| **1,2-Dichloroethane** | **1.5** | 0.50 | " | " | " | " | " | " | |
| Ethanol | ND | 300 | " | " | " | " | " | " | |
| Ethyl tert-butyl ether | ND | 0.50 | " | " | " | " | " | " | |
| Ethylbenzene | ND | 0.50 | " | " | " | " | " | " | |
| Toluene | ND | 0.50 | " | " | " | " | " | " | |
| Xylenes (total) | ND | 0.50 | " | " | " | " | " | " | |
| *Surrogate: Dibromofluoromethane* | | *99 %* | *75-120* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *84 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *97 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *89 %* | *60-135* | | " | " | " | " | |
| **MW-8 (MQH0514-05RE1) Water Sampled: 08/14/07 13:55 Received: 08/16/07 18:45** | | | | | | | | | |
| **Methyl tert-butyl ether** | **510** | 5.0 | ug/l | 10 | 7H28013 | 08/28/07 | 08/28/07 | EPA 8260B | |
| *Surrogate: Dibromofluoromethane* | | *90 %* | *75-120* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *100 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *94 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *88 %* | *60-135* | | " | " | " | " | |

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| Stratus Environmental Inc. [Arco] | Project: ARCO #0276, Oakland, CA | MQH0514 |
| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

## EPA 8010 list Volatile Organic Compounds by EPA 8260B

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **MW-2 (MQH0514-01) Water Sampled: 08/14/07 14:25 Received: 08/16/07 18:45** | | | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | 1 | 7H24004 | 08/24/07 | 08/24/07 | EPA 8260B | |
| *Surrogate: Dibromofluoromethane* | | *92 %* | *75-120* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *100 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *100 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *96 %* | *60-135* | | " | " | " | " | |
| **MW-5 (MQH0514-02) Water Sampled: 08/14/07 14:15 Received: 08/16/07 18:45** | | | | | | | | | |
| **Tetrachloroethene** | **5.6** | 0.50 | ug/l | 1 | 7H24004 | 08/24/07 | 08/24/07 | EPA 8260B | |
| *Surrogate: Dibromofluoromethane* | | *96 %* | *75-120* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *102 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *96 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *91 %* | *60-135* | | " | " | " | " | |
| **MW-6 (MQH0514-03) Water Sampled: 08/14/07 13:26 Received: 08/16/07 18:45** | | | | | | | | | |
| **Tetrachloroethene** | **640** | 10 | ug/l | 20 | 7H28002 | 08/28/07 | 08/28/07 | EPA 8260B | |
| *Surrogate: Dibromofluoromethane* | | *100 %* | *75-120* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *105 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *94 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *87 %* | *60-135* | | " | " | " | " | |
| **MW-7 (MQH0514-04) Water Sampled: 08/14/07 13:05 Received: 08/16/07 18:45** | | | | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | 1 | 7H28004 | 08/28/07 | 08/28/07 | EPA 8260B | |
| *Surrogate: Dibromofluoromethane* | | *104 %* | *75-120* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *67 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *114 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *96 %* | *60-135* | | " | " | " | " | |

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| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

## EPA 8010 list Volatile Organic Compounds by EPA 8260B

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **MW-8 (MQH0514-05) Water Sampled: 08/14/07 13:55 Received: 08/16/07 18:45** | | | | | | | | | |
| **Tetrachloroethene** | **12** | 0.50 | ug/l | 1 | 7H24029 | 08/24/07 | 08/25/07 | EPA 8260B | |
| *Surrogate: Dibromofluoromethane* | | *99 %* | *75-120* | | " | " | " | " | |
| *Surrogate: 1,2-Dichloroethane-d4* | | *84 %* | *60-125* | | " | " | " | " | |
| *Surrogate: Toluene-d8* | | *97 %* | *80-120* | | " | " | " | " | |
| *Surrogate: 4-Bromofluorobenzene* | | *89 %* | *60-135* | | " | " | " | " | |

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| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

## Total Purgeable Hydrocarbons by GC/MS (CA LUFT) - Quality Control
## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 7H24029 - EPA 5030B P/T / LUFT GCMS** | | | | | | | | | | |
| **Blank (7H24029-BLK1)** | | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| Gasoline Range Organics (C4-C12) | ND | 50 | ug/l | | | | | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.50* | | " | *2.50* | | *100* | *60-125* | | | |
| *Surrogate: Dibromofluoromethane* | *2.50* | | " | *2.50* | | *100* | *75-120* | | | |
| *Surrogate: Toluene-d8* | *2.50* | | " | *2.50* | | *100* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.50* | | " | *2.50* | | *100* | *60-135* | | | |
| **Laboratory Control Sample (7H24029-BS2)** | | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| Gasoline Range Organics (C4-C12) | 522 | 50 | ug/l | 500 | | 104 | 65-120 | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.50* | | " | *2.50* | | *100* | *60-125* | | | |
| *Surrogate: Dibromofluoromethane* | *2.50* | | " | *2.50* | | *100* | *75-120* | | | |
| *Surrogate: Toluene-d8* | *2.50* | | " | *2.50* | | *100* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.50* | | " | *2.50* | | *100* | *60-135* | | | |
| **Laboratory Control Sample Dup (7H24029-BSD2)** | | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| Gasoline Range Organics (C4-C12) | 486 | 50 | ug/l | 500 | | 97 | 65-120 | 7 | 20 | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.50* | | " | *2.50* | | *100* | *60-125* | | | |
| *Surrogate: Dibromofluoromethane* | *2.50* | | " | *2.50* | | *100* | *75-120* | | | |
| *Surrogate: Toluene-d8* | *2.50* | | " | *2.50* | | *100* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.50* | | " | *2.50* | | *100* | *60-135* | | | |

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| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

# Volatile Organic Compounds by EPA Method 8260B - Quality Control

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 7H24004 - EPA 5030B P/T / EPA 8260B** | | | | | | | | | | |
| **Blank (7H24004-BLK1)** | | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| tert-Butyl alcohol | ND | 20 | " | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | " | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | " | | | | | | | |
| Ethanol | ND | 300 | " | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *2.34* | | " | *2.50* | | *94* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.52* | | " | *2.50* | | *101* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.46* | | " | *2.50* | | *98* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.25* | | " | *2.50* | | *90* | *60-135* | | | |
| **Laboratory Control Sample (7H24004-BS1)** | | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| tert-Amyl methyl ether | 9.99 | 0.50 | ug/l | 10.0 | | 100 | 65-135 | | | |
| Benzene | 10.4 | 0.50 | " | 10.0 | | 104 | 75-120 | | | |
| tert-Butyl alcohol | 195 | 20 | " | 200 | | 98 | 60-135 | | | |
| Di-isopropyl ether | 10.4 | 0.50 | " | 10.0 | | 104 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 10.5 | 0.50 | " | 10.0 | | 105 | 70-135 | | | |
| 1,2-Dichloroethane | 9.93 | 0.50 | " | 10.0 | | 99 | 70-125 | | | |
| Ethanol | 221 | 300 | " | 200 | | 110 | 15-150 | | | |
| Ethyl tert-butyl ether | 10.2 | 0.50 | " | 10.0 | | 102 | 65-130 | | | |
| Ethylbenzene | 11.2 | 0.50 | " | 10.0 | | 112 | 75-120 | | | |
| Methyl tert-butyl ether | 9.65 | 0.50 | " | 10.0 | | 96 | 50-140 | | | |
| Toluene | 10.6 | 0.50 | " | 10.0 | | 106 | 75-120 | | | |
| Xylenes (total) | 33.4 | 0.50 | " | 30.0 | | 111 | 75-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.41* | | " | *2.50* | | *96* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.38* | | " | *2.50* | | *95* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.51* | | " | *2.50* | | *100* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.42* | | " | *2.50* | | *97* | *60-135* | | | |

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| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

# Volatile Organic Compounds by EPA Method 8260B - Quality Control

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 7H24004 - EPA 5030B P/T / EPA 8260B** | | | | | | | | | | |
| **Matrix Spike (7H24004-MS1)** | **Source: MQH0514-01** | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| tert-Amyl methyl ether | 15.2 | 0.50 | ug/l | 10.0 | 3.41 | 118 | 65-135 | | | |
| Benzene | 10.3 | 0.50 | " | 10.0 | 0.160 | 102 | 75-120 | | | |
| tert-Butyl alcohol | 195 | 20 | " | 200 | 5.33 | 95 | 60-135 | | | |
| Di-isopropyl ether | 10.5 | 0.50 | " | 10.0 | ND | 105 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 11.1 | 0.50 | " | 10.0 | ND | 111 | 70-135 | | | |
| 1,2-Dichloroethane | 10.6 | 0.50 | " | 10.0 | ND | 106 | 70-125 | | | |
| Ethanol | 188 | 300 | " | 200 | ND | 94 | 15-150 | | | |
| Ethyl tert-butyl ether | 10.6 | 0.50 | " | 10.0 | ND | 106 | 65-130 | | | |
| Ethylbenzene | 10.8 | 0.50 | " | 10.0 | ND | 108 | 75-120 | | | |
| Methyl tert-butyl ether | 30.4 | 0.50 | " | 10.0 | 18.8 | 116 | 50-140 | | | |
| Toluene | 10.9 | 0.50 | " | 10.0 | 0.420 | 105 | 75-120 | | | |
| Xylenes (total) | 32.1 | 0.50 | " | 30.0 | ND | 107 | 75-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.46* | | " | *2.50* | | *98* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.54* | | " | *2.50* | | *102* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.54* | | " | *2.50* | | *102* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.50* | | " | *2.50* | | *100* | *60-135* | | | |
| **Matrix Spike Dup (7H24004-MSD1)** | **Source: MQH0514-01** | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| tert-Amyl methyl ether | 15.0 | 0.50 | ug/l | 10.0 | 3.41 | 115 | 65-135 | 2 | 25 | |
| Benzene | 10.2 | 0.50 | " | 10.0 | 0.160 | 100 | 75-120 | 1 | 20 | |
| tert-Butyl alcohol | 195 | 20 | " | 200 | 5.33 | 95 | 60-135 | 0.2 | 25 | |
| Di-isopropyl ether | 10.4 | 0.50 | " | 10.0 | ND | 104 | 70-130 | 1 | 25 | |
| 1,2-Dibromoethane (EDB) | 11.1 | 0.50 | " | 10.0 | ND | 111 | 70-135 | 0.3 | 30 | |
| 1,2-Dichloroethane | 10.7 | 0.50 | " | 10.0 | ND | 107 | 70-125 | 1 | 25 | |
| Ethanol | 190 | 300 | " | 200 | ND | 95 | 15-150 | 0.9 | 25 | |
| Ethyl tert-butyl ether | 10.7 | 0.50 | " | 10.0 | ND | 107 | 65-130 | 0.8 | 25 | |
| Ethylbenzene | 10.5 | 0.50 | " | 10.0 | ND | 105 | 75-120 | 3 | 20 | |
| Methyl tert-butyl ether | 30.2 | 0.50 | " | 10.0 | 18.8 | 115 | 50-140 | 0.4 | 25 | |
| Toluene | 10.8 | 0.50 | " | 10.0 | 0.420 | 103 | 75-120 | 2 | 25 | |
| Xylenes (total) | 31.2 | 0.50 | " | 30.0 | ND | 104 | 75-130 | 3 | 20 | |
| *Surrogate: Dibromofluoromethane* | *2.55* | | " | *2.50* | | *102* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.63* | | " | *2.50* | | *105* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.55* | | " | *2.50* | | *102* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.49* | | " | *2.50* | | *100* | *60-135* | | | |

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| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

# Volatile Organic Compounds by EPA Method 8260B - Quality Control

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 7H24029 - EPA 5030B P/T / EPA 8260B** | | | | | | | | | | |
| **Blank (7H24029-BLK1)** | | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| tert-Butyl alcohol | ND | 5.0 | " | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | " | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | " | | | | | | | |
| Ethanol | ND | 300 | " | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *2.54* | | " | *2.50* | | *102* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.76* | | " | *2.50* | | *110* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.46* | | " | *2.50* | | *98* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.20* | | " | *2.50* | | *88* | *60-135* | | | |
| **Laboratory Control Sample (7H24029-BS1)** | | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| tert-Amyl methyl ether | 9.26 | 0.50 | ug/l | 10.0 | | 93 | 65-135 | | | |
| Benzene | 8.65 | 0.50 | " | 10.0 | | 86 | 75-120 | | | |
| tert-Butyl alcohol | 180 | 5.0 | " | 200 | | 90 | 60-135 | | | |
| Di-isopropyl ether | 8.98 | 0.50 | " | 10.0 | | 90 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 9.41 | 0.50 | " | 10.0 | | 94 | 70-135 | | | |
| 1,2-Dichloroethane | 10.7 | 0.50 | " | 10.0 | | 107 | 70-125 | | | |
| Ethanol | 157 | 300 | " | 200 | | 78 | 15-150 | | | |
| Ethyl tert-butyl ether | 9.18 | 0.50 | " | 10.0 | | 92 | 65-130 | | | |
| Ethylbenzene | 9.46 | 0.50 | " | 10.0 | | 95 | 75-120 | | | |
| Methyl tert-butyl ether | 9.39 | 0.50 | " | 10.0 | | 94 | 50-140 | | | |
| Toluene | 8.93 | 0.50 | " | 10.0 | | 89 | 75-120 | | | |
| Xylenes (total) | 28.5 | 0.50 | " | 30.0 | | 95 | 75-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.70* | | " | *2.50* | | *108* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.95* | | " | *2.50* | | *118* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.43* | | " | *2.50* | | *97* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.45* | | " | *2.50* | | *98* | *60-135* | | | |

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| Stratus Environmental Inc. [Arco] | Project: ARCO #0276, Oakland, CA | MQH0514 |
| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

# Volatile Organic Compounds by EPA Method 8260B - Quality Control

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 7H24029 - EPA 5030B P/T / EPA 8260B** | | | | | | | | | | |
| **Matrix Spike (7H24029-MS1)** | **Source: MQH0422-01** | | | Prepared: 08/24/07 | | Analyzed: 08/25/07 | | | | |
| tert-Amyl methyl ether | 11.4 | 0.50 | ug/l | 10.0 | ND | 114 | 65-135 | | | |
| Benzene | 32.2 | 0.50 | " | 10.0 | 20.5 | 117 | 75-120 | | | |
| tert-Butyl alcohol | 239 | 5.0 | " | 200 | 27.9 | 105 | 60-135 | | | |
| Di-isopropyl ether | 11.0 | 0.50 | " | 10.0 | ND | 110 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 11.5 | 0.50 | " | 10.0 | ND | 115 | 70-135 | | | |
| 1,2-Dichloroethane | 13.0 | 0.50 | " | 10.0 | ND | 130 | 70-125 | | | LM |
| Ethanol | 273 | 300 | " | 200 | ND | 136 | 15-150 | | | |
| Ethyl tert-butyl ether | 11.6 | 0.50 | " | 10.0 | ND | 116 | 65-130 | | | |
| Ethylbenzene | 13.9 | 0.50 | " | 10.0 | 2.55 | 114 | 75-120 | | | |
| Methyl tert-butyl ether | 124 | 0.50 | " | 10.0 | 103 | 214 | 50-140 | | | BB |
| Toluene | 11.1 | 0.50 | " | 10.0 | 0.240 | 109 | 75-120 | | | |
| Xylenes (total) | 36.9 | 0.50 | " | 30.0 | 2.76 | 114 | 75-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.68* | | " | *2.50* | | *107* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.94* | | " | *2.50* | | *118* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.50* | | " | *2.50* | | *100* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.72* | | " | *2.50* | | *109* | *60-135* | | | |
| **Matrix Spike Dup (7H24029-MSD1)** | **Source: MQH0422-01** | | | Prepared: 08/24/07 | | Analyzed: 08/25/07 | | | | |
| tert-Amyl methyl ether | 10.4 | 0.50 | ug/l | 10.0 | ND | 104 | 65-135 | 9 | 25 | |
| Benzene | 31.5 | 0.50 | " | 10.0 | 20.5 | 110 | 75-120 | 2 | 20 | |
| tert-Butyl alcohol | 235 | 5.0 | " | 200 | 27.9 | 104 | 60-135 | 2 | 25 | |
| Di-isopropyl ether | 10.2 | 0.50 | " | 10.0 | ND | 102 | 70-130 | 7 | 25 | |
| 1,2-Dibromoethane (EDB) | 10.2 | 0.50 | " | 10.0 | ND | 102 | 70-135 | 12 | 30 | |
| 1,2-Dichloroethane | 12.3 | 0.50 | " | 10.0 | ND | 123 | 70-125 | 6 | 25 | |
| Ethanol | 147 | 300 | " | 200 | ND | 73 | 15-150 | 60 | 25 | BA |
| Ethyl tert-butyl ether | 10.7 | 0.50 | " | 10.0 | ND | 107 | 65-130 | 8 | 25 | |
| Ethylbenzene | 14.0 | 0.50 | " | 10.0 | 2.55 | 114 | 75-120 | 0.4 | 20 | |
| Methyl tert-butyl ether | 112 | 0.50 | " | 10.0 | 103 | 85 | 50-140 | 11 | 25 | BB |
| Toluene | 11.0 | 0.50 | " | 10.0 | 0.240 | 107 | 75-120 | 1 | 25 | |
| Xylenes (total) | 37.4 | 0.50 | " | 30.0 | 2.76 | 116 | 75-130 | 1 | 20 | |
| *Surrogate: Dibromofluoromethane* | *2.56* | | " | *2.50* | | *102* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.72* | | " | *2.50* | | *109* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.44* | | " | *2.50* | | *98* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.69* | | " | *2.50* | | *108* | *60-135* | | | |

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| Stratus Environmental Inc. [Arco] | Project: ARCO #0276, Oakland, CA | MQH0514 |
| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

# Volatile Organic Compounds by EPA Method 8260B - Quality Control
## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 7H28013 - EPA 5030B P/T / EPA 8260B** | | | | | | | | | | |
| **Blank (7H28013-BLK1)** | | | | Prepared & Analyzed: 08/28/07 | | | | | | |
| tert-Amyl methyl ether | ND | 0.50 | ug/l | | | | | | | |
| Benzene | ND | 0.50 | " | | | | | | | |
| tert-Butyl alcohol | ND | 20 | " | | | | | | | |
| Di-isopropyl ether | ND | 0.50 | " | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | " | | | | | | | |
| 1,2-Dichloroethane | ND | 0.50 | " | | | | | | | |
| Ethanol | ND | 300 | " | | | | | | | |
| Ethyl tert-butyl ether | ND | 0.50 | " | | | | | | | |
| Ethylbenzene | ND | 0.50 | " | | | | | | | |
| Methyl tert-butyl ether | ND | 0.50 | " | | | | | | | |
| Toluene | ND | 0.50 | " | | | | | | | |
| Xylenes (total) | ND | 0.50 | " | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *2.24* | | " | *2.50* | | *90* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.34* | | " | *2.50* | | *94* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.33* | | " | *2.50* | | *93* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.07* | | " | *2.50* | | *83* | *60-135* | | | |
| **Laboratory Control Sample (7H28013-BS1)** | | | | Prepared & Analyzed: 08/28/07 | | | | | | |
| tert-Amyl methyl ether | 9.73 | 0.50 | ug/l | 10.0 | | 97 | 65-135 | | | |
| Benzene | 9.89 | 0.50 | " | 10.0 | | 99 | 75-120 | | | |
| tert-Butyl alcohol | 205 | 20 | " | 200 | | 103 | 60-135 | | | |
| Di-isopropyl ether | 10.3 | 0.50 | " | 10.0 | | 103 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 10.3 | 0.50 | " | 10.0 | | 103 | 70-135 | | | |
| 1,2-Dichloroethane | 10.0 | 0.50 | " | 10.0 | | 100 | 70-125 | | | |
| Ethanol | 295 | 300 | " | 200 | | 147 | 15-150 | | | |
| Ethyl tert-butyl ether | 10.2 | 0.50 | " | 10.0 | | 102 | 65-130 | | | |
| Ethylbenzene | 10.3 | 0.50 | " | 10.0 | | 103 | 75-120 | | | |
| Methyl tert-butyl ether | 9.65 | 0.50 | " | 10.0 | | 96 | 50-140 | | | |
| Toluene | 10.1 | 0.50 | " | 10.0 | | 101 | 75-120 | | | |
| Xylenes (total) | 31.6 | 0.50 | " | 30.0 | | 105 | 75-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.38* | | " | *2.50* | | *95* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.37* | | " | *2.50* | | *95* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.36* | | " | *2.50* | | *94* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.38* | | " | *2.50* | | *95* | *60-135* | | | |

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| Stratus Environmental Inc. [Arco] | Project: ARCO #0276, Oakland, CA | MQH0514 |
| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

# Volatile Organic Compounds by EPA Method 8260B - Quality Control

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 7H28013 - EPA 5030B P/T / EPA 8260B** | | | | | | | | | | |
| **Matrix Spike (7H28013-MS1)** | **Source: MQH0518-07** | | | Prepared & Analyzed: 08/28/07 | | | | | | |
| tert-Amyl methyl ether | 9.03 | 0.50 | ug/l | 10.0 | ND | 90 | 65-135 | | | |
| Benzene | 14.2 | 0.50 | " | 10.0 | 5.35 | 88 | 75-120 | | | |
| tert-Butyl alcohol | 194 | 20 | " | 200 | 5.40 | 94 | 60-135 | | | |
| Di-isopropyl ether | 9.30 | 0.50 | " | 10.0 | ND | 93 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 9.35 | 0.50 | " | 10.0 | ND | 94 | 70-135 | | | |
| 1,2-Dichloroethane | 9.44 | 0.50 | " | 10.0 | ND | 94 | 70-125 | | | |
| Ethanol | 262 | 300 | " | 200 | ND | 131 | 15-150 | | | |
| Ethyl tert-butyl ether | 9.29 | 0.50 | " | 10.0 | ND | 93 | 65-130 | | | |
| Ethylbenzene | 12.9 | 0.50 | " | 10.0 | 3.60 | 93 | 75-120 | | | |
| Methyl tert-butyl ether | 14.4 | 0.50 | " | 10.0 | 5.34 | 90 | 50-140 | | | |
| Toluene | 9.18 | 0.50 | " | 10.0 | ND | 92 | 75-120 | | | |
| Xylenes (total) | 28.8 | 0.50 | " | 30.0 | 0.420 | 94 | 75-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.41* | | " | *2.50* | | *96* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.37* | | " | *2.50* | | *95* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.41* | | " | *2.50* | | *96* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.35* | | " | *2.50* | | *94* | *60-135* | | | |
| **Matrix Spike Dup (7H28013-MSD1)** | **Source: MQH0518-07** | | | Prepared & Analyzed: 08/28/07 | | | | | | |
| tert-Amyl methyl ether | 9.23 | 0.50 | ug/l | 10.0 | ND | 92 | 65-135 | 2 | 25 | |
| Benzene | 14.3 | 0.50 | " | 10.0 | 5.35 | 90 | 75-120 | 1 | 20 | |
| tert-Butyl alcohol | 195 | 20 | " | 200 | 5.40 | 95 | 60-135 | 0.6 | 25 | |
| Di-isopropyl ether | 9.42 | 0.50 | " | 10.0 | ND | 94 | 70-130 | 1 | 25 | |
| 1,2-Dibromoethane (EDB) | 9.40 | 0.50 | " | 10.0 | ND | 94 | 70-135 | 0.5 | 30 | |
| 1,2-Dichloroethane | 9.35 | 0.50 | " | 10.0 | ND | 94 | 70-125 | 1 | 25 | |
| Ethanol | 259 | 300 | " | 200 | ND | 130 | 15-150 | 1 | 25 | |
| Ethyl tert-butyl ether | 9.46 | 0.50 | " | 10.0 | ND | 95 | 65-130 | 2 | 25 | |
| Ethylbenzene | 12.1 | 0.50 | " | 10.0 | 3.60 | 85 | 75-120 | 6 | 20 | |
| Methyl tert-butyl ether | 14.4 | 0.50 | " | 10.0 | 5.34 | 91 | 50-140 | 0.6 | 25 | |
| Toluene | 9.28 | 0.50 | " | 10.0 | ND | 93 | 75-120 | 1 | 25 | |
| Xylenes (total) | 26.6 | 0.50 | " | 30.0 | 0.420 | 87 | 75-130 | 8 | 20 | |
| *Surrogate: Dibromofluoromethane* | *2.34* | | " | *2.50* | | *94* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.20* | | " | *2.50* | | *88* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.37* | | " | *2.50* | | *95* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.21* | | " | *2.50* | | *88* | *60-135* | | | |

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| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

# EPA 8010 list Volatile Organic Compounds by EPA 8260B - Quality Control

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 7H24004 - EPA 5030B P/T / EPA 8260B** | | | | | | | | | | |
| **Blank (7H24004-BLK1)** | | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *2.34* | | " | *2.50* | | *94* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.52* | | " | *2.50* | | *101* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.46* | | " | *2.50* | | *98* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.25* | | " | *2.50* | | *90* | *60-135* | | | |
| **Laboratory Control Sample (7H24004-BS1)** | | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| Tetrachloroethene | 10.6 | 0.50 | ug/l | 10.0 | | 106 | 70-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.41* | | " | *2.50* | | *96* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.38* | | " | *2.50* | | *95* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.51* | | " | *2.50* | | *100* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.42* | | " | *2.50* | | *97* | *60-135* | | | |
| **Matrix Spike (7H24004-MS1)** | **Source: MQH0514-01** | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| Tetrachloroethene | 10.5 | 0.50 | ug/l | 10.0 | ND | 105 | 70-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.46* | | " | *2.50* | | *98* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.54* | | " | *2.50* | | *102* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.54* | | " | *2.50* | | *102* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.50* | | " | *2.50* | | *100* | *60-135* | | | |
| **Matrix Spike Dup (7H24004-MSD1)** | **Source: MQH0514-01** | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| Tetrachloroethene | 10.3 | 0.50 | ug/l | 10.0 | ND | 103 | 70-130 | 2 | 25 | |
| *Surrogate: Dibromofluoromethane* | *2.55* | | " | *2.50* | | *102* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.63* | | " | *2.50* | | *105* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.55* | | " | *2.50* | | *102* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.49* | | " | *2.50* | | *100* | *60-135* | | | |

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| Stratus Environmental Inc. [Arco] | Project: ARCO #0276, Oakland, CA | MQH0514 |
| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

## EPA 8010 list Volatile Organic Compounds by EPA 8260B - Quality Control
## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 7H24029 - EPA 5030B P/T / EPA 8260B** | | | | | | | | | | |
| **Blank (7H24029-BLK1)** | | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *2.54* | | " | *2.50* | | *102* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.76* | | " | *2.50* | | *110* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.46* | | " | *2.50* | | *98* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.20* | | " | *2.50* | | *88* | *60-135* | | | |
| **Laboratory Control Sample (7H24029-BS1)** | | | | Prepared & Analyzed: 08/24/07 | | | | | | |
| Tetrachloroethene | 8.84 | 0.50 | ug/l | 10.0 | | 88 | 70-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.70* | | " | *2.50* | | *108* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.95* | | " | *2.50* | | *118* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.43* | | " | *2.50* | | *97* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.45* | | " | *2.50* | | *98* | *60-135* | | | |
| **Matrix Spike (7H24029-MS1)** | **Source: MQH0422-01** | | | Prepared: 08/24/07 Analyzed: 08/25/07 | | | | | | |
| Tetrachloroethene | 10.7 | 0.50 | ug/l | 10.0 | ND | 107 | 70-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.68* | | " | *2.50* | | *107* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.94* | | " | *2.50* | | *118* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.50* | | " | *2.50* | | *100* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.72* | | " | *2.50* | | *109* | *60-135* | | | |
| **Matrix Spike Dup (7H24029-MSD1)** | **Source: MQH0422-01** | | | Prepared: 08/24/07 Analyzed: 08/25/07 | | | | | | |
| Tetrachloroethene | 11.0 | 0.50 | ug/l | 10.0 | ND | 110 | 70-130 | 3 | 25 | |
| *Surrogate: Dibromofluoromethane* | *2.56* | | " | *2.50* | | *102* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.72* | | " | *2.50* | | *109* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.44* | | " | *2.50* | | *98* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.69* | | " | *2.50* | | *108* | *60-135* | | | |

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| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

# EPA 8010 list Volatile Organic Compounds by EPA 8260B - Quality Control

## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 7H28002 - EPA 5030B P/T / EPA 8260B** | | | | | | | | | | |
| **Blank (7H28002-BLK1)** | | | | Prepared & Analyzed: 08/28/07 | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *2.44* | | " | *2.50* | | *98* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.39* | | " | *2.50* | | *96* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.40* | | " | *2.50* | | *96* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.19* | | " | *2.50* | | *88* | *60-135* | | | |
| **Laboratory Control Sample (7H28002-BS1)** | | | | Prepared & Analyzed: 08/28/07 | | | | | | |
| Tetrachloroethene | 11.6 | 0.50 | ug/l | 10.0 | | 116 | 70-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.55* | | " | *2.50* | | *102* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.52* | | " | *2.50* | | *101* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.53* | | " | *2.50* | | *101* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.57* | | " | *2.50* | | *103* | *60-135* | | | |
| **Matrix Spike (7H28002-MS1)** | **Source: MQH0776-01** | | | Prepared & Analyzed: 08/28/07 | | | | | | |
| Tetrachloroethene | 11.0 | 0.50 | ug/l | 10.0 | ND | 110 | 70-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.54* | | " | *2.50* | | *102* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.54* | | " | *2.50* | | *102* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.51* | | " | *2.50* | | *100* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.56* | | " | *2.50* | | *102* | *60-135* | | | |
| **Matrix Spike Dup (7H28002-MSD1)** | **Source: MQH0776-01** | | | Prepared & Analyzed: 08/28/07 | | | | | | |
| Tetrachloroethene | 10.8 | 0.50 | ug/l | 10.0 | ND | 108 | 70-130 | 2 | 25 | |
| *Surrogate: Dibromofluoromethane* | *2.51* | | " | *2.50* | | *100* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.49* | | " | *2.50* | | *100* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.55* | | " | *2.50* | | *102* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.51* | | " | *2.50* | | *100* | *60-135* | | | |

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| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

## EPA 8010 list Volatile Organic Compounds by EPA 8260B - Quality Control
## TestAmerica - Morgan Hill, CA

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 7H28004 - EPA 5030B P/T / EPA 8260B** | | | | | | | | | | |
| **Blank (7H28004-BLK1)** | | | | Prepared & Analyzed: 08/28/07 | | | | | | |
| Tetrachloroethene | ND | 0.50 | ug/l | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *2.20* | | " | *2.50* | | *88* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.01* | | " | *2.50* | | *80* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.40* | | " | *2.50* | | *96* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.15* | | " | *2.50* | | *86* | *60-135* | | | |
| **Laboratory Control Sample (7H28004-BS1)** | | | | Prepared & Analyzed: 08/28/07 | | | | | | |
| Tetrachloroethene | 9.55 | 0.50 | ug/l | 10.0 | | 96 | 70-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.27* | | " | *2.50* | | *91* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *2.12* | | " | *2.50* | | *85* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.40* | | " | *2.50* | | *96* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.27* | | " | *2.50* | | *91* | *60-135* | | | |
| **Matrix Spike (7H28004-MS1)** | **Source: MQH0633-03** | | | Prepared & Analyzed: 08/28/07 | | | | | | |
| Tetrachloroethene | 9.45 | 0.50 | ug/l | 10.0 | ND | 94 | 70-130 | | | |
| *Surrogate: Dibromofluoromethane* | *2.20* | | " | *2.50* | | *88* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *1.99* | | " | *2.50* | | *80* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.41* | | " | *2.50* | | *96* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.21* | | " | *2.50* | | *88* | *60-135* | | | |
| **Matrix Spike Dup (7H28004-MSD1)** | **Source: MQH0633-03** | | | Prepared & Analyzed: 08/28/07 | | | | | | |
| Tetrachloroethene | 10.7 | 0.50 | ug/l | 10.0 | ND | 107 | 70-130 | 12 | 25 | |
| *Surrogate: Dibromofluoromethane* | *2.14* | | " | *2.50* | | *86* | *75-120* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *1.52* | | " | *2.50* | | *61* | *60-125* | | | |
| *Surrogate: Toluene-d8* | *2.43* | | " | *2.50* | | *97* | *80-120* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *2.34* | | " | *2.50* | | *94* | *60-135* | | | |

TestAmerica
ANALYTICAL TESTING CORPORATION

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.testamericainc.com

| | | |
|---|---|---|
| Stratus Environmental Inc. [Arco] | Project: ARCO #0276, Oakland, CA | MQH0514 |
| 3330 Cameron Park Dr., Suite 550 | Project Number: G0C20-0014 | **Reported:** |
| Cameron Park CA, 95682 | Project Manager: Jay Johnson | 08/31/07 13:08 |

**Notes and Definitions**

| | |
|---|---|
| PV | Hydrocarbon result partly due to individ. peak(s) in quant. range |
| LM | MS and/or MSD above acceptance limits. See Blank Spike(LCS). |
| BB | Sample > 4x spike concentration |
| BA | Relative percent difference out of control |
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |

Atlantic Richfield Company
bp
A BP affiliated company

# Chain of Custody Record

**Project Name:** BP 276
**BP BU/AR Region/Enfos Segment:** BP > Americas > West > Retail > CA > Alameda>276
**State or Lead Regulatory Agency:**
**Requested Due Date (mm/dd/yy):**

| | |
|---|---|
| On-site Time: 12:00 | Temp: 56 |
| Off-site Time: 1450 | Temp: 80 |
| Sky Conditions: Clear | |
| Meteorological Events: None | |
| Wind Speed: 0 | Direction: 0 |

| | | |
|---|---|---|
| Lab Name: TestAmerica | BP/AR Facility No.: 276 | Consultant/Contractor: Stratus Environmental, Inc. |
| Address: 885 Jarvis Drive | BP/AR Facility Address: 10600 MacArthur Blvd., Oakland | Address: 3330 Cameron Park Drive, Suite 550 |
| Morgan Hill, CA 95937 | Site Lat/Long: | Cameron Park, CA 95682 |
| Lab PM: Lisa Race | California Global ID #: T0600108312 | Consultant/Contractor Project No.: E276-04 |
| Tele/Fax: 408-782-8156 408-782-6308 (fax) | Enfos Project No.: G0C20-0014 | Consultant/Contractor PM: Jay Johnson |
| BP/AR PM Contact: Paul Supple | Provision or RCOP (circle one) Provision | Tele/Fax: (530) 676-6000 / (530) 676-6005 |
| Address: 2010 Crow Canyon Place, Suite 150 | Phase/WBS: 04-Monitoring | Report Type & QC Level: Level 1 with EDF |
| San Ramon, CA | Sub Phase/Task: 03-Analytical | E-mail EDD To: shayes@stratusinc.net |
| Tele/Fax: 925-275-3506 | Cost Element: 01-Contractor labor | Invoice to: Atlantic Richfield Co. |

**Lab Bottle Order No:** MQH0514

| Item No. | Sample Description | Time | Date | Matrix: Soil/Solid | Matrix: Water/Liquid | Matrix: Air | Laboratory No. | No. of Containers | Preservative: Unpreserved | Preservative: $H_2SO_4$ | Preservative: $HNO_3$ | Preservative: HCl | Preservative: Methanol | Requested Analysis: GRO/BTEX/Oxy* | Requested Analysis: EDB | Requested Analysis: 1,2 DCA | Requested Analysis: Ethanol by 8260 | Requested Analysis: PCE by 8010 | Sample Point Lat/Long and Comments *Oxy = MTBE, TAME, ETBE, DIPE, TBA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-2 | 1425 | 8-14-07 | | X | | 01 | 6 | | | | X | | X | X | X | X | X | |
| 2 | MW-5 | 1415 | " | | X | | 02 | 6 | | | | X | | X | X | X | X | X | |
| 3 | MW-6 | 1326 | " | | X | | 03 | 6 | | | | X | | X | X | X | X | X | |
| 4 | MW-7 | 1305 | " | | X | | 04 | 6 | | | | X | | X | X | X | X | X | |
| 5 | MW-8 | 1355 | " | | X | | 05 | 6 | | | | X | | X | X | X | X | X | |
| 6 | TB - 276 - 81407 | 500 | " | | X | | 06 | 3 | | | | X | | X | X | X | X | X | HOLD |
| 7 | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | |

| | Relinquished By / Affiliation | Date | Time | Accepted By / Affiliation | Date | Time |
|---|---|---|---|---|---|---|
| Sampler's Name: Jerry Gonzales | | | | | | |
| Sampler's Company: Dallas ENV | | | | | | |
| Shipment Date: | | 8/16 | 1540 | | 8/16 | 1540 |
| Shipment Method: | | 8/16 | 1555 | | 8/16 | 1555 |
| Shipment Tracking No: | | 8/16 | 1946 | | 8/16 | 1946 |

**Special Instructions:** Please cc results to: rmiller@broadbentinc.com

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

# TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ARCO 2716
REC. BY (PRINT): DV
WORKORDER: MQH0514

DATE REC'D AT LAB: 8/16/07
TIME REC'D AT LAB: ~~18~~ 45
DATE LOGGED IN: 8/17/07

For Regulatory Purposes?
DRINKING WATER YES / NO
WASTE WATER YES / NO

| CIRCLE THE APPROPRIATE RESPONSE | LAB SAMPLE # | CLIENT ID | CONTAINER DESCRIPTION | PRESERVATIVE | pH | SAMPLE MATRIX | DATE SAMPLED | REMARKS: CONDITION (ETC.) |
|---|---|---|---|---|---|---|---|---|
| 1. Custody Seal(s) Present / (Absent) Intact / Broken* | | | | | | | | |
| 2. Chain-of-Custody (Present) / Absent* | | | | | | | | |
| 3. Traffic Reports or Packing List: Present / (Absent) | | | | | | | | |
| 4. Airbill: Airbill / Sticker (Present) / Absent | | | | | | | | |
| 5. Airbill #: | | | | | | | | |
| 6. Sample Labels: (Present) / Absent | | | | | | | | |
| 7. Sample IDs: (Listed) / Not Listed on Chain-of-Custody | | | | | | | | |
| 8. Sample Condition: (Intact) / Broken* / Leaking* | | | | | | | | |
| 9. **Does information on chain-of-custody, traffic reports and sample labels agree?** (Yes) / No* | | | See COC 8/16/07 DV | | | | | |
| 10. Sample received within hold time? (Yes) / No* | | | | | | | | |
| 11. Adequate sample volume received? (Yes) / No* | | | | | | | | |
| 12. Proper preservatives used? (Yes) / No* | | | | | | | | |
| 13. Trip Blank / Temp Blank Received? (circle which, if yes) (Yes) / No* | | | | | | | | |
| 14. Read Temp: 2-10° Corrected Temp: ↓ Is corrected temp 4 +/-2°C? (Yes) / No** | | | | | | | | |
| (Acceptance range for samples requiring thermal pres.) **Exception (if any): METALS / DFF ON ICE or Problem COC | | | | | | | | |

*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.

**APPENDIX B**

GEOTRACKER UPLOAD CONFIRMATION

# Electronic Submittal Information



## UPLOADING A GEO_WELL FILE

**Processing is complete. No errors were found!**
**Your file has been successfully submitted!**

| | |
|---|---|
| **Submittal Title:** | **3Q07 GEO_WELL 276** |
| **Facility Global ID:** | **T0600100082** |
| **Facility Name:** | **ARCO #0276** |
| **Submittal Date/Time:** | **10/25/2007 10:32:21 AM** |
| **Confirmation Number:** | **5163099527** |

**Back to Main Menu**

# Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been successfully uploaded!

**Confirmation Number:** 8592009782
**Date/Time of Submittal:** 10/25/2007 8:48:45 AM
**Facility Global ID:** T0600100082
**Facility Name:** ARCO #0276
**Submittal Title:** 3Q07 GW Monitoring
**Submittal Type:** GW Monitoring Report

**Click here to view the detections report for this upload.**

**ARCO #0276**
10600 MACARTHUR
OAKLAND, CA 94605

**Regional Board - Case #: 01-0089**
SAN FRANCISCO BAY RWQCB (REGION 2)
**Local Agency (lead agency) - Case #: RO0000831**
ALAMEDA COUNTY LOP - **(BC)**

**NOTE: THIS DATA WAS SUBMITTED AFTER THE SITE WAS CLOSED**

| CONF # | TITLE | QUARTER |
|---|---|---|
| 8592009782 | 3Q07 GW Monitoring | Q3 2007 |

| SUBMITTED BY | SUBMIT DATE | STATUS |
|---|---|---|
| Broadbent & Associates, Inc. | 10/25/2007 | PENDING REVIEW |

## SAMPLE DETECTIONS REPORT

| | |
|---|---|
| # FIELD POINTS SAMPLED | 5 |
| # FIELD POINTS WITH DETECTIONS | 5 |
| # FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL | 5 |
| SAMPLE MATRIX TYPES | WATER |

## METHOD QA/QC REPORT

| | |
|---|---|
| METHODS USED | 8260FA,8260TPH,SW8260B |
| TESTED FOR REQUIRED ANALYTES? | Y |
| LAB NOTE DATA QUALIFIERS | Y |

## QA/QC FOR 8021/8260 SERIES SAMPLES

| | |
|---|---|
| TECHNICAL HOLDING TIME VIOLATIONS | 0 |
| METHOD HOLDING TIME VIOLATIONS | 0 |
| LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT | 0 |
| LAB BLANK DETECTIONS | 0 |
| DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING? | |
| - LAB METHOD BLANK | Y |
| - MATRIX SPIKE | N |
| - MATRIX SPIKE DUPLICATE | N |
| - BLANK SPIKE | Y |
| - SURROGATE SPIKE | Y |

## WATER SAMPLES FOR 8021/8260 SERIES

| | |
|---|---|
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | Y |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% | Y |
| SURROGATE SPIKES % RECOVERY BETWEEN 85-115% | N |

| | |
|---|---|
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% | Y |

## SOIL SAMPLES FOR 8021/8260 SERIES

| | |
|---|---|
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135% | n/a |
| MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30% | n/a |
| SURROGATE SPIKES % RECOVERY BETWEEN 70-125% | n/a |
| BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130% | n/a |

## FIELD QC SAMPLES

| SAMPLE | COLLECTED | DETECTIONS > REPDL |
|---|---|---|
| QCTB SAMPLES | N | 0 |
| QCEB SAMPLES | N | 0 |
| QCAB SAMPLES | N | 0 |